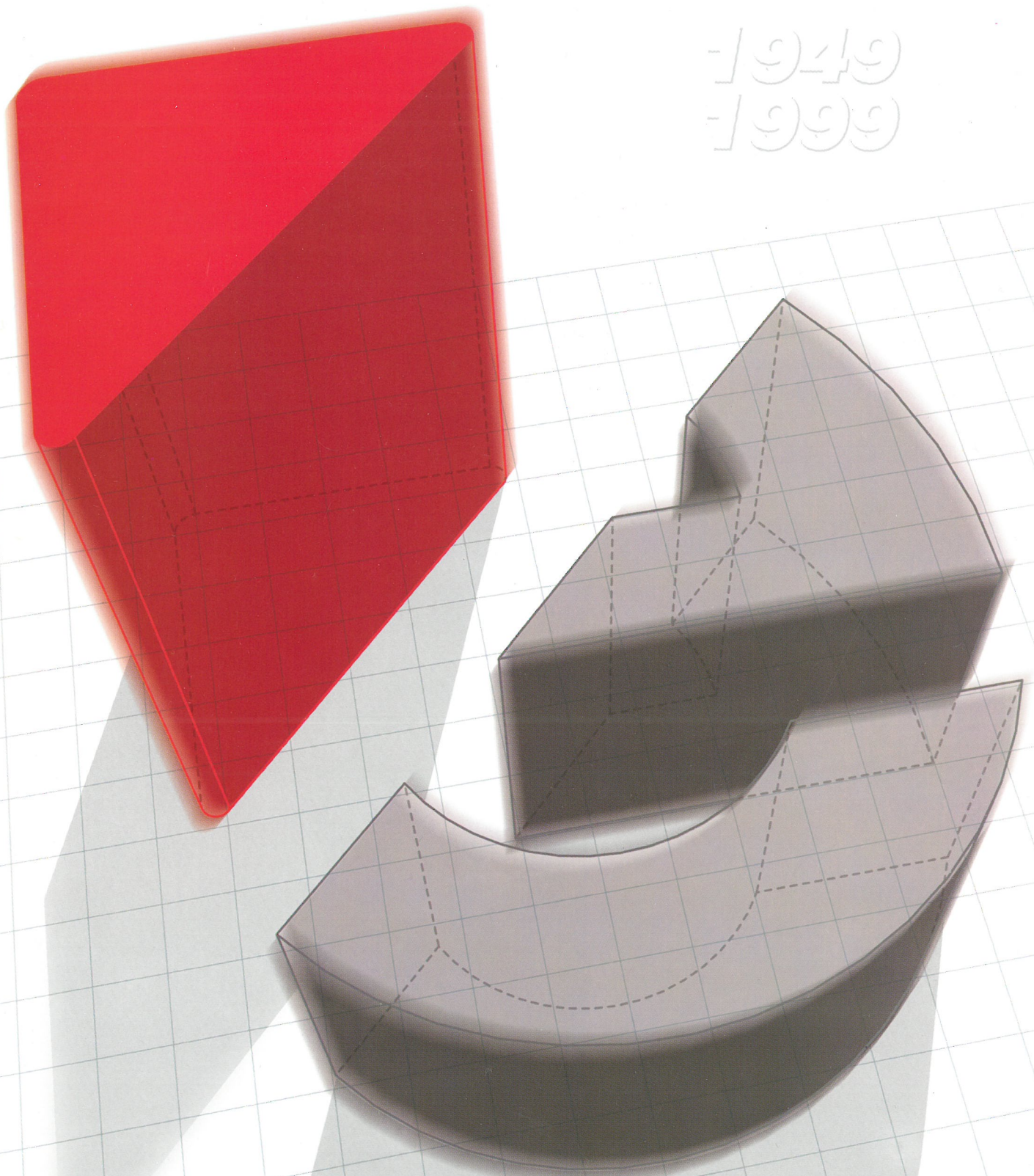


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elektroprojekt







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Uvodna riječ glavnog direktora

Obljetnice su uvijek prigoda za prisjećanje na učinjeno u proteklom vremenu, trenutak za sažimanje rezultata rada i pogled u budućnost. Pedeset godina je mnogo u životu čovjeka, a zasigurno i u životu jedne tvrtke.

Elektroprojekt je tvrtka čija se osnovna djelatnost uvijek temeljila na intelektualnim uslugama njezinih stručnjaka koji su uz pomoć ostalih zaposlenika projektirali raznovrsne objekte, savetovali investitore, vodili i nadzirali izgradnju te ih pratili u radu. Jednom riječju aktivno su sudjelovali i sudjeluju u svim fazama stvaranja i života nekog objekta. Mислеći na sve te ljude koji su u svemu sudjelovali, te svojim znanjem i radom ostvarili niz velikih objekata u zemlji i inozemstvu, i one buduće, koji bi trebali nastaviti njihov rad, stvarana je ova knjiga. Rad većine od njih opisan je u njoj. Učinjeno je to s najboljom željom da sve značajno bude spomenuto. Od mnoštva objekata i poslova na kojima se radilo prikazani su samo neki, budući da za mnoge ne postoje fotografije prikladne za objavljivanje. Prikazano ipak daje dobar uvid u djelovanje Elektroprojekta od njegovih početaka, u doba velike elektrifikacije i industrijalizacije na ovim prostorima, do današnjih vremena izgradnje energetske i ostalih objekata uz poštovanje visokih ekoloških standarda.

Objekti na kojima se radilo ili se radi, uvijek su bili, jesu ili će biti u vezi s prirodom i čovjekovom okolinom. Smješteni su u prirodni ambijent, koriste prirodne izvore za stvaranje drugih za čovjeka vrijednih dobara ili svojim djelovanjem utječu na prirodu i čovjekovu okolinu. O ovim, osobito u današnje vrijeme, vrlo osjetljivim pitanjima stručnjaci Elektroprojekta morali su uvijek voditi računa kao sudionici u izgradnji mnogih objekata. To je i razlog, da se i ovdje u ovom prigodnom trenutku prisjetimo uspješnih rješenja koja su stručnjaci Elektroprojekta primijenili u rješavanju ovakvih problema.

Presudan događaj u razvitku Elektroprojekta dogodio se nakon osamostaljenja države Hrvatske i prelaska na

Prologue by the General Manager



An anniversary is traditionally an occasion when one reflects upon that which has been done, a time when past performance is appraised and the future envisioned. Fifty years is a long time in the life of a man, and equally so in the life of any company.

Elektroprojekt has always based its core activity on rendering the intellectual services of its experts who, supported by other employees, have performed design engineering, consultancy, construction management and supervision assignments on numerous diverse projects, including the monitoring of such projects in operation. They have actively participated in every stage of the creation of projects and have followed them throughout their lifetime. The present publication was prepared keeping in mind all those whose expertise and experience made it possible to carry out many a major project both at home and abroad, as well as those to come, and to continue their work. It was prepared with the best of intentions to reflect all that has been important. However, it necessarily had to be limited to those projects and activities lending themselves to proper presentation. Nevertheless, this is an excellent overview of Elektroprojekt's activities from its beginnings - the era



tržišno gospodarstvo. Elektroprojekt je uspješno transformiran iz tadašnjeg društvenog poduzeća u dioničko društvo u kojem većina dioničara potječe iz redova sadašnjih i bivših zaposlenika. Na taj su način mnogi zaposlenici Elektroprojekta postali i njegovi suvlasnici.

Elektroprojekt će se i dalje razvijati radeći u okviru svoje sadašnje djelatnosti, ali i tražeći načine da tu djelatnost proširi i na nova područja. Pri tome će se stalno ustrajati na daljnjem povišenju razine kvalitete svih obavljenih poslova. Za postignuće tog cilja potreban će biti stručan i predan rad današnjih i budućih zaposlenika. Kao poticaj i inspiracija za takav rad neka posluži i ova knjiga.

Glavni direktor

Kruno Galić, dipl. ing.

of intensive electrification and industrialization in these parts of the world, up to the present day - construction of power generation and other facilities, conforming to the most stringent environmental standards.

The projects in which Elektroprojekt has been involved have always been, and always will be, related to nature and the environment. They are located in natural surroundings, use natural resources to produce goods meeting the needs of man and, consequently, have an effect on nature and the environment. These sensitive issues have always received the consideration they deserve by Elektroprojekt's experts in the implementation of their projects, and we should take this opportunity to remember the successful solutions that these professionals have applied in their work.

Elektroprojekt experienced a major breakthrough after Croatia became independent and had moved to a market economy. Elektroprojekt was successfully transformed from what was then a socially owned enterprise into a shareholder company, in which the majority of shares are held by its former and present employees and who have thus become co-owners of Elektroprojekt.

Elektroprojekt will further extend its existing activities, while seeking ways to diversify and remaining committed to continuous improvement in the quality of its services. In achieving these objectives the professionalism and dedication of its present and future employees are vitally important factors. This publication has been prepared in order to encourage and inspire such efforts.



Odnos EPZ-a prema prirodi, u funkciji koristi za čovjeka	<i>Elektroprojekt's Approach to Nature, for the Benefit of Mankind</i>
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Odnos Elektroprojekta prema prirodi, u funkciji koristi za čovjeka

Klasične i neoklasične ekonomske teorije pretpostavljaju da nema fizičkih granica proizvodnje i potrošnje ili da su te granice dovoljno daleko. Zadnjih desetljeća svjedoci smo da to više nije tako. U tom smislu važan je kontrast mikroekonomske i makroekonomske teorije. U mikroekonomiji rast proizvodnje (i potrošnje) moguć je i poželjan do točke kada su granične koristi jednake graničnim troškovima. U makroekonomskoj teoriji obično nema koncepta optimalne veličine za dulje vrijeme, već je veće uvijek bolje. Taj pristup često zanemaruje ekološke i socijalne troškove uz visoku i rastuću potrošnju prirodnih resursa po čovjeku.

Sadašnji način vrednovanja investicijskih projekata zanemaruje ili podcjenjuje dugoročne ekološke troškove i dobitke u korist kratkoročnih koristi i troškova. Diskontirani budući troškovi i koristi mogu odvratiti od investicije s dugoročnim koristima, a promicati investicije s dugoročnim troškovima. To je posebno izraženo kod kapitalnih infrastrukturnih i hidroenergetskih objekata kod kojih su početna ulaganja velika, troškovi pogona i održavanja mali - dobiti su sigurne, ali se ostvaruju tijekom duga niza godina.

Najmanji standard sigurnosti ili najmanji ekološki standard jest metodologija donošenja odluke u svezi s utjecajem na okoliš koja se malo, ili se uopće nije primjenjivala u analizama koristi i troškova. Najmanji ekološki standard jest neekonomski kriterij koji se u okviru nekog projekta mora ispuniti. Razvio se u inženjerstvu, zdravstvu i u svezi sa sigurnošću u industriji.

VODA I ENERGIJA - JAVNA DOBRA

Brzim razvojem ljudskog društva, koji se ogleda u povećanju broja stanovnika i kakvoće života, posebno u posljednje vrijeme, potreba za vodom, hranom i energijom

Elektroprojekt's Approach to Nature, for the Benefit of Mankind

According to classic and neo-classic economic theories, the physical boundaries to production and consumption are either non-existent or they are sufficiently removed so as not to pose a problem. In recent decades we have learned that this is not so. It is within that context that micro-economic and macro-economic theories differ largely. From the aspect of micro-economy the growth of production (and consumption) is possible and desirable to the point where marginal benefit equals marginal costs. Macro-economic theory does not usually contain the concept of optimum value over an extended period of time; here, bigger is always better. Such an approach frequently disregards environmental and social costs, combined with high and ever-growing consumption of natural resources per capita.

The present evaluation method of investment projects disregards, or underestimates, long-term environmental costs and gains, opting instead for short-term costs and benefits. Future discounted costs and benefits can divert from an investment bringing long-term benefits, while at the same time promoting investments involving long-term costs. This element is particularly prominent in capital infrastructural and hydro-energy facilities where the initial investments are high, where operating and maintenance costs are small and where profits are guaranteed but realised over an extended period of time.

The minimum standard of safety, or the lowest environmental standard, is the methodology of decision-making in relation to impact on the environment which has seen little or indeed no application in the analyses of costs and benefits. The minimum environmental standard is the non-eco-



jom postaje sve veća. Zadovoljavanje sve većih potreba ostvaruje se iskorišćivanjem prirodnih resursa, pri čemu današnje spoznaje upozoravaju da je donedavno poticana upotreba pojedinih resursa zanemarivala posljedice te upotrebe na druge resurse, pa čak i na njih same. Nepoželjne posljedice takva razvoja ljudskog društva uzrokovale su nove potrebe - potrebe očuvanja resursa i okoliša, te su upozorile na nužnost svestranog i cjelovitog pristupa u rješavanju problema daljnjeg razvoja ljudskog društva. Takav je razvoj održivi razvoj u kojem se zadovoljavaju ljudske potrebe uz prihvatljivo djelovanje na prirodu i okoliš na takav način da se time omogućava sljedećim generacijama zadovoljenje istih potreba.

Voda je, kao što je poznato, temelj života na zemlji, nezamjenjiv, obnovljiv ali i osjetljiv resurs. Voda se s jedne strane koristi za niz ljudskih aktivnosti (vodno gospodarstvo), ali je s druge strane ugrožen resurs djelovanjem mnogih ljudskih djelatnosti koje nisu neposredno vezane uz vode, već vode zagađuju i time mijenjaju njezinu vrijednost kao osnovnoga životnog resursa.

Isto tako, upotreba energije prisutna je u svim dijelovima modernoga gospodarstva i društva. Energija je ulaz za sva proizvodna dobra. Svojim dominantnim oblikom, naftom, vitalno utječe na međunarodne odnose što su jasno pokazale dvije energetske krize u bliskoj prošlosti. Značenje električne energije, kao jednog od oblika energije, sve je veće. Potražnja za električnom energijom u zemljama u razvoju brzo raste zbog gospodarskog razvoja i industrijalizacije. Međutim, udio elek-

troničnog energije ima sve veći udio u ukupnoj potrošnji energije. Ekonomski kriterij koji mora biti zadovoljen unutar okvira određenog projekta. Ovaj kriterij je razvijen i implementiran u područjima inženjeringa, zdravstvene zaštite i industrijske sigurnosti.

WATER AND ENERGY - PUBLIC GOODS

The rapid development of human society, reflected in population growth and in the quality of life, particularly of late, has also resulted in an increased demand for water, food and energy. These ever-increasing demands are met by exploitation of natural resources. However, experience to date cautions that, until recently, the encouraged exploitation of individual resources ignored the possible consequences that such exploitation inflicts on other resources, including the already utilised resources themselves. The undesirable consequences of such progress have given rise to a new requirement - that of preserving resources and the environment and have underscored the necessity for an all-embracing and comprehensive approach in dealing with the predicament of human society's further progress. This progress must be based on sustainable development, where the needs of humankind are met but where the resulting impact on both nature and environment is acceptable, and ensures the fulfilment of the same needs for future generations.

As we all know, water is the source of all life on Earth, irreplaceable, renewable, but vulnerable. On the one hand, it is utilised in a whole range of human activities (water resources management), while on the other it is a resource which in itself is endangered through countless human activities which, although not directly linked to it, do result in its pollution, thereby jeopardising its value as the fundamental resource of life.

Just like water, the use of energy is present in every segment of modern economies and societies. Energy is input in the production of goods. Its dominant form today, oil, has a crucial influence on international relations - as the two recent energy crises so clearly manifested. The impor-



trične energije u ukupno utrošenoj energiji u porastu je i u razvijenijim zemljama Zapada.

Današnje suvremene ekonomije razlikuju tržišna i javna dobra. Javna su ona dobra koja su dostupna svima, kao što su zrak i rijeke. Međutim, javna dobra ne određuje samo njihova priroda. To su ona dobra, čija ponuda nije određena tržištem - iako se plaćaju - već civilizacijskom razinom i odlukom države da budu dostupna svima, kao što su pitka voda, kanalizacija, ceste. Tako su javna dobra i voda i energija.

ENERGIJA, GOSPODARSKI RAST I ODRŽIVI RAZVITAK

Danas važni energetske izvori uglavnom su neobnovljivi (iscrpivi) resursi. Usto, upotreba danas važnih energetskih resursa glavni je izvor onečišćenja. Rašireno je mišljenje da je racionalizacija energije u suprotnosti s ostvarenjem materijalnih ciljeva (prihoda). Također je dokazana jaka veza između potrošnje energije i bruto nacionalnog proizvoda u dosadašnjim gospodarskim sustavima razvijenih i nerazvijenih zemalja.

Projekti proizvodnje energije uobičajeno su veliki, s dugim vremenom realizacije i duga vijeka trajanja. Zbog toga je ispravna energetska strategija temelj planiranja budućnosti i nacionalnog razvoja. Bruto nacionalni proizvod (BNP), jedan od pokazatelja koji se temelji na standardnim nacionalnim obračunima, nastao sredinom ovog stoljeća, može poslužiti za mnoge svrhe, ali nije



tance of electric energy, as one of the forms of energy, is increasing. Demand for electric energy in developing countries is rising rapidly due to general economic growth and industrialisation. Furthermore, the participation of electric energy in the overall amount of energy used is also on the increase in the more developed countries of the West.

Contemporary economies differentiate between the market goods and public goods. Public goods are those accessible to everybody, such as air and rivers. However, public goods are not defined solely by their nature. They are, in fact, goods the supply of which is not defined by the market - although they are being paid for - but by the civilizational level and a decision made by a state that they be available to all, such as potable water, sewers, roads. Consequently, water and energy are also public goods.

ENERGY, ECONOMIC GROWTH AND SUSTAINABLE DEVELOPMENT

The important energy sources of today stem mostly from non-renewable resources. Additionally, the utilisation of those same resources constitutes the main source of pollution. It is generally believed that energy conservation conflicts with the realization of material aims (revenues). A strong link between energy consumption and GNP has also been established in the existing economic systems of both developed and under-developed countries.

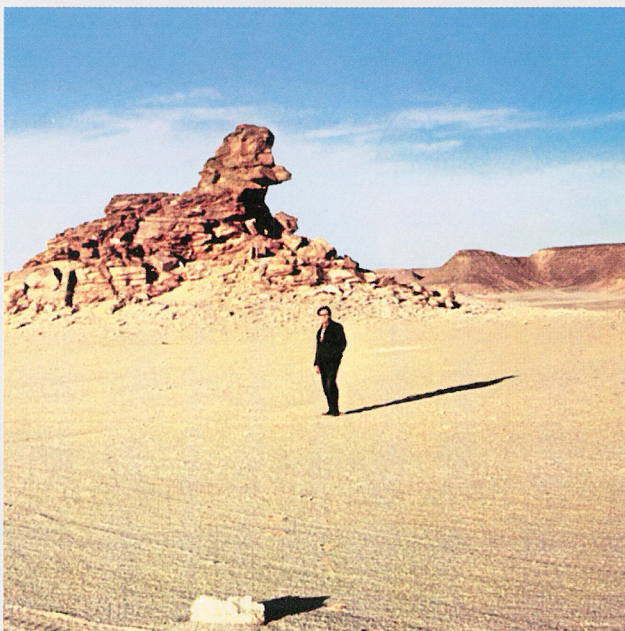
Energy production projects are usually large scale, have a long implementation period and a protracted lifetime. A sound energy strategy is, therefore, the foundation on which future national developments are planned. GNP, one of the indicators based on the standard national accounts, established in the middle of this century, can be useful for many purposes, but it is not suitable as an economic indicator of sustainable development. Not only does it not include indicators of environmental damage or depletion of natural resources; it also presents the economic activity



prikladan kao gospodarski pokazatelj održivog razvoja. Ne samo što ne sadrži pokazatelje ekoloških šteta ili iscrpljivanja prirodnih resursa, nego se gospodarska aktivnost potrebna za sanaciju nastalih šteta prikazuje kao doprinos ekonomskom blagostanju. Zbog toga je razvijen obračun koji popravljajući BNP, a nazvan je indeks održivoga gospodarskog blagostanja - ISEW. Dok BNP neke zemlje raste, ISEW u istom razdoblju ostaje nepromijenjen zahvaljujući gubitku "kapitala prirode", učincima zagađenja, troškovima nastalim kiselim kišama i zdravstvenim troškovima uzrokovanim povećanim onečišćenjima.

ZAŠTITA OKOLIŠA

Prema preporukama raznih programa djelovanja u zaštiti okoliša, državama danas stoje na raspolaganju brojne mogućnosti provedbe programa i ulaganja u pothvate koji osiguravaju i gospodarske dobitke i dobitke za okoliš. Ti programi uključuju ukidanje subvencija koje potiču prekomjernu upotrebu fosilnih goriva i vode u industriji, poljoprivredi i kućanstvima. Ujedno, uključuju ulaganja u štednju energije i vode, tehnologije koje upotrebljavaju malu količinu sirovina i stvaraju malu količinu otpada. Institucionalni mehanizmi zasnovani na tržišnim načelima, kao što su kazne za onečišćenje, porezi na vrstu goriva i programi pologa i povrata, mogu pomoći kod postizanja željenih razina kakvoće okoliša uz znatno manje troškove nego što su troškovi tradicionalnih pristupa temeljenih na odredbama.



required to repair that damage as a contribution to economic wealth. Hence, the new method of calculation, which adjusts GNP and which is known as ISEW (index of sustainable economic wealth). While the GNP of a country is growing, its ISEW for the same period remains unchanged due to the loss of "nature capital", effects of pollution, expenses caused by acid rain and health-care costs resulting from any increase in pollution.

ENVIRONMENTAL PROTECTION

According to recommendations contained in various programmes of activities designed to protect the environment, countries today have at their disposal a choice of programmes to implement and enterprises in which to invest, which ensure gains both for the economy and the environment. These programmes include abolition of subsidies, which encourage excessive use of fossil fuels and water in industry, agriculture and in households. They also include investment in conservation of energy and water, in technologies which utilise small quantities of raw materials and which create small amounts of waste. The institutionalised mechanisms based on market principles - such as fines levied for pollution of the environment, taxes imposed on particular types of fuel, programmes of deposit and return - can be helpful in achieving desired levels of environmental quality at considerably lower costs than are the costs of traditional approaches based on regulatory measures.

Today, it has also become apparent how essential it is to involve the local population in both the process of decision-making and the implementation of such decisions, which ultimately have to be arrived at on the basis of comprehensive and careful comparisons between investments and effects.

In order to assist decision-makers in properly assessing existing advantages, it is vital to accelerate the exchange of research results, information and educational programmes. Research programmes will ever increasingly be directed at the conditions of specific segments of the environment in particular regions, and at finding economically viable ways of reducing emissions of



Jednako tako danas se zna da je nužno uključiti stanovništvo regije, putem sudionništva, u proces donošenja odluka i provedbu rješenja, a da konačne odluke treba donositi na temelju pažljivih usporedbi ulaganja i učinaka.

Također je nužna veća razmjena rezultata istraživanja, programa obrazovanje i informacija, kako bi se donositeljima odluka pomoglo pri pravilnom određivanju prednosti. Istraživanja će se sve više usmjeravati na stanja specifičnih dijelova okoliša regija i pronalaženje ekonomičnih načina smanjenja emisija zagađivala zraka i vode iz industrijskih pogona, te načine očuvanja biološke raznolikosti.

Pronalaženje, provedba i financiranje rješenja u zaštiti okoliša zahtijeva uspostavu partnerstva. Također, prijenos znanja i čistih tehnologija zahtijeva snažnu suradnju Istoka i Zapada, između europskih zemalja, unutar samih zemalja, između gradova, institucija i poduzeća.

PRISTUP PLANIRANJU ENERGETSKIH I INFRASTRUKTURNIH OBJEKATA

Pri planiranju velikih energetske objekata uzima se u obzir činjenica da su glavni energetske izvori uglavnom neobnovljivi i nejednoliko raspoređeni po svijetu, a i rast tzv. minimalnog ekološkog standarda - uvjeta koji se moraju ispuniti bez obzira na troškove. Uočene su poteškoće u vrednovanju ekoloških posljedica izgradnjom velikih objekata, a i dosadašnja ograničenja gospodarskog (monetarnog) vrednovanja. Naime, klasične i neoklasične ekonomske teorije kod kojih je gospodarski rast neograničen, a resursi neiscrpivi, ne objašnjavaju društvene fenomene odnosa prema okolišu koji su zadnjih 20 godina sve izraženiji.

U okviru pristupa rješavanju energetske i infrastrukturnih sustava vodi se računa o političkoj i inženjerskoj isključivosti u prošlosti koja je zanemarivala socijalne i ekološke kriterije ulaganja. Zbog toga je, kao i zbog neupućenosti šire javnosti u stvarnu situaciju u području voda, energije i resursa općenito, prisutan snažan otpor ostvarenju većih infrastrukturnih objekata. Zato treba u projekt uključivati sve zainteresirane korisnike u ranim fazama razvoja projekta, uspostaviti otvoren i jasan proces donošenja odluka. Važno je podrobnije obrađivati

pollutants into air and water from industrial plants, as well as finding ways of preserving biological diversity.

Identification, implementation and financing of solutions aimed at protecting the environment all require partnership. They also require transfer of know-how and clean technologies, which in turn demands vigorous co-operation between East and West, among European countries, towns, institutions and, indeed, among companies.

APPROACH TO THE PLANNING OF ENERGY AND INFRASTRUCTURAL FACILITIES

In planning large scale energy facilities, one has to take into account the fact that the main energy sources are, in the main, non-renewable and haphazardly distributed around the world, and also the rise of the so-called minimum environmental standard - conditions which have to be met regardless of cost. Certain difficulties have been encountered in the process of evaluating the environmental consequences of the construction of large facilities, one of, which involves the limitations posed by existing economic (monetary) evaluation. In other words, classic and neo-classic economic theories, which take economic growth to be limitless and resources inexhaustible, fail to explain the social phenomenon of the attitude taken towards the environment, something that has been growing in prominence over the last 20 years.

Within the framework of dealing with the problem related to the energy and infrastructural systems, attention is paid to the political and engineering exclusivity, which, in the past took no account of the social and environmental criteria of such investment. Such behaviour, combined with a general lack of insight into the real situation regarding water, energy and resources, has led to a strong resistance to realisation of major infrastructural facilities among the general public. It is therefore essential that all interested users be involved in a project in the initial phases of its development, so as to establish an open and



dijelove projekata koji se odnose na okoliš kao i razumljivije prikazivati i obrazlagati projekte javnosti. Jednako tako, nužno je uzeti u obzir najniže troškove, uključujući kriterije okoliša i društva, kao i držati se zadanih ograničenja sa stajališta zaštite okoliša.

Svjedoci smo svjetskih problema, a to su emisije "plinova staklenika", klimatske promjene, prebrzo iscrpljivanje neobnovljivih prirodnih dobara, kao i sve većih zahtjeva za povećanjem energetske učinkovitosti i zaštitom okoliša.

Konačno rješenje složena energetskog i infrastrukturnog sustava rezultat je dugotrajna procesa rada i uključuje određen broj odluka koje se donose u različitim fazama projekta i na različitim razinama. Rad planera i projekatana na planiranju takva sustava izložen je neprekidnoj kontroli i interakciji društva. To se ostvaruje zajedničkim, timskim radom stručnjaka iz raznih područja. Kontrola i interakcija društva ostvaruje se i zakonskom regulativom (suglasnosti, dozvole, mišljenja, uvjeti uređenja, studije utjecaja, javne rasprave), javnim medijima, ali i odlukama državnih organa najviše razine. Osnovica vrednovanja rješenja jest cjelokupni sustav vrijednosti društva koji se primjenjuje kroz kriterije i mjerila.

GOSPODARSKE RAŠČLAMBE - NAČIN VREDNOVANJA

Gospodarskim raščlambama pokazuje se da se nekim predloženim projektom postiže najbolja upotreba resursa i najveća korist u odnosu na troškove. Budući da se gospodarskim raščlambama razmatraju ne samo gospodarski elementi već i elementi zaštite okoliša, održivog razvoja, nacionalne strategije, stanja resursa, utjecaja na društvo i drugo, katkad se zovu i društveno-gospodarske raščlambe.

S gospodarskim raščlambama najbliže su vezane tzv. analize koristi i troškova. To je uobičajeni postupak za ocjenu investicijskih projekata naročito sa stajališta društva kao cjeline (gospodarske raščlambe), a ne sa stajališta odgovornih za donošenje odluke o projektu (financijske raščlambe). Dakle, uobičajeno je da se analiza koristi i troškova odnosi na društveno vrednovanje projekta.

Razlike između gospodarskih i financijskih raščlambi

above-board decision making procedure. That is why it is so important to deal in greater detail with those segments of a project related to the environment, as well as to present and explain overall projects to the public in a transparent and comprehensible manner. It is equally important to take into account the lowest costs, inclusive of environmental and social criteria, and to adhere to given limitations with regard to protection of the environment.

At this point in time we are witnessing worldwide problems, such as the emissions of the "greenhouse gases", climate changes, rapid depletion of non-renewable natural resources, as well as an ever-increasing demand for an increase in energy efficiency and environmental protection.

The final solution of a complex energy and infrastructural system is the result of a long-term work process which involves a certain number of decisions made at different phases of the project, and at different levels. The work of the planners and project designers of such a system is subject to ongoing control and proactive involvement of the society. This is realised through joint teamwork by experts from various fields, as well as by legislative regulation (approvals, permits, opinions, planning conditions, public debates), not only through the public media, but also by decisions adopted at the highest State levels. The basis on which a given solution is evaluated is the overall system of social values, which is applied through criteria and standards.

ECONOMIC ANALYSES - METHOD OF EVALUATION

Economic analyses demonstrate how a certain proposed project achieves the best possible utilisation of resources and the highest benefits in relation to cost. Bearing in mind that economic analyses consider not only the economic elements, but also the elements of environmental protection, sustainable development, national strategy, available resources, influence on society and other aspects, they are sometimes termed socio-economic analyses.



nastaju zbog toga što se u gospodarskim raččlambama projekti analiziraju sa stajališta društva u cjelini, a u financijskim sa stajališta pojedinca, domaćinstva ili tvrtke. Tako se u prvima vrednuje neto promjena blagostanja, a u drugima se vrednuje neto promjena u novčanom dobitku.

Uobičajeni rezultati i pokazatelji analize koristi i troškova jesu: omjer koristi i troškova, sadašnja vrijednost razlika koristi i troškova te interna stopa povrata. U vrednovanju državnih i regionalnih infrastrukturnih objekata najmjerodavniji je gospodarski pokazatelj sadašnja vrijednost razlika ukupnih koristi i troškova ili sadašnja vrijednost neto koristi.

Koristi se mogu izračunati na više načina, izravno i neizravno. Izravno se određuju preko jedinične cijene i količine proizvodnje. Neizravno se koristi određuju preko vrijednosti izbjegnutih šteta, odnosno šteta koje bi nastale zbog toga što razmatrani objekt nije bio izgrađen ili utvrđivanjem troškova zamjenjujućeg rješenja. Zamjenjujuće rješenje drugi je objekt (alternativa) koji bi se trebao sagraditi u slučaju da se ne gradi razmatrani objekt i koji ispunjava iste ciljeve.

Sa stajališta zaštite okoliša, analize koristi i troškova mogu imati određene nedostatke, ali još uvijek su korisne u vrednovanju ciljeva vezanih za okoliš. Umjesto da je odbace, ekolozi inzistiraju na uzimanju u obzir svih troškova okoliša i društva. Analize koristi i troškova posebno su korisne sa stajališta zaštite okoliša ako uključuje minimalni ekološki (sigurnosni) standard.

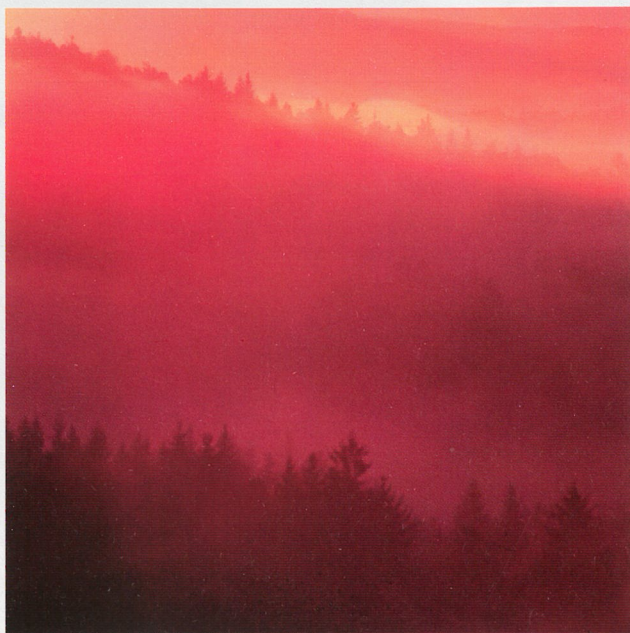
Most closely linked to economic analyses are the so-called cost-benefit analyses. This is an accepted method of assessment of investment projects, particularly from the aspect of society as a whole (economic analysis), rather than from the aspect of those responsible for making decisions regarding a particular project (financial analyses). It is therefore customary for the cost-benefit analysis to relate to the social evaluation of any project.

Differences between economic and financial analyses arise from the fact that economic analyses analyse projects from the aspect of society as a whole, while financial analyses do so from the aspect of the individual, a household or a company. Thus, the former evaluate the net change in wealth, while the later assesses the net change in any monetary gain.

The conventional results and indicators in cost-benefit analysis are the cost-benefit ratio, net present value, and the internal rate of return. In the process of assessing State and regional infrastructural facilities, the most relevant economic indicator is the net present value, or the current value of net benefits.

Benefits can be calculated in a number of ways, directly and indirectly. Directly, they are determined on the basis of a unit price and production quantity. Indirectly, the benefits are determined on the value of avoidable losses, or rather, losses which would have been incurred due to the considered project not having been constructed, or by establishing the costs of an alternative solution. The alternative solution is another facility which fulfils the same aims and which would have to be constructed in the event that the project under consideration is not.

From the aspect of environmental protection, cost-benefit analyses can possess certain shortcomings, but they are still useful in assessing aims related to the environment. Instead of rejecting them, ecologists insist that they take into account all costs linked to the environment and the society. The cost-benefit analyses are particularly useful from the aspect of environmental protection if the minimum environmental (safety) standards



Temeljno je pitanje: treba li današnje društvo (ili koje društvo) žrtvovati materijalnu potrošnju da bi poboljšalo blagostanje u budućnosti? Cijene energije, danas, ne prate stvarne troškove i vanjske utjecaje, ali će uskoro odražavati pune ekološke i ekonomske troškove. Reforme energetske politike nastoje da se postojeći porezi ravnopravnije podijele, da se ukinu subvencije, te da se troškovi upotrebe prirodnih dobara uključe u cijene robe i usluga.

ZA KRAJ

Planiranje i izgradnja infrastrukturnih objekata provodi se u okviru uređenja, zaštite, te upotrebe voda i zemljišta. To je pitanje globalnog planiranja razvoja i budućnosti regije i države. Na rješavanje problema u području voda, tla, pa tako i prirode, najveći utjecaj ima čovjek i njegovim se djelovanjem mogu postići željeni učinci održivog razvoja.

Takvi energetske i infrastrukturni sustavi dio su strateškog razvoja države pa ih se sagledava i rješava povezivanjem svih interesa cjelovito i svestrano. Ciljevi izgradnje velikih infrastrukturnih objekata jesu povećanje blagostanja društva, a ne povećanje prihoda pojedinca ili poduzeća. U tom smislu koristi su ne samo novčani dobitak, već bilo koji oblik zadovoljstva društvene zajednice. Uspoređujući druga rješenja, oni jedini potiču svekoliki i dugoročni razvoj i blagostanje u okvirima nacionalnih interesa pa ih se ne smije prepuštati mehanizmima tržišta i ciljevima privatnoga kapitala.

form an integral part.

The fundamental question to be asked is: should the society of today (or indeed, any other society) sacrifice its material consumption in order to enhance its wealth in the future? Today, energy prices do not match real costs and external factors, but they will soon reflect full environmental and economic costs. Reforms of energy policies are endeavouring to distribute available taxes more evenly, to abolish subsidies, and to include the costs of utilisation of natural resources into the prices charged for goods and services.

CONCLUSION

Planning and construction of infrastructural facilities is conducted within the framework of planning, protection and utilisation of water and land. This is the predicament of planning of development and the future of a region and a state, but on a global level. Man bears the greatest influence on dealing with the problems of water, soil - and therefore of nature, and it is therefore through man's activities that the highest levels of the desired effects of sustainable development can be achieved.

Energy and infrastructural systems are an integral part of the strategic development of a State, and as such they are considered, and dealt with, by linking all the interests in a comprehensive and all-embracing manner. The aims of constructing large-scale infrastructural facilities are to increase the wealth of society, and not the revenue of an individual or a company. Accordingly, the benefits gained are not only monetary ones, but also any other form of contentment of a community. Compared with other solutions, these aims are the only ones that promote an all-encompassing and long-term development, and state of well being, within the boundaries of national interests, and must not be surrendered to the mechanisms of the market and the aims of private capital.

The complexity of the process of management and decision making in the area of utilisation of water and land, of sources of energy, of protection of water, soil and air, has become apparent



Uočena je složenost procesa upravljanja i donošenja odluka u području upotrebe voda, zemljišta, izvora energije, zaštite voda, tla i zraka, te potreba stalnog proučavanja, praćenja i poboljšanja kako zamisli tako i izvedenih rješenja. U tom bi smislu unapređenje postojećih ili razvijanje novih metoda vrednovanja energetskih, odnosno infrastrukturnih objekata, znatno poboljšalo kvalitetu donošenja odluka o redoslijedu izgradnje mogućih i planiranih rješenja.

U Elektroprojektu, kao i općenito u Hrvatskoj, postoje ljudski potencijali, oprema i iskustvo kojima se ovakvi objekti mogu ostvariti, kao i kontinuitet znanja kojim se mogu definirati najbolja rješenja u skladu s razvojnim planovima.

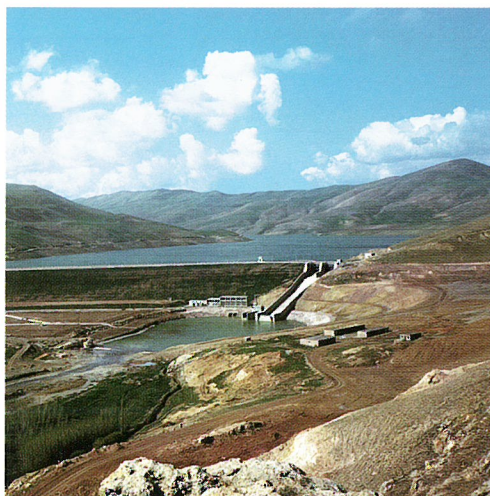
Z. Mahmutović

to all, as has the need for constant research, monitoring and improvement of both the concepts and projects. On these lines, the improvement of the existing or development of new, evaluation methods of energy and infrastructural projects would in turn greatly improve the quality of decision making with regard to the sequence of construction of possible and planned facilities.

Elektroprojekt (as indeed does Croatia as a whole) possesses the human potential, equipment and experience to ensure the realisation of such projects, as well as a continuity of know-how, which allows us to readily identify the most favourable solutions in concord with development plans.







1.

Povijest osnutka
Elektroprojekta

*History of
Elektroprojekt*



2.



Povijest osnutka Elektroprojekta

Navesti bitne podatke o nastanku poduzeća tako specifične djelatnosti kakvu obavlja Elektroprojekt nije jednostavno i ne treba ih vezati samo na jedan kalendarski događaj.

Djelatnost posvećena elektrifikaciji i to još izgradnji izvora električne energije, zahtijeva da se u kronologiji događaja započne s 1937. godinom, kada je Banovina Hrvatska osnovala Banovinsko električno poduzeće (BEP) za razvoj elektrifikacije u Hrvatskoj.

Već tada u BEP-u, u grupi za projektiranje HE Vinodol, započinju rad prvi budući uvaženi stručnjaci Elektroprojekta.

Godine 1941. BEP postaje Državno električno poduzeće (DEP), ali započinje rat.

Velike potrebe za energijom nakon ratnih razaranja, veliki hidroenergetski i termoeenergetski potencijali, čekali su stručnjake da započnu projektiranje svih vrsta elektroenergetskih objekata.

Godine 1945. formirano je Elektrotehničko poduzeće Hrvatske (ELPOH), a grupa za projektiranje hidroelektrana prelazi u novoosnovano poduzeće za projektiranje i građenje hidroelektrana Hidroelektra, gdje se nastavlja rad na započetom projektu HE Vinodol.

Time se stvara jezgra današnjeg Elektroprojekta. Osnivanjem Inženjerskoga projektnog zavoda (IPZ) siječnja 1948., projektanti iz Hidroelektre prelaze u novoosnovano poduzeće u kojem čine Odjel za hidroelektrane s ukupno 16 ljudi, od čega su 9 inženjeri.

Vlada FNRJ rješenjem od 12. III. 1949. osniva poduzeće za projektiranje hidroelektrana i istražne radove, pod imenom Hidroelektroprojekt s filijalama u glavnim gradovima svih republika, osim Crne Gore.

1. XI.1949. čitava projektantska grupa za hidroelek-

History of Elektroprojekt

Providing basic information about the creation of a company engaged in activities as specific as is Elektroprojekt's, is no simple undertaking; neither can it be linked to a single calendar event.

The activity related to electrification and, to be more specific, to the construction of sources of electric energy, demands that the chronology of events commences as long ago as 1937, when the Banate of Croatia founded the Banate Electric Company (BEP) whose task it was to develop the electrification of Croatia.

It was in BEP, in its group for development of HPP Vinodol design, that the first respected experts of what was eventually to become Elektroprojekt began their work.

In 1941, BEP became the State Company for Electricity (DEP), but then began the Second World War.

Massive energy demand following large-scale destruction caused by the war, and the huge hydro-energy and thermal energy potentials, waited for experts to begin designing all types of electric energy facilities.

In 1945, ELPOH (Electro-technical Company of Croatia) was founded, and a group of hydro-energy plant project designers moved to Hidroelektra, a company involved in the design and construction of hydroelectric power plants, which continued the work already started on HPP Vinodol.

This was the creation of the nucleus of today's Elektroprojekt. When the Design Engineering Institute (IPZ) was founded in January 1948, the project designers from Hidroelektra joined the new company, where they formed the Department for Hydroelectric Power Plants, numbering a total of sixteen persons, nine of whom were graduate engineers.

In accordance with a ruling dated 12 March 1949, the



3.



trane prelazi iz IPZ-a u Hidroelektroprojekt - Zagreb gdje ima poslovnu zadaću obavljati projektiranje hidroelektrana i tehnički nadzor na teritoriju NR Hrvatske. Na taj dan dolazi do stvarnoga osamostaljivanja novoga poduzeća, iako je prvi namještenik upisan u matičnu knjigu Hidroelektroprojekta već 1. IV. 1949. i počeo raditi u njemu. Usvajajući sve te činjenice, 1. IV. 1949. smatra se danom osnivanja Elektroprojekta.

Rješenjem od 24. VIII. 1950. predmet je poslovanja "izrada svih vrsta projekata za izgradnju HE, tehnički nadzor nad izvršenjem projekata, prethodni istražni radovi i davanje tehničkih konzultacija i ekspertiza".

Rješenjem Vlade FNRJ od 31. III. 1951. poduzeće Hidroelektroprojekt prelazi iz savezne nadležnosti u

Government of the Federal People's Republic of Yugoslavia founded a company for design of hydroelectric power plants and related investigations, known as Hidroelektroprojekt, with branch offices in the capital cities of all the republics, with exception of Montenegro.

On 1 November 1949, the whole group for HPP projects designs moved from IPZ to Hidroelektroprojekt, Zagreb, where its task was to provide project designs for hydroelectric power plants, as well as technical supervision throughout the territory of the People's Republic of Croatia. This was the day when the newly formed company went truly independent, although the first employee had been entered into the central register of Hidroelektroprojekt as early as 1 April 1949, and had, in fact, started working. Taking all that into account, 1 April 1949 is regarded as the date that Elektroprojekt was founded.

The ruling of 24 August 1950 specified company activity as "the development of all types of designs for the construction of HPPs, technical supervision of realisation of projects, preliminary investigations, and provision of technical consultations and expert analyses".

In accordance with the ruling dated 31 March 1951, issued by the Government of the People's Republic of Yugoslavia, the company was transferred from federal authority to the authority of the People's Republic of Croatia.

On 8 April 1951, Hidroelektroprojekt was merged with the Zagreb group, Termoelektroprojekt, and the group for transformer stations design. The company's scope of activities was expanded to include the design of all types of electric energy facilities and plants.

In accordance with the ruling dated 6 February 1952, issued by the Government of the People's Republic of Croatia, the company's name Hidroelektroprojekt was changed to Elektroprojekt, a company for the design of electric power plants, Zagreb.

Up until 1953, the company worked only on the home market, providing project designs for hydroelectric power plants, thermal power plants, transformer stations, and conducting investigations and studies relevant to those projects. In 1954, Elektroprojekt made its

4.





5.

republičku.

8. IV.1951. Hidroelektroprojektu se pripaja zagrebačka grupa Termoelektroprojekt i grupa za projektiranje trafostanica, pa se proširuje program poslovanja na projektiranje svih elektroenergetskih objekata i postrojenja. Rješenjem Vlade NRH od 6. II. 1952. poduzeće mijenja naziv u Elektroprojekt, poduzeće za projektiranje elektroenergetskih postrojenja, Zagreb.

Do 1953. godine poduzeće djeluje isključivo na domaćem tržištu - na projektiranju hidroelektrana, termoelektrana, trafostanica i na odgovarajućim istražnim i studijskim radovima. Godine 1954. Elektroprojekt je učinio prve korake u svojoj djelatnosti u inozemstvu (Burma). Od 28. I. 1955. poduzeće je registrirano i za vanjskotrgovačke poslove izvođenja investicijskih rado-



6.

first forays into foreign markets, beginning with Burma. From 28 January 1955 the company was also registered for dealings on foreign markets in the field of investment works. From that time onwards, Elektroprojekt has developed a wide scope of activities in providing services in countries abroad, particularly in the developing countries (Burma, Ethiopia, Egypt, Iran, Libya, Algeria, and India), but also in Greece, Spain and the USA.

In order to advance the design services for water structures, Elektroprojekt has organised its own hydro-technical laboratory, which began operations in 1953. Over the course of the next ten years, forty-eight models were tested for the requirements of design of hydro-electric power plants and other water structures. The expansion of the premises for hydraulic tests, and the increased number of personnel at the Faculty of Civil Engineering, encouraged Elektroprojekt to close its laboratory and to join forces with the Faculty laboratory, thus continuing the close co-operation.

In 1957, the company again expanded the scope of its activities, this time to all types of water structures, as well as to studies into the utilisation of nuclear energy, and that scope of activities has continued to this day. From the professional aspect, from that time onwards Elektroprojekt has been organised into four technical bureaux.

From the sixteen employees with which the company began in 1948, its manpower figure grew to 154



7.

va u inozemstvu. Od tada do danas Elektroprojekt je razvio široku djelatnost u pružanju usluga u inozemstvu, posebno u zemljama u razvoju (Burma, Etiopija, Egipat, Iran, Libija, Alžir, Indija), ali i u Grčkoj, Španjolskoj i SAD-u.

Radi unapređenja projektiranja hidroobjekata, Elektroprojekt je izgradio vlastiti hidrotehnički laboratorij koji je počeo s radom 1953. godine. Tijekom 10 godina rada ispitano je 48 modela za potrebe projektiranja hidroelektrana i drugih vodoprivrednih objekata. Povećanjem prostora za hidraulička ispitivanja te povećanjem kadrovskih potencijala na Građevinskom fakultetu, laboratorij Elektroprojekta prestaje s radom i udružuje svoja sredstva s laboratorijem Fakulteta, čime je nastavljena suradnja.

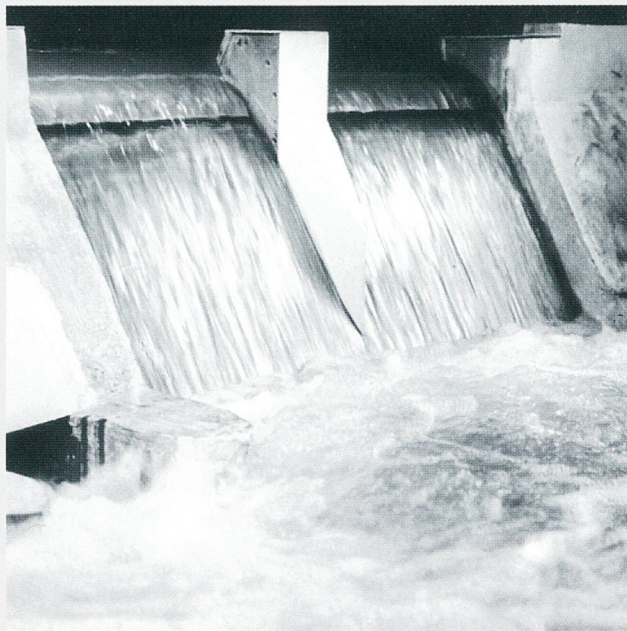
U 1957. godini poduzeće proširuje svoju djelatnost na sve vrste vodograđevina i na studije iskorištenja nuklearne energije. Ovim djelatnostima poduzeće se bavi i danas. Prema strukovnom djelovanju poduzeće je već tada bilo organizirano u četiri tehnička biroa.

Od 16 zaposlenika, s kojima je 1948. godine započeo rast poduzeća, potkraj 1955. Elektroprojekt raste na 154 zaposlenika. Nakon toga poduzeće ima nešto sporiji kadrovski uspon od 200 do 340 zaposlenih, a trenutačno ima oko 200 zaposlenih, od kojih je preko stotinu visokokvalificiranih inženjera raznih struka i specijalnosti.

Posljednju veliku promjenu doživio je Elektroprojekt nakon osamostaljenja države Hrvatske i prelaska na tržišno gospodarstvo, kada je iz društvenog poduzeća uspješno pretvoren u trgovačko društvo. Elektroprojekt je 12. X. 1992. registriran kao dioničko društvo u kojemu su većinski vlasnici današnji i bivši namještenici.

Elektroprojekt je aktivno sudjelovao u pripremama za izgradnju NE Krško te je nakon njezina puštanja u pogon radio na njezinu održavanju i sudjelovao u mnogim modifikacijama postrojenja. Zbog toga od puštanja elektrane u pogon ima u Krškom stalnu skupinu zaposlenika specijaliziranih za rad na nuklearnom području. Osamostaljivanjem države Slovenije javila se potreba za osnivanjem poduzeća za obavljanje opisanih poslova sukladno pravnom sustavu države Slovenije. Na taj je način ispostava Elektroprojekta u Krškom prerasla 1998. u tvrtku NUKEL d.o.o.

Z. Keglević



8.

towards the end of 1955. In the next phase, the number of employees grew at a slower rate, rising from 200 to 340, while today Elektroprojekt has a work force of 200, more than one hundred of whom are highly qualified engineers of various profiles and specialisations.

Elektroprojekt underwent its most recent major transformation after Croatia gained its independence, opting for a market economy approach. The company was successfully transformed from a socially owned company into a shareholder company. Since 12 October 1992, Elektroprojekt has been registered as a shareholder company in which the majority of shareholders comprise its current and former employees.

Elektroprojekt has taken an active part in preparatory works for the construction of the Krško Nuclear Power Plant and, following its commissioning, it has continued to work on its maintenance, as well as participating in many of the modifications. In fact, from the time the NPP was commissioned, Elektroprojekt has had a group of its employees, specialised in work on nuclear power plants, permanently on station in Krško. With the creation of the independent state of Slovenia, the need arose for the formation of a company that would perform such activities in accordance with the legal system of Slovenia, and in 1998 the Elektroprojekt representation office in Krško was transformed into NUKEL d.o.o.



9.

1. Višenamjenski objekt Mahabad	1. <i>Mahabad Multipurpose River Basin Development Scheme</i>
2. Brana Lokvarka	2. <i>Lokvarka Dam</i>
3. TE Plomin 1	3. <i>Plomin 1 Thermal Power Plant</i>
4. TS Katarina u Rijeci	4. <i>Katarina Substation in Rijeka</i>
5. Rasklopno postrojenje HE Zakučac	5. <i>Zakučac Hydroelectric Power Plant switchyard</i>
6. Izgradnja kanala za navodnjavanje	6. <i>Irrigation canal construction</i>
7. Kanal za navodnjavanje u funkciji	7. <i>Irrigation canal in operation</i>
8. Ispitivanje brane Prančevići u hidrotehničkom laboratoriju	8. <i>Prančevići Dam testing in hydro-technical laboratory</i>
9. TE-TO Zagreb	9. <i>Zagreb Cogeneration Plant</i>





1.

Prvi zaposlenici i
radni zadaci

*The First
Employees and
the Initial
Operational
Tasks*



2.



Prvi zaposlenici i radni zadaci

Malu skupinu za projektiranje hidroelektrana možemo pratiti već od prvih dana nakon završetka Drugoga svjetskog rata. Rad na projektu HE Vinodol, započet još 1938. godine, uz izmijenjenu koncepciju rješenja, nastavila je spomenuta skupina 1945. u okviru generalne direkcije Elektroprivrede NRH. Od 1. travnja do studenog 1946., u novoosnovanom poduzeću za građenje i projektiranje, skupina od 12 članova izradila je generalni projekt HE Vinodol, a započela je i neke druge studije i projekte (Zavrelje, Ozalj, Cetina). U siječnju 1948., sada već ekipa od 16 suradnika iz građevinskog poduzeća Hidroelektre, prelazi u Inženjerski projektni zavod, a iz njega u Hidroelektroprojekt.

Treba spomenuti da je ta ekipa inženjera i tehničara preuzela i razradila projekte HE Vinodol i HE Zavrelje kao prve hidroelektrane izgrađene nakon završetka Drugoga svjetskog rata i ugradila svoje znanje, iskustvo i entuzijizam u temelje razvoja današnjeg Elektroprojekta, a time i domaćeg razvoja inženjerske prakse.

Pothvat projektiranja i izgradnje HE Vinodol i HE Zavrelje, a poslije i drugih hidroelektrana, značajno je utjecao na razvoj industrije energetske i hidromehaničke opreme te na razvoj građevinarstva, uključujući i montažnu djelatnost.

Među 16 stručnjaka toga pothvata, koji su bili preteče današnjeg Elektroprojekta, točnije njegova Odjela za hidroelektrane, pod vodstvom tada mladog inženjera Mladena Žugaja, treba istaknuti ljude koji su dugi niz godina pridonosili razvoju Elektroprojekta. To su uz prof. dr. Mladena Žugaja i Milan Mrvoš, prof. Marko Čalogović, Antun Krušlin, Zdenko Schwartz, Boris Pavlin, od kojih su mnogi više od 30 godina aktivno radili u Elektroprojektu. Među pionirima Elektroprojekta bili su još: Fedor Jelušić, Luka Mladineo, Mirko Sever,

The First Employees and the Initial Operational Tasks

The small group of people engaged in the project design of hydroelectric power plants can be followed from the first days immediately following the end of World War II. Activities on the HPP Vinodol project, begun in 1938, were continued by the same group in 1945, although to an altered conceptual design and within the general directorate of the Power Board Industry of the then People's Republic Croatia. Within the newly formed company for project, construction and design, a group of twelve individuals took about six months (i.e. from 1 April to November of 1946) to produce a general design for HPP Vinodol, as well as commencing certain other studies and projects (Zavrelje, Ozalj, Cetina). In January 1948, the then team of sixteen workers moved from the Hidroelektra construction company to the Design Engineering Institute and from there, to Hidroelektroprojekt.

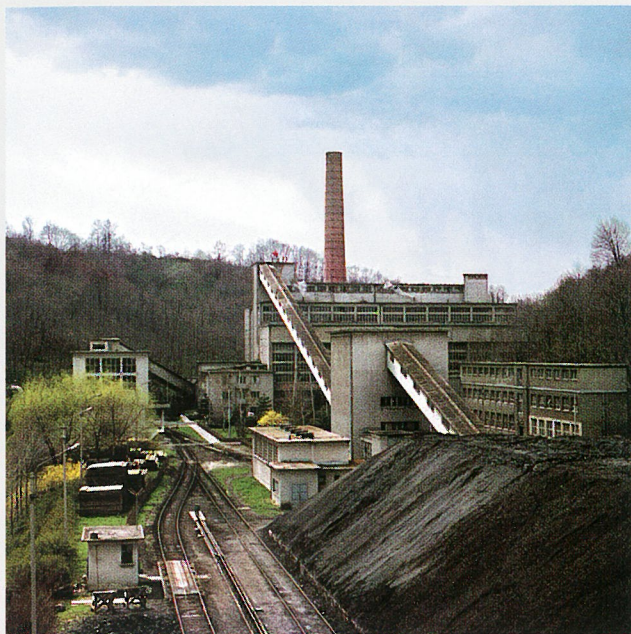
It should be pointed out that this team of engineers and technicians took over and elaborated the designs for HPP Vinodol and HPP Zavrelje, as the first hydroelectric power plants to be built after World War II, and had transposed their know-how, experience and enthusiasm into the foundations of today's Elektroprojekt, and consequently into the development of local engineering practice.

The efforts invested in the design and construction of HPP Vinodol and HPP Zavrelje, and subsequently other HPPs, has had a strong influence on the advance of the power generation and hydro-mechanical equipment industry, as well as on the development of the construction industry, including erection activities.

Among the sixteen individuals who carried off that enterprise, and who were the predecessors of today's Elektroprojekt, or rather its Hydroelectric Power Plants Department, led by Mladen Žugaj, then a young aspir-



3.



Ladislav Ulrich, Ante Skare, prof. Antun Stepinac i Stjepan Reštarović.

Drugu skupinu stručnjaka, koji su stvarali temelje razvoja naše energetike i Elektroprojekta, predstavljaju inženjeri za područje termoelektrana, te distributivnih i prijenosnih sustava.

Grupu za termoelektrane kao dio Termoelektroprojekta predvodio je, u to vrijeme jedan od najpoznatijih termičara u našoj zemlji, Juraj Mihajlov, a nastavio Ante Gačina, da bi se u Elektroprojektu na toj jezgri razvio današnji Strojarsko-tehnološki biro, specijaliziran za termotehničke procese. Ova je grupa započela svoj rad s projektom proširenja termoelektrane na ugljen Vlačka u Raši. Sljedeći termoenergetski objekt projektiran u Elektroprojektu jest termoelektrana na ugljen Jertovec. Nakon toga, na inicijativu stručnjaka Elektroprojekta, projektirana je, a potom i izgrađena, termoelektrana-toplana Zagreb kao osnova budućem toplinarstvu grada Zagreba.

Grupu za prijenosne sustave i distributivne mreže u samom je početku predvodio Blaž Uzelac, a nakon njega u kraćem periodu Ljudevit Matjan. Dolaskom Krunoslava Begovića za rukovoditelja ona je prerasla u biro, preteču današnjeg Elektro-mehaničkog biroa.

S. Tomić, M. Šimunić, T. Jančijev

ing engineer, we have to make mention of the those who, over many years, contributed to the growth of Elektroprojekt: Professor Dr. Mladen Žugaj, Milan Mrvoš, Professor Marko Čalogović, Antun Krušlin, Zdenko Schwartz, Boris Pavlin - some of whom continued to work in Elektroprojekt for 30 years or more. Other pioneers of the company were: Fedor Jelušić, Luka Mladineo, Mirko Sever, Ladislav Ulrich, Ante Skare, Professor Antun Stepinac, and Stjepan Reštarović.

Another group of experts, who laid the foundations for the development of our energy industry, and therefore of Elektroprojekt, were engineers specialising in thermal power plants, distribution and transmission systems.

The thermal power plant group, as a constituent part of Termoelektroprojekt, was at that time headed by the one of the country's best-known experts in thermal energy, Juraj Mihajlov. His task was to be assumed by Ante Gačina. It is from that nucleus that today's Mechanical and Process Engineering Department - specialising in thermal processes - within Elektroprojekt grew. That group began its work on the project for expansion of the Vlačka coal-powered power plant in Raša. The next thermal power unit to be designed in Elektroprojekt was the Jertovec coal-fired power plant. This was followed by the Zagreb cogeneration plant, initiated, designed and constructed as the foundation for the future district heating system in the City of Zagreb.

The Transmission Systems and Distribution Networks Group was initially headed by Blaž Uzelac who was succeeded for a brief period of time by Ljudevit Matjan. With Krunoslav Begović as its head, it turned into the predecessor of the today's Electro-Mechanical Engineering Department.

1. Strojarnica HE Vinodol	1. Vinodol Hydroelectric Power Plant power house
2. prof. Stepinac drži govor na desetoj obljetnici	2. Professor Stepinac delivers his speech at the 10 th anniversary
3. TE Jertovec na ugljen	3. Coal-fired Jertovec Thermal Power Plant



Organizacijski oblici Elektroprojekta	<i>Organisational forms of Elektroprojekt</i>
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Glavni direktor i Kolegij direktora u vrijeme izgradnje nove
poslovne zgrade, slijeva na desno:
N. Branković, Z. Keglević, J. Matijašević, K. Galić,
D. Kuštrak, D. Pavlović, I. Gojčeta

*General Manager and management Council during the
new office building construction, from left to right:*



Organizacijski oblici Elektroprojekta

Početna organizacijska forma Elektroprojekta postavljena je u zagrebačkoj filijali Hidroelektroprojekta 1949. godine s tri brigade, i to:

- Kraška polja sa sjedištem u Splitu,
- Kupa sa sjedištem u Zagrebu i
- Vinodol sa sjedištem u Crkvenici.

Naziv brigada ubrzo je promijenjen u grupa.

Godine 1950. u grupama, nazvanim po objektima, radi 50-ak projektanata.

Organizacijska forma dobiva nov oblik pripajanjem termogrupa i trafostanica 1951., a broj zaposlenih prelazi stotinu. Osnivaju se odjeli za hidroelektrane, termoelektrane i trafostanice, kao osnovna organizacijska shema koja se zadržala prvih desetak godina.

Godine 1952. Elektroprojekt, poduzeće za projektiranje elektroenergetskih postrojenja, čine Hidrobiro, Termobiro, Biro za transformatorske stanice, Biro za opće poslove, Knjigovodstvo, Računovodstvo i Kopiraonica, a broji oko 130 projektanata i pratećeg osoblja.

Proširenje djelatnosti i potrebe suvremenog načina poslovanja tražili su novu organizacijsku formu i uvođenje specijalističkih struka u postojeću organizaciju.

Godine 1962. Elektroprojekt čini 6 tehničkih biroa: Hidrobiro, Elektrobiro, Strojarski biro, Arhitektonski biro, Statički biro i Geodetski biro, te Komercijalni biro, Knjigovodstvo i Računovodstvo, Biro za opće poslove i Kopiraonica. Zaposleno je oko 165 ljudi.

Organizacijski oblik jedinstvene tvrtke s podjelom na strukovne jedinice - biroe i službe, zadržan je cijelo vrijeme.

Organisational forms of Elektroprojekt

The initial organisational form of Elektroprojekt, constituting three brigades, was devised in the Zagreb branch office of Hidroelektroprojekt in 1949:

- Karst fields - with its seat in Split;*
- Kupa - with its seat in Zagreb and*
- Vinodol - with its seat in Crkvenica.*

However, the title brigade was soon changed to group.

In 1950, there were approximately fifty design engineers working in these groups, named after the projects on which they were working.

The organisational form changed in 1951, when thermal power station and transformer station groups joined Hidroelektroprojekt, the number of employees then exceeding one hundred. The basic organisational chart, which was in effect for the next ten years, constituted the newly formed departments for hydroelectric power plants, thermal power plants, and transformer stations.

In 1952, Elektroprojekt, a company for design of power generation plants, comprised the following: Hydro Department, Thermal Department, Transformer Stations Department, Corporate Services Department, Bookkeeping Service, Accounting Service and Photocopying. Employees numbered approximately 130 design engineers and support staff.

The expansion of activities, and the need to adopt contemporary methods of conducting business operations, demanded new organisational forms and specialised professions to be introduced into the existing organisation.

In 1962, Elektroprojekt comprised six technical departments: Hydro Department, Electrical Department, Mechanical Engineering Department, Architectural Department, Statics Department, and Land Surveying



Promjene zakonske regulative utjecale su na nazive, ali je uvijek zadržan oblik upravljanja s jednog mjesta, s jednim glavnim direktorom i jednim računom. Tako i 1972. Elektroprojekt, poduzeće za projektiranje i konzultantske usluge u području energetske i industrijske postrojenja i vodogradnje, u svojem sastavu nema osnovnih organizacija udruženog rada i ne udružuje se u druge organizacijske oblike. Unutarnja organizacija ostaje po biroima i službama, čiji se broj i naziv tijekom vremena mijenja.

Godine 1965. spajanjem nastaje Arhitektonsko-statički biro, a poslije se također spajaju i službe te mijenjaju nazive. Organizacijski oblici rada na velikim objektima u zemlji i inozemstvu prilagođuju se specifičnim uvjetima, osnivaju se radne jedinice i grupe, ali ne mijenja se osnovna organizacijska forma poduzeća. Broj zaposlenih u stalnom je porastu i osamdesetih godina iznosi 230.

Godine 1984. spajanjem nastaje Arhitektonsko-konstruktorski i geodetski biro, a 1986. spajaju se sve službe u Biro zajedničkih službi.

Iste godine proširuje se djelatnost i nov naziv tvrtke glasi - Elektroprojekt, radna organizacija za konzulting usluge u području energetike, vodoprivrede, industrije, građevinarstva, prometa, veza i informatike. Broj zaposlenih prelazi 300, a 1987. osniva se novi tehnički biro - Informatičko-dokumentacijski biro.

Godine 1989. tvrtka je registrirana pod nazivom Elektroprojekt, poduzeće za inženjering.

12. X. 1992. Elektroprojekt upisuje promjenu oblika organiziranja pretvorbom, te od toga dana djeluje kao dioničko društvo. Unutarnja organizacija utvrđena je Pravilnikom temeljenim na Statutu društva, po kojem biroi i službe i danas čine organizacijske jedinice društva.

Z. Keglević

Department. They were supported by the Commercial Department, Bookkeeping and Accounting Service, Corporate Services Department and Photocopying. The company then had a staff of 165.

The organisational form of integrated company split into professional units - departments and services - was retained throughout.

The changes that occurred in legislative regulations influenced the names of the units, but the principle of central control with one general manager and one account, remained unchanged. Consequently, in 1972 Elektroprojekt, a company for design and consulting services in the field of power generation and industrial plants and water structures, had no basic organisation of associated labour within its organisation, and did not join other organisational forms. Internal organisation remained in the form of departments and services, the number and name of which changed as time went on.

In 1965, the Architectural and Statics Department was created through a merger of forces. Later on, individual services were also merged and their names changed. The organisational forms of work on major projects at home and abroad were adjusted to specific conditions and work units and groups were created as the need arose, but the basic organisational form of the company remained unchanged. The number of employees was constantly rising, and by the 1980s it reached 230.

In 1984, another merger resulted in the creation of the Architectural and Structural Engineering and Land Surveying Department, and in 1986 all services were amalgamated, to become the Corporate Services Department.

That same year the scope of activities was again expanded, the new name of the company being: Elektroprojekt, a work organisation for consulting services in the field of the power generation, the water resources management, civil engineering, transport, communications and information systems. The number of employees then exceeded 300. In 1987, a new technical department was formed - the Information Systems and Documentation Management Department.

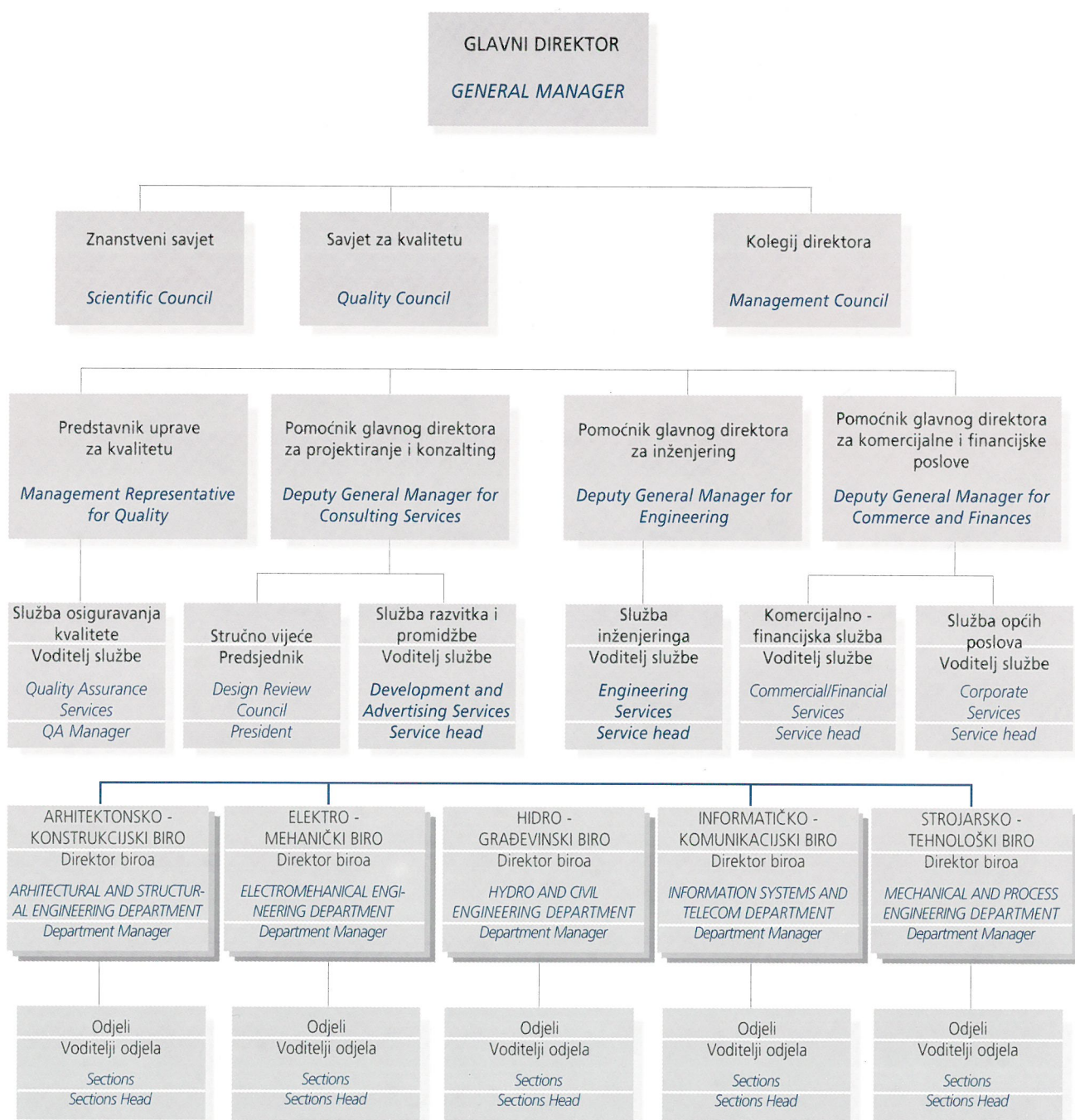
In 1989, the company was registered under the name: Elektroprojekt, Consulting Engineers.



On 12 October 1992, Elektroprojekt registered the change of its organisational form, resulting from transformation, and from that day onwards it has operated as a shareholder company. Internal organisation is defined by the Policies and Procedures, based on the Company Articles of Association, according to which departments and services constitute the company's organisational units.

ORGANIZACIJSKA SHEMA DANAŠNJEG ELEKTROPROJEKTA

ORGANIZITONAL CHART OF ELEKTROPROJEKT TODAY







Glavni direktori Rukovoditelji i direktori organi- zacijskih jedinica Ključni stručnjaci- prije i sada Popis zaposlenika	<i>General Managers Managers of Organisational Units Former and pre- sent Specialists Occupying Key Posts Roll of Employees</i>
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Glavni direktori Elektroprojekta

General Managers of Elektroprojekt

Ružić, Živko, direktor, viši industrijski tehničar (Split, 3. XII. 1924 - ?). Završio srednju tehničku školu. Nakon osnivanja saveznog poduzeća Hidroelektroprojekt s filijalama u Beogradu, Zagrebu, Ljubljani, Sarajevu i Skoplju, biva postavljen 1. VI. 1949. za njegova prvog direktora. Na ovom je mjestu ostao samo oko godinu dana. Filijala Hidroelektroprojekta u Zagrebu pravni je prednik budućega samostalnog poduzeća Elektroprojekt.

Petričić, Živko, direktor, viši građevinski tehničar (Otočac, 31. V. 1910 - ?). Završio srednju tehničku školu. U filijali Hidroelektroprojekta u Zagrebu zaposlen od 1. III. 1950. i ubrzo zatim postavljen za direktora filijale. Za vrijeme njegova mandata ova filijala postaje 1951. samostalno poduzeće kojemu se pridružuje filijala Termoelektroprojekta u Zagrebu. Novo poduzeće za projektiranje hidroenergetskih i termoeenergetskih objekata mijenja 6. II. 1952. ime u Elektroprojekt. U dokumentima stoji da je obavljao dužnost direktora novonastalog Elektroprojekta od 12. IV. 1952. do 7. IX. 1953., iako je prema matičnoj knjizi iz poduzeća otišao već 1. V. 1952.

Glavočić, Ivo, generalni direktor, dipl. ing. elektrotehnike (Solin, 17. III. 1913 - Zagreb, 19. VI. 1984). Diplomirao (1941) na Strojarskom odsjeku elektrotehničkog smjera Tehničkog fakulteta u Zagrebu. U Elektroprojektu od 1. V. 1952. Nakon kratkog vremena postaje glavni direktor. Na toj dužnosti bio je od 8. IX. 1953. do 2. X. 1979. Više od 26 godina uspješno je vodio poduzeće. U to je vrijeme Elektroprojekt počeo raditi na inozemnim projektima te obavio zavidan broj poslova na inozemnom tržištu. Isto tako u tom je razdoblju Elektroprojekt proširio svoju djelatnost i postao tvrtka za konzultantske poslove na području hidroenergetike i termoeenergetike, vodoprivrede, građevinarstva, industrije kao i



Ružić, Živko, Split, 3/12/1924 - ?. Manager. Senior Industrial Technician. Completed Secondary Technical School. Following the foundation of the federal company Hidroelektroprojekt, with branch offices in Belgrade, Zagreb, Ljubljana, Sarajevo and Skopje, on 1/6/1949 he was appointed its first Manager, a post he occupied for about a year. The Zagreb branch of Hidroelektroprojekt is the legal predecessor of the then future independent company, Elektroprojekt.

Petričić, Živko, Otočac, 31/5/1910 - ?. Manager. Senior Civil Engineering Technician. Completed Secondary Technical School. Employed in the Zagreb branch of Hidroelektroprojekt from 1/3/1950, and was soon afterwards appointed Branch Manager. In 1951, during his mandate, the Zagreb branch became an independent company which was joined by the Zagreb branch of Termoelektroprojekt. On 6/2/1952 the new company for the design of hydro and thermal power generation facilities changed its name to Elektroprojekt. According to company records he performed the duties of Manager of the newly created Elektroprojekt from 12/4/1952 to 7/9/1953, although the central Company Register indicates that he had vacated the post as early as 1/5/1952.

Glavočić Ivo, Solin, 17/3/1913 - Zagreb, 19/6/1984. General Manager. dipl. ing. (Elec. Eng.). Graduated in 1941 from the Department of Mechanical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1/5/1952. He soon became General Manager, a post he held from 8/9/1953 to 2/10/1979, successfully leading the company for over 26 years. At that time Elektroprojekt began to work on foreign projects, the number of projects undertaken on the foreign market being an enviable one. During that same period Elektroprojekt expanded its activities into the area of consulting in the fields of hydro and thermal power generation, water resource management, civil engineering, industry and

nuklearne energetike. Član je većeg broja stručnih udruga, a za svoje vođenje Elektroprojekta primio je više priznanja.

nuclear energy. Member of a number of professional associations, his management of Elektroprojekt earned him several official commendations.

Imamović, Ibro, generalni direktor, dipl. ing. elektrotehnike (Ostrožac kraj Konjica, 6. I. 1924 - Zagreb, 8. VIII. 1986). Diplomirao (1953) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojekt dolazi na mjesto generalnog direktora 1. IV. 1978. s iskustvom vođenja projekata hidroelektrana na Neretvi te vođenja izgradnje HE Rama i HE Jablanica. Na direktorskom mjestu radio do 19. V. 1981. i ubrzo zatim otišao iz Elektroprojekta.



Imamović, Ibro, Ostrožac, near Konjic, 6/1/1924 - Zagreb, 8/8/1986. General Manager. dipl. ing. (Elec. Eng.). Graduated in 1953 from the Department of Electrical Engineering, Technical Faculty in Zagreb. He arrived in Elektroprojekt on 1/4/1978, assuming the post of General Manager, having already gained experience in managing HPP projects on the River Neretva, and the construction management of HPP Rama and HPP Jablanica. Held the post of General Manager until 19/5/1981, soon after which he left the company.

Mrvoš, Milan, generalni direktor, dipl. ing. građevinarstva (Vrbovsko, 7. V. 1923). Diplomirao (1947) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. Specijalizirao (1953) u Francuskoj. U Elektroprojektu od osnivanja. Od 1947. do kraja izgradnje sudjeluje u projektu HE "Nikola Tesla". Radi na projektima hidroelektrana Zavrelje, Slapovi na Uni, Valići, Rijeka. Na projektima HE "Nikola Tesla", Jaruga, Gojak i Sklope radi kao voditelj. Od 1957. do 1960. radi na inozemnim projektima HE Zawgyi i irigacijskog sustava Nanlet u Burmi. Od 1966. do 1981. direktor Hidrobiroa. Predstavnik je u ICOLD-ovu Komitetu za okoliš. Za generalnog direktora izabran je 20. V. 1981. i na toj je dužnosti do odlaska u mirovinu 26. IV. 1987. Član većeg broja stručnih udruga i njihovih upravnih odbora. Za svoj rad primio više službenih priznanja.



Mrvoš, Milan, Vrbovsko, 7/5/1923. General Manager. dipl. ing. (Civ. Eng.). Graduated in 1947 from the Department of Civil Engineering, Technical Faculty in Zagreb. Attended specialisation course in France (1953). Employed in Elektroprojekt from its foundation. From 1947 he was involved in the HPP Nikola Tesla project until its completion. Worked on the design documentation for HPPs Zavrelje, Slapovi na Uni, Valići, Rijeka, and as project leader for HPPs Nikola Tesla, Jaruga, Gojak, and Sklope. From 1957 to 1960 he worked on projects abroad: HPP Zawgyi and the Nanlet irrigation system in Burma. From 1966 to 1981 he was Manager of the Hydro Department, and also functioned as a representative on the ICOLD Committee for the Environment. On 20/5/1981 he was elected to the post of General Manager, where he remained until his retirement on 26/4/1987. Member of several professional associations and their management boards. Recipient of a number of official commendations in recognition of his work.

Tomić, Slavko, generalni direktor, dipl. ing. elektrotehnike (Kruševo kraj Mostara, 10. V. 1926). Diplomirao na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Uspješan stručnjak i rukovoditelj u Elektroprivredi Zagreb. Vodio izgradnju TE Plomin 1 i TE Sisak, bio član rukovodećeg tima izgradnje NE Krško. U Elektroprojekt dolazi 20. XI. 1981. na mjesto direktora Strojarskog biroa. Uspješno vodi biro do 31. X. 1984. kada preko poduzeća INGRA,



Tomić, Slavko, Kruševo, near Mostar, 10/5/1926. General Manager. dipl. ing. (Elec. Eng.). Graduated from the Department of Electrical Engineering, Technical Faculty in Zagreb. Acknowledged expert and manager in Elektroprivreda, Zagreb. He managed the construction of TPP Plomin1 and TPP Sisak, and was a member of the construction management team for NPP Krško. Arrived in Elektroprojekt on 20/11/1981, assuming the post of



dugogodišnjega Elektroprojekta partnera, vodi izgradnju objekata u Alžiru. Po povratku u Elektroprojekt 16. VI. 1987. izabran je za generalnog direktora. Na toj dužnosti ostaje do 21. V. 1991., a potom, do odlaska u mirovinu 31. X. 1991., radi kao tehnički savjetnik direktora Strojarskog biroa. I danas je aktivan na području energetike i zaštite okoliša.

Galić, Kruno, glavni direktor, dipl. ing. građevinarstva (Gorica, zapadna Hercegovina, 18. VI. 1939). Diplomirao (1968) na Građevinskom fakultetu u Zagrebu. Odmah po završetku studija 24. VII. 1968. dolazi u Elektroprojekt na mjesto inženjera pripravnika i do danas se nalazi u tvrtki. Na poslovima projektiranja prošao je sve kategorije poslova - od projektanta suradnika do voditelja kompleksnih projekata. Radi na projektiranju hidrotehničkih objekata, na melioracijskim sustavima u zemlji (Zadar) i inozemstvu (Iran). Na reverzibilnoj hidroelektrani Obrovac radi na projektima od idejnog rješenja do izvedbenih projekata, nadzora i puštanja u pogon. Bio je pomoćnik direktora Hidrobiroa, a od 1986. direktor Hidrobiroa. Na mjesto generalnog direktora izabran je 28. IV. 1991. Nakon provedene pretvorbe društvenog poduzeća Elektroprojekt u dioničko društvo na osnivačkoj skupštini 24. IX. 1992. izabran je za vršitelja dužnosti direktora dioničkog društva, a Upravni odbor ga je 17. XI. 1993. imenovao direktorom Društva. Krajem 1995. provodi se usuglašavanje rada dioničkih društava s novim Zakonom o trgovačkim društvima u okviru kojega ga Nadzorni odbor imenuje za glavnog direktora.



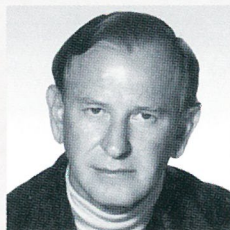
Manager of the Mechanical Engineering Department, which he successfully managed until 31/10/1984 when, through INGRA, a long-term partner of Elektroprojekt, he went on to be an equally successful manager of projects in Algeria. Upon his return to Elektroprojekt he was elected General Manager on 16/6/1987, where he remained until 21/5/1991. Then, until his retirement on 31/10/1991, he was Technical Advisor to the Manager of the Mechanical Engineering Department. He remains active in the field of power generation and environmental protection.

Galić, Kruno, Gorica, Western Herzegovina, 18/6/1939. General Manager. dipl. ing. (Civ. Eng.). Graduated in 1968 from the Faculty of Civil Engineering in Zagreb. Joined Elektroprojekt 24/7/1968 as a trainee engineer immediately after graduation, and has been employed in the company ever since. He has gone through every phase of design development process - from junior designer to complex project manager. Worked on designs for hydro-technical facilities and land reclamation systems at home (Zadar) and abroad (Iran). Worked on the pumped storage HPP Obrovac project, from conceptual design to final designs, supervision and commissioning. Initially, he was Deputy Manager of the Hydro-Department, and in 1986 he became Department Manager. On 28/4/1991 he was elected General Manager. Following the successfully implemented transformation of the socially owned company of Elektroprojekt into a joint stock company, he was elected as Acting Manager of the joint stock company at the Constituent Assembly held on 24/9/1992. On 17/11/1993 the Management Board appointed him to the post of Company Manager. When, towards the end of 1995, the company organisation had to be harmonised with the new Company Act, the Supervisory Board appointed him General Manager.

Rukovoditelji i direktori organizacij- skih jedinica

Managers of Organisational Units

Abaffy, Miloslav, rukovoditelj Komercijalnog biroa i vodeći projektant, dipl. ing. el. (Zagreb, 4. III. 1926 - Zagreb, 27. XII. 1996.). Diplomirao (1953) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1954. do 1986. u Elektroprojektu. Radi na projektima TS Brinje, TS Mraclin, TS Botinec, TS Ernestinovo, TS Međurić i RP HE Dubrava. Također radi na irigaciji El Zawia. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.



Abaffy, Miloslav, Zagreb, 4/3/1926. - Zagreb, 27/12/1996 Manager of Commercial Department and Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1953 from the Electrical Engineering Department, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1954 to 1986. Worked on the following projects: Substation (SS) Brinje, SS Mraclin, SS Botinec, SS Ernestinovo, SS Međurić and switchyard of the Dubrava hydroelectric power plant, as well as the El Zawia irrigation system. Member of CIGRE Croatian Committee. Recipient of several awards and commendations in recognition of his work.

Begović, Krunoslav, direktor Elektrobirao, dipl. ing. el. (Sarajevo, 22. IV. 1922). Diplomirao (1946) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1953. do 1988. u Elektroprojektu. Radi na projektima transformatorskih stanica, hidroelektrana i termoelektrana u Hrvatskoj i inozemstvu. Objavio niz znanstvenih i stručnih radova. Niz godina na Elektrotehničkom fakultetu u Zagrebu asistent za predmet "Mreže i instalacije" te predavač za predmet "Enciklopedija proizvodnje, prijenosa i razdiobe električne energije". Od 1979. do 1985. godine u Zavodu za energetska postrojenja Fakulteta strojarstva i brodogradnje u Zagrebu predaje "Hidroenergetska postrojenja". Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.



Begović, Krunoslav, Sarajevo, 22/4/1922. Manager of Electrical Engineering Department. dipl. ing. (Elec. Eng.). Graduated in 1946 from the Electrical Engineering Department, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1953 to 1988. Worked on projects at substations, hydroelectric power plants and thermal power plants in Croatia and abroad. Author of a significant number of scientific and professional papers. For a number of years was an assistant professor at the Faculty of Electrical Engineering in Zagreb (course: Networks and Installations) as well as lecturing on course, Encyclopaedia of Production, Transfer and Distribution of Electric Energy. From 1979 to 1985 was a lecturer at the Department for Power Plants at the Faculty of Mechanical Engineering and Naval Architecture in Zagreb (course: Hydroelectric Power Plants). Member of CIGRE Croatian Committee. Recipient of several awards and commendations in recognition of his work.

Branković, Neven, direktor Informatičko-telekomunikacijskog biroa, dipl. ing. el. (Zagreb, 10. X. 1946). Diplomirao (1970) na Elektrotehničkom fakultetu u Zagrebu. Od 1972. u Elektroprojektu. Kao projektant telekomunikacija sudjeluje na projektima HE Dubrava, HE Čakovec, NE Krško, PTE Jertovec, TS Mraclin, KLE Varaždin, UML Kosinj. Vodi izradu projekta SDV-a Elektre Križ, telekomunikacijskog sustava JUGEL-a, telekomunikacijskog prijenosnog sustava EGS Slovenije. Od 1991.



Branković, Neven, Zagreb, 10/10/1946. Manager of Information Systems and Telecommunications (IST) Department. dipl. ing. (Elec. Eng.). Graduated in 1970 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt since 1972. Participated as a design engineer in the following projects: HPP Dubrava, HPP Čakovec, nuclear power plant (NPP) Krško, gas-turbine power plant (GTTP) Jertovec, SS Mraclin, hydropower system control centre (HPSCC) Varaždin, hydropower



do danas direktor IT biroa. Član komiteta 35 HK CIGRE. Za svoj rad primio više službenih priznanja.

system control point (HPSCP) Kosinj. Project manager for Elektra Križ Remote Control System, the JUGEL telecommunication system, and for the telecommunication transmission system of EGS Slovenija. Since 1991 he has held the post of Manager of the IST Department. Member of CIGRE Croatian Committee. Recipient of several awards and official commendations in recognition of his work.

Crnković, Željko, direktor Elektro-mehaničkog biroa, dipl. ing. el. (Zagreb, 1. IV. 1943). Diplomirao (1968) na Elektrotehničkom fakultetu u Zagrebu. Od 1970. do 1996. u Elektroprojektu. Radi na projektima HE Gojak, HE Zakućac 2, HE Varaždin, TE Rijeka-Urinj, TS Tumbri i u inozemstvu HE Ramu, HE Vuhred i HE New Martinsville. Od 1985. do 1986. pomoćnik direktora EM biroa, a direktorom postaje 1986., sve do odlaska iz Elektroprojekta 1996. Član HK CIGRE.



Crnković, Željko, Zagreb, 1/4/1943. Manager of Electromechanical Engineering (EME) Department. dipl. ing. (Elec. Eng.). Graduated in 1968 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt from 1970 to 1996. Involved in projects both at home and abroad: HPP Gojak, HPP Zakućac 2, HPP Varaždin, TPP Rijeka-Urinj, SS Tumbri; HPP Rama, HPP Vuhred and HPP Martinsville. From 1985 to 1986 held the post of Deputy Manager of the EME Department. In 1986 became the Manager, where he remained until his departure from Elektroprojekt in 1996. Member of CIGRE Croatian Committee.

Gaćina, Ante, direktor Strojarskog biroa, dipl. ing. stroj. (Makarska, 16. III. 1907 - Zagreb, 10. V. 1972). Diplomirao na Strojarskom odsjeku Tehničkog fakulteta u Zagrebu. Od 1951. do 1972. u Elektroprojektu. Radi na projektima TE Jertovec, TE Sisak, TE-TO Zagreb, te kao voditelj projekta TE Plomin 1, nakon čega je imenovan direktorom Strojarskog biroa.



Gaćina, Ante, Makarska, 16/3/1907 - Zagreb, 10/5/1972. Manager of Mechanical Engineering (ME) Department. dipl. ing. (Mech. Eng.). Graduated from the Department of Mechanical Engineering at the Technical Faculty in Zagreb. From 1951 to 1972 employed in Elektroprojekt on the projects TPP Jertovec, TPP Sisak, heating and power plant Zagreb, and as project leader for TPP Plomin 1, following which he was appointed manager of the ME Department.

Gojčeta, Ivan, pomoćnik glavnog direktora, dipl. oec. (Čitluk kraj Drniša, 2. I. 1934). Diplomirao (1965) na Ekonomskom fakultetu u Zagrebu. Od 1956. u Elektroprojektu. Radio na poslovima referenta i višeg referenta u Komercijalnoj službi, zatim kao rukovoditelj Komercijalne službe, te kao direktor Biroa zajedničkih službi. Danas je pomoćnik glavnog direktora za komercijalne i financijske poslove. Član Nadzornog odbora Elektroprojekta (prije Upravnog odbora). Za svoj rad primio više službenih priznanja.



Gojčeta, Ivan, Čitluk, near Drniš, 2/1/1934. Deputy General Manager. dipl. oec. Graduated in 1965 from the Faculty of Economics in Zagreb. Employed in Elektroprojekt from 1956. Worked as an official and senior official in the Commercial Service, then as the Head of Commercial Service, and as Manager of Corporate Services Department. Today, he is Deputy General Manager for Commerce and Finances. Member of the Supervisory Board of Elektroprojekt (earlier, of the Management Board). Recipient of several awards and official commendations in recognition of his work.

Jelušić, Ante, direktor Arhitektonsko-konstruktivskog biroa, dipl. ing. arh. (Blato na Korčuli, 6. V. 1940). Diplomirao (1967) na Arhitektonskom fakultetu u Zagrebu. Od 1985. zaposlen u Elektroprojektu. Radi na projektima NE Prevlaka, TE Plomin 2, komandnih zgrada HE Podsused i HE Virje, te kao voditelj projekta i projektant objekata Centra za radijacijsku medicinu i zaštitu (KBC Rebrow), poslovne zgrade Ingra-



Jelušić, Ante, Blato, island of Korčula, 6/5/1940. Manager of Architectural and Structural Engineering (ASE) Department. dipl. ing. (Arch.). Graduated in 1967 from the Faculty of Architecture in Zagreb. Employed in Elektroprojekt since 1985. Involved in the projects NPP Prevlaka, TPP Plomin 2, control centres for HPP Podsused and HPP Virje. Project manager and design engineer for premises of the Centre for Radiation

Elektroprojekt, benzinska postaje OMV u Zagrebu, te na projektu prilagodbe i unutrašnjeg uređenja radnih prostora tvornice Ericsson-Nikola Tesla Zagreb. Početkom 1999. imenovan direktorom Arhitektonsko-konstruktorskog biroa.

Medicine and Protection (KBC Rebro), INGRA - Elektroprojekt office building, OMV fuel station in Zagreb, and the adaptation and interior design of the Ericsson-Nikola Tesla factory premises in Zagreb. At the beginning of 1999 appointed to the post of Manager of ASE Department.

Jelušić, Fedor, savjetnik direktora biroa, dipl. ing. el. (Kastav, 27. V. 1913). Diplomirao (1937) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1949. do 1980. u Elektroprojektu s kraćim prekidima. Radi na projektima hidroelektrana Vinodol, Fužine (Vrelo), Gojak i Rijeka. Izradio nekoliko inovacija na hidrauličkim strojevima i hidromehaničkoj opremi, koje su patentirane. Objavio niz znanstvenih i stručnih radova. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.



Jelušić, Fedor, Kastav, 27/5/1913. Deputy Department Manager. dipl. ing. (Elec. Eng.). Graduated in 1937 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1949 to 1980, with brief interludes. Worked on the HPPs Vinodol, Fužine (Vrelo), Gojak and Rijeka. Developed several innovations for hydraulic machines and hydro-mechanical equipment, which were patented. Author of a number of scientific and technical papers. Member of CIGRE Croatian Committee. Recipient of several commendations and awards in recognition of his work.

Keglević, Zlatko, direktor Arhitektonsko-geodetskog biroa, dipl. ing. građ. (Zagreb, 13. XII. 1938). Diplomirao (1964) na Građevinskom fakultetu u Zagrebu. Od 1957. do 1958. i od 1964. do 1998. u Elektroprojektu. Do 1972. radi kao projektant i odgovorni statičar na građevinskim projektima većeg broja trafostanica 110 i 220 kV, TE-TO Osijek, TE Plomin 1, HE Varaždin, HE Čakovec, HE Mahabad, El Zawia i MWL. Od 1972. do 1978. vodi građevinske projekte TS Ernestinovo i Zagreb, kao i TE Rijeka-Urinj. Od 1978. do 1986. šef Biroa za arhitekturu i statiku, a potom do 1998. direktor Arhitektonsko-konstruktorsko-geodetskog biroa odnosno Arhitektonsko-geodetskog biroa. Član više stručnih udruga. Primio priznanja za rad.



Keglević, Zlatko, Zagreb, 13/12/1938. Manager of Architectural and Surveying Department. dipl. ing. (Civ. Eng.). Graduated in 1964 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1957 to 1958 and from 1964 to 1998. By 1972 he had worked as a project engineer and chief structural engineer on civil engineering designs at a considerable number of 110 and 220 kV substations, on Cogeneration Plant Osijek, TPP Plomin 1, HPP Varaždin, HPP Čakovec, HPPs Mahabad, El Zawia and MV power grid in Egypt. From 1972 to 1978 headed development of civil designs for SS Ernestinovo and Zagreb, as well as TPP Rijeka-Urinj. From 1978 to 1986, head of Department for Architecture and Statics and then, up until 1998, was Manager of Architectural, Structural Engineering and Surveying Department (later Architectural and Surveying Department). Member of several professional associations. Recipient of a number of awards in recognition of his work.

Kres, Branko, šef Biroa za geodeziju, dipl. ing. geod. (Zagreb, 12. II. 1919.). Diplomirao na Geodetskom odsjeku Tehničkog fakulteta u Zagrebu. Od 1952. do 1984. u Elektroprojektu. Do 1962. radi kao voditelj i izvršitelj geodetskih radova za potrebe projektiranja gotovo svih objekata hidroelektrana, brana, hidrotehničkih tunela, cjevovoda, objekata infrastrukture i drugih, u zemlji i inozemstvu. Projekti HE Vinodol, HE Split, HE Senj, HE Peruća, HE Rijeka i drugi, kao i projekti u Burmi, Etiopiji, Iranu, Libiji, Alžiru i Egiptu rađeni su na geodetskim podlogama i izmjerama kojima je rukovodio. Od 1962. do 1984. šef Biroa za geodeziju. Član više stručnih udruga. Primio brojna priznanja i nagrade.



Kres, Branko, Zagreb, 12/2/1919. Head of Surveying Department. dipl. ing. (Geodesy). Graduated from the Department of Geodesy, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1952 to 1984. Up until 1962 headed and performed surveying activities required for design of almost all hydroelectric power plants, dams, Power tunnels, pipelines, infrastructural and other facilities, both at home and abroad. Design documentation for the HPP Vinodol, HPP Split, HPP Senj, HPP Peruća, HPP Rijeka and others, as well as some projects in Burma, Ethiopia, Libya, Algiers and Egypt, have all been accomplished on the basis of the geodetic documentation and surveys he managed. From 1962 to 1984 he was Head of the Surveying



Department. Member of several professional associations. Recipient of numerous commendations and awards.

Krušlin, Antun, direktor Hidrobiroa, dipl. ing. građ. (Zagreb, 3. VII. 1922). Diplomirao (1948) na Građevinskom fakultetu u Zagrebu. U Elektroprojektu od osnutka (s kraćim prekidom) do 1987. Vodi projekte Baščica, Prančevići, RHE Velebit-Obrovac, u Iranu projekte velikih irigacijskih sustava Urumieh, Salmas, Gadar Chai, Little Zab, u Etopiji projekte HE Tis Abbay, HE Adola te projekte irigacijskih sustava Abbaya Chamo i Awassa. Suradivao na projektima HE Zakućac, HE Senj i drugima. Direktor Hidrobiroa od 1983. do 1986. Član niza stručnih udruga. Za svoj rad dobio više službenih priznanja.



Krušlin, Antun, Zagreb, 3/7/1922. Manager of Hydraulic Engineering Department. dipl. ing. (Civ. Eng.). Graduated in 1948 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since its foundation (with a short break) until 1987. Project leader for Baščica, Prančevići, Pumped-Storage Plant Velebit - Obrovac; in Iran he managed projects involving large irrigation systems: Urumieh, Salmas, Gadar Chai, Little Zab, in Ethiopia the HPP Tis Abbay, HPP Adola, and the irrigation systems Abbaya Chamo and Awassa. Participated in the projects HPP Zakućac, HPP Senj, and others. Department Manager from 1983 to 1986. Member of a number of professional associations. Recipient of several official commendations in recognition of his work.

Kuštrak, Dubravko, pomoćnik glavnog direktora, dipl. ing. stroj. (Virje, 19. VIII. 1945). Diplomirao (1971) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1972. u Elektroprojektu. Radi na projektima FCP Matroz, TE Negotino, TE Plomin 1 i 2 te na nostrifikaciji tehničke dokumentacije za TE Urinj. Također za kombinat Belišće, tvornicu cementa Kaštela i Željezaru Split radi na izvedbi projekata racionalnog korištenja energije u industrijskim postrojenjima. Od 1981. do 1984. radi u NE Krško na pripremi i izvođenju modifikacija sustava nuklearne elektrane, remontnih radova i izradi projekta izvedenog stanja. Od 1984. do 1986. v.d. direktora biroa, a zatim postaje direktor Strojarsko-tehnološkog biroa. Od 1999. pomoćnik glavnog direktora za inženjering.



Kuštrak, Dubravko, Virje, 19/8/1945. Deputy General Manager. dipl. ing. (Mech. Eng.). Graduated in 1971 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1972. Worked on the projects Matroz factory, TPP Negotino, TPP Plomin 1 and 2, and on the validation of technical documentation for TPP Urinj. Also involved in implementation of energy conservation in industrial units for the Belišće industrial complex, the Kaštela cement factory and the Sisak Steel Works. From 1981 to 1984 worked in NPP Krško on the preparation and implementation of modifications to the nuclear power plant systems, overhauling works and as-built documentation development. From 1984 to 1986 he was initially Acting Department Manager, and then Manager of the Mechanical and Process Engineering Department. Since 1999 he has been Deputy General Manager for Engineering.

Lukić, Bogdan, šef Biroa za statiku, dipl. ing. građ. (Zagreb, 24. XII. 1922). Diplomirao (1954) na Građevinskom fakultetu u Zagrebu. Od 1954. do 1989. u Elektroprojektu. Do 1962. projektant građevinskih objekata i konstrukcija na termoelektranama Konjščina, Sisak, Rijeka, kao i brojnih trafo-stanica. Odgovorni projektant dijelova objekata HE Split, HE Senj, HE Zakućac, HE Rijeka, te glavni projektant građevinskog projekta TE Kandla i HE Ramu. Od 1962. do 1967. šef Biroa za statiku. Od 1967. do 1970. radi na projektu i nadzoru HE Mahabad. Od 1980. tehnički savjetnik. Do 1989. vodi građevinske projekte HE Čakovec, HE Dubrava i rasklopnog postrojenja Meline. Član više stručnih udruga. Primio brojna priznanja i nagrade.



Lukić, Bogdan, Zagreb, 24/12/1922. Head of Statics Department. dipl. ing. (Civ. Eng.). Graduated in 1954 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1954 to 1989. Up until 1962 he was design engineer for buildings and structures for the TPPs Konjščina, Sisak and Rijeka, as well as for numerous substations. He was also the senior design engineer for part of the units of the HPP Split, HPP Senj, HPP Zakućac, HPP Rijeka. Abroad, he was the senior design engineer for the civil engineering segment of TPP Kandla and HPP Ramu. From 1962 to 1967 he headed the Statics Department. From 1967 until 1970 he worked on the design documentation, and supervision, of HPP Mahabad. In 1980 he became Technical Advisor. Until 1989 he managed the civil designs of HPP Čakovec, HPP Dubrava and switchyard Meline. Member of several professional



associations. Recipient of numerous commendations and awards.

Mahmutović, Zdenko, direktor Hidro-građevinskog biroa, dipl. ing. građ. (Doboj, 14. XII. 1955). Diplomirao (1979) na Fakultetu građevinskih znanosti u Zagrebu. Od 1980. u Elektroprojektu. Sudjeluje u izradi ili vodi idejna rješenja objekata na Dravi - HE Osijek, HE Donji Miholjac, HE Moslavina, HE Botovo, HE Novo Virje - idejne projekte - VS Đurđevac, VS Barč, HE Novo Virje - i dijelom glavne projekte - Sidi Yacoub, HE Krčić, HE Dubrava, VS Đurđevac. Sudjeluje i vodi studijske poslove. Asistent na Građevinskom fakultetu Sveučilišta u Zagrebu od 1988. godine na kolegijima "Korištenje vodnih snaga" i "Hidrotehničke građevine". Tajnik Hrvatskog društva za velike brane od 1992. Objavio niz stručnih radova.



Mahmutović, Zdenko, Doboj, 14/12/1955. Manager of Hydro and Civil Engineering Department. dipl. ing. (Civ. Eng.). Graduated in 1979 from the Faculty of Civil Engineering Sciences in Zagreb. Employed in Elektroprojekt since 1980. Participates in the development and implementation of preliminary studies for power facilities on the River Drava - HPP Osijek, HPP Donji Miholjac, HPP Moslavina, HPP Botovo, HPP Novo Virje; conceptual designs for Hydropower System (HPS) Đurđevac, HPS Barč, HPP Novo Virje; and partially on the main designs for the projects of Sidi Yacoub, HPP Krčić, HPP Dubrava, HPS Đurđevac. Participates in and manages activities related to studies. Assistant Professor at the Faculty of Civil Engineering at the University of Zagreb, lecturing on "Utilisation of Water Resources" and "Hydraulic Structures", since 1988. Secretary of the Croatian Committee on Large Dams since 1992. Author of numerous professional papers.

Matijašević, Josip, pomoćnik glavnog direktora, dipl. ing. građ. (Sunja, 7. I. 1939). Diplomirao (1964) na Građevinskom fakultetu u Zagrebu. U Elektroprojektu od 1964. do danas. Vodi projekte HE Valići, HE Baglihar u Indiji, regulacije rijeke Vuke, ustave Šišljević i Kupčina, tipske i posebne objekte na irigacijskim sustavima Mahabad, Urumieh i Salmas, te vodi nadzor nad njihovom izgradnjom unutar sustava Mahabad. Suraduje na projektima HE Varaždin, HE Đurđevac, HE Sklope, HE Rijeka, HE Senj, HE Gojak, HE Golubić, HE Žur i drugima. Od 1991. do 1998. direktor Hidro-građevinskog biroa. Sada pomoćnik glavnog direktora za projektiranje i konzalting. Član više stručnih udruga.



Matijašević, Josip, Sunja, 7/1/1939. Deputy General Manager. dipl. ing. (Civ. Eng.). Graduated in 1964 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1964 to date. Project leader for HPP Valići, HPP Baglihar in India, for training of the River Vuka, for the diversion dams Šišljević and Kupčina, standard and special structures for the irrigation systems Mahabad, Urumieh and Salmas, as well as supervising their construction within the Mahabad system. Co-operated in the projects of HPP Varaždin, HPP Đurđevac, HPP Sklope, HPP Rijeka, HPP Gojak, HPP Žur, and others. From 1991 to 1998 he was Manager of the Hydro and Civil Engineering Department. At this point in time he is Deputy General Manager for Consulting Services. Member of several professional associations.

Matjan, Ljudevit, rukovoditelj Odjela za projektiranje termoelektrana, dipl. ing. el. (Čakovec, 11. VIII. 1912 - Zagreb, 27. II. 1994). Diplomirao (1938) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1951. do 1969. i od 1975. do 1979. u Elektroprojektu. Radi na projektima termoelektrana - TE-TO Zagreb i druge. Također radi na izgradnji sred-njonažonske mreže u Egiptu. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.



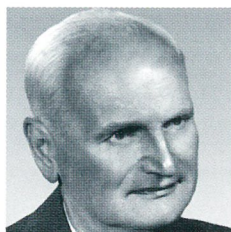
Matjan, Ljudevit, Čakovec, 11/8/1912 - Zagreb, 27/2/1994. Head of Thermal Power Plant Design Section. dipl. ing. (Elec. Eng.). Graduated in 1938 from the Department of Electrical Engineering, Technical Faculty in Zagreb. From 1951 to 1969 and from 1975 to 1979 employed in Elektroprojekt on thermal power plant projects - TPP-HP Zagreb, and others. Also worked on the construction of MV power grid in Egypt. Member of CIGRE Croatian Committee. Recipient of several commendations and awards in recognition of his work.

Mihajlov, Juraj, šef Projektantske grupe za termoelektrane, dipl. ing. el. (Rotmistrovka, Ukrajina, 20. VIII. 1889 - Zagreb, 11. XII. 1965). Diplomirao (1911) na Elektro-strojarskom fakultetu u

Mihajlov, Juraj, Rotmistrovka, Ukraine, 20/8/1889 - Zagreb, 11/12/1965. Head of Thermal Power Plants Design Group. dipl. ing. (Elec. Eng.). Graduated in 1911 from the Faculty of Electrical and



Petrogradu. Od 1951. u Hidroelektroprojektu (danas Elektroprojekt) i osniva Odjel za projektiranje termoelektrana u kojem rade projektanti strojarske, elektrotehničke i građevinske struke. Sam obrađuje pitanje goriva za termoelektrane, kao i izbor vrste tehnološkog procesa, ekonomičnosti, te ekološka pitanja. Uspijeva kod mjerodavnih dobiti pristanak za izgradnju termoelektrane u Zagrebu, potrebne za lokalnu industriju i grijanje zgrada. Tako je nastajao projekt TE-TO Zagreb. Godine 1953. odlazi iz Elektroprojekta, no i dalje prati izgradnju TE-TO Zagreb. Bavio se znanstvenim radom. Objavio stručnu knjigu "Termoelektrane".



Mechanical Engineering in St Petersburg. From 1951 employed in Hidroelektroprojekt (today's Elektroprojekt) where he founded a Thermal Power Plant Design Section, which engaged mechanical, electrical and civil engineers. His field of interest was the problem area of fuels for thermal power plants, selection of technological process, project cost-effectiveness and environmental issues. He managed to obtain approval from the relevant authorities for the construction of the Zagreb TPP, needed both for industry and district heating, which resulted in the project TPP-HP Zagreb. In 1953 he left Elektroprojekt but continued to follow the construction of the TPP-HP Zagreb. He was also engaged in scientific work, and was the author of the book "Thermal Power Plants".

Mrakužić, Branko, direktor Strojarsko-tehnološkog biroa, dipl. ing. stroj. (Prekrižje, 15. XI. 1956). Diplomirao (1981) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1996. u Elektroprojektu. Radi kao vodeći projektant i voditelj projekta PTE Zagreb Zapad, plinskoturbinske elektrane s kotlovima na ispušne plinove u EL-TO Zagreb do kraja 1998. Početkom 1999. imenovan direktorom Strojarsko-tehnološkog biroa.



Mrakužić, Branko, Prekrižje, 15/11/1956. Manager of Mechanical and Process Engineering (MPE) Department. dipl. ing. (Mech. Eng.). Graduated in 1981 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1996. Worked as Lead Design Engineer and Project Manager at the GTPP Zagreb Zapad, a gas-turbine power station with heat-recovery steam generators in the Cogeneration Plant Zagreb until the end of 1998. At the beginning of 1999 he was appointed Manager of the MPE Department.

Pavlović, Davor, direktor Elektro-mehaničkog biroa, dipl. ing. el. (Dubrovnik, 18. XI. 1941). Diplomirao (1968) na Elektrotehničkom fakultetu u Zagrebu. Od 1971. u Elektroprojektu. Vodi projekte TS Željezara Sisak, TS Bjelovar-rekonstrukcija, TS Tumbri-proširenje i obnova, TS Žerjavinec, TS Krndija, TS Melina-obnova i TS Požega 1-rekonstrukcija. Radi na elektro-strojarskom dijelu projekata AS Crni Lug, CS Lokve, HE Dubrovnik-revitalizacija, HE Kosinj. Od 1975. do 1992. radi na inozemnim projektima - irigacijskom sustavu Mahabad, HE Tiss Abbay, HE Doroodzan Dam, brani Brezina i brani Mahabad. Od 1989. do 1996. pomoćnik direktora, a od 1996. direktor Elektro-mehaničkog biroa. Član HK CIGRE, HED-a te potpredsjednik Hrvatske komore arhitekata i inženjera u graditeljstvu i predsjednik njezina Strukovnog razreda inženjera elektrotehnike.



Pavlović, Davor, Dubrovnik, 18/11/1941. Manager of Electromechanical Engineering (EME) Department. dipl. ing. (Elec. Eng.). Graduated in 1968 from the Faculty of Electrical Engineering, Zagreb. Employed in Elektroprojekt since 1971. Project Leader for SS Sisak, SS Bjelovar - reconstruction, SS Tumbri - expansion and repair, SS Žerjavinec, SS Krndija, SS Melina - retrofit, and SS Požega 1 - reconstruction. Participated in the electrical and mechanical engineering segment of projects Reservoir System Crni Lug, Pumping Station Lokve, HPP Dubrovnik - refurbishment, HPP Kosinj. From 1975 to 1992 worked on projects abroad - Mahabad irrigation system, HPP Tiss Abbay, HPP Doroodzan Dam, the Brezina dam and the Mahabad dam. From 1989 to 1996, Deputy Manager, and from 1996 Manager of EME Department. Member of CIGRE Croatian Committee, Croatian Energy Association and Vice-president of the Croatian Chamber of Architects and Engineers in building construction, and President of its Professional Class of Electrical Engineers.

Schwartz, Zdenko, direktor Hidrobiroa, dipl. ing. građ. (Zagreb, 22. XI. 1917 - Zagreb, 12. VII. 1995). Diplomirao (1943) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu s

Schwartz, Zdenko, Zagreb, 22/11/1917 - Zagreb, 12/7/1995. Manager of Hydraulic Engineering Department. dipl. ing. (Civ. Eng.). Graduated in 1943 from the Department of Civil Engineering,

kraćim prekidima od osnutka do 1983. Direktor predstavništva Elektroprojekta u Iranu od 1965. do 1982. Do odlaska u Iran radi na projektima niza hidroelektrana, laboratorijskim ispitivanjima hidrotehničkih objekata, projektima brana, hidrotehničkih sustava i dr. Direktor Hidrobiroa od 1982. do 1983.



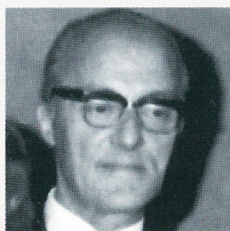
Technical Faculty in Zagreb. Employed in Elektroprojekt, with brief interludes, since its foundation up until 1983. From 1965 to 1982 he was Resident Manager of Elektroprojekt's office in Iran. Until his departure for Iran he worked on a number of HPP projects, in laboratory testing of hydraulic facilities, on dam projects, hydraulic systems and other projects. He was Manager of the Hydraulic Engineering Department from 1982 until 1983.

Sesardić, Slaven, komercijalni direktor, dipl. ing. el. (Sinj, 1. I. 1914. - Zagreb, 15.12.1986). Diplomirao na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1969. do 1979. u Elektroprojektu. Za svoj rad primio više službenih priznanja.



Sesardić, Slaven, Sinj, 1/1/1914. - Zagreb, 15/12/1986. Commercial Manager. dipl. ing. (Elec. Eng.). Graduated from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1969 to 1979. Recipient of a number of official commendations in recognition of his work.

Skare, Ante, šef Biroa za arhitekturu, dipl. ing. arh. (Split, 8. IX. 1912). Diplomirao na Arhitektonskom fakultetu u Zagrebu. Od 1950. do 1978. u Elektroprojektu. Do 1960. radi kao vrstan arhitekt na osnovnim rješenjima gotovo svih energetskih objekata koji su projektirani u Elektroprojektu. Voditelj je i autor idejnih i glavnih arhitektonskih projekata HE Vinodol, HE Split, HE Senj, HE Peruća, HE Rijeka, kao i brojnih arhitektonskih rješenja na objektima termoelektrana Plomin, Sisak, Osijek, Rijeka, Negotino i dr. U inozemstvu radi na energetskim objektima u Burmi, Etiopiji, Iranu, Egiptu, Libiji i Grčkoj. Od 1960. do 1967. šef Biroa za arhitekturu, a zatim od 1967. do 1978. šef Biroa za arhitekturu i statiku. Član više stručnih udruga. Za svoj rad primio više službenih priznanja i nagrada.



Skare, Ante, Split, 8/9/1912. Head of Architectural Department. dipl. ing. (Arch.). Graduated from the Faculty of Architecture in Zagreb. Employed in Elektroprojekt from 1950 to 1978. An outstanding architect, up until 1960 he was involved in developing the conceptual background for almost all the power generation project designs made in Elektroprojekt. He was both project leader and author of the conceptual and final architectural designs for the HPP Vinodol, HPP Split, HPP Senj, HPP Peruća, HPP Rijeka, as well as being the author of numerous architectural designs on the units in TPPs Plomin, Sisak, Osijek, Rijeka, Negotino, and others. He also worked abroad on power generation projects - Burma, Ethiopia, Iran, Egypt, Libya and Greece. From 1960 until 1967 he was Head of the Architectural Department, and from 1967 to 1978 Head of the Architecture and Statics Department. Member of several professional associations. Recipient of a number of official commendations and awards in recognition of his work.

Stepinac, Antun, rukovoditelj Odjela za hidrologiju, prof., dipl.ing.grad. (Vrhovac kod Karlovca, 1.XII.1908 - Zagreb 8.I.1985). Diplomirao (1932) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od osnutka do 1973. s prekidom od 1965. do 1968. kada je bio rukovoditelj Republičkoga hidrometeorološkog zavoda u Zagrebu. Od 1973. do 1985. radi kao redoviti profesor hidrologije na Građevinskom fakultetu u Zagrebu i u Elektroprojektu kao tehnički savjetnik. Rukovodi izradom hidroloških obrada sljevova Rječine, Ličanke, Lokvarke, Kupe s Dobrom, Mrežnicom i Koranom, Like, Gacke, Krke, Zrmanje, Cetine, Neretve, gornje i srednje Drave, kao i mnogih drugih u zemlji i inozemstvu. Njegove studije poslužile



Stepinac, Antun, Vrhovac, near Karlovac, 1/12/1908 - Zagreb, 8/1/1985. Professor, dipl. ing. (Civ. Eng.). Head of Hydrology Section. Graduated in 1932 from the Department for Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt since its foundation, up until 1973, with a break between 1965 and 1968 when he occupied the post of Head of the Republic Institute for Hydrometeorology in Zagreb. From 1973 to 1985 he was a full Professor of Hydrology at the Faculty of Civil Engineering in Zagreb, as well as being a technical advisor in Elektroprojekt. Controlled the production of hydrological analysis of the river basins of the Rivers Rječina, Ličanka, Lokvarka, Kupa with Dobra, Mrežnica and Korana, Lika, Gacka, Krka, Zrmanja, Cetina,

su kao podloge projektima velikih hidrotehničkih objekata u Hrvatskoj, Burmi, Siriji, Etiopiji, Iranu i Alžiru. Za svoj rad primio više službenih priznanja.

Neretva, the upper and central Drava, as well as many other rivers both at home and abroad. His scientific papers and studies provided the basis for designs of large hydro-technical projects in Croatia, Burma, Syria, Ethiopia, Iran and Algeria. Recipient of a number of official commendations in recognition of his work.

Šimat, Marko, direktor Informatičko-dokumentacijskog biroa, dipl. ing. el. (Zagreb, 3. I. 1944). Diplomirao (1967) na Elektrotehničkom fakultetu u Zagrebu. Od 1984. do 1991. u Elektroprojektu. Sudjeluje na izradi projekata IS NE Krško, IS ZEOH, IS CETRA, te vodi izradu projekata IS Kamensko i INA-benzinske stanice. Od 1986. direktor Informatičko-dokumentacijskog biroa. Član je nekoliko stručnih udruga.



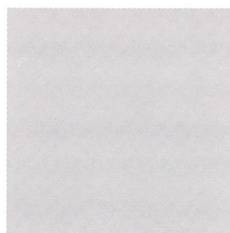
Šimat, Marko, Zagreb, 3/1/1944. Manager of Information Systems and Documentation Control Department since 1986. dipl. ing. (Elec. Eng.). Graduated in 1967 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt from 1984 to 1991. Participated in the development of design documentation for ZEOH and CETRA Information Systems, as well as managing the development of design documentation for Information Systems for Kamensko and INA petrol pumps. Member of several professional associations.

Šimunić, Milivoj, direktor Strojarskog biroa, dipl. ing. el. (Zagreb, 21. V. 1925). Diplomirao (1950) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1951. do 1952. i od 1953. do 1990. u Elektroprojektu. Radi na projektima TE Vlaška, TE Jertovec, TE Županja, TE Rijeka, TE-TO Zagreb i TE-TO Maribor. Radi također na NE Krško i NE Prevlaka kao i na energetsom pogonu tvornica celuloze i papira u Belišću i Ivangradu, kao i na vrelodovima u Zagrebu i Skoplju. Šef je Nuklearnog biroa od 1962. do 1963., te direktor Strojarskog biroa od 1972. do 1980. godine. Član British Nuclear Society i Forum Italiano dell' Energia Nucleare.



Šimunić, Milivoj, Zagreb, 21/5/1925. Manager of Mechanical Engineering Department. dipl. ing. (Elec. Eng.). Graduated in 1950 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1951 to 1952, and from 1953 to 1990. Involved in the projects TPP Vlaška, TPP Jertovec, TPP Rijeka, Cogeneration Plants Zagreb and Maribor. Also worked on the NPP Krško and NPP Prevlaka, as well as on the powerhouse for the wood pulp and paper mills in Belišće and Ivograd, and on the district heating pipelines in Zagreb and Skopje. From 1962 to 1963 he was Head of the Nuclear Department, and Manager of the Mechanical Engineering Department from 1972 to 1980. Member of the British Nuclear Society and of the Forum Italiano dell' Energia Nucleare.

Uzelac, Blaž, rukovoditelj Odjela za projektiranje transformatorskih stanica, dipl. ing. el. (Smiljan kraj Gospića, 10. II. 1906 - ?). Diplomirao (1931) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1951. do 1955. u Elektroprojektu. Radi na projektima transformatorskih stanica. Član HK CIGRE.



Uzelac, Blaž, Smiljan, near Gospić, 10/2/1906 - ?. Head of Substations Design Section. dipl. ing. (Elec. Eng.). Graduated in 1931 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1951 to 1955, during which time he was both Head of the Substations Design Section and an active participant in substation designs. Member of CIGRE Croatian Committee.

Žugaj, Mladen, rukovoditelj Građevinskog odjela, prof. dr. sc., dipl. ing. građ. (Slavonski Brod, 21. I. 1915). Diplomirao (1939) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od osnutka do danas. Rukovodi projektiranjem hidroelektrana Vinodol, Gojak, Fužine, te sudjeluje u nadzoru nad izradom projekata svih hidroelektrana i značajnijih hidrotehničkih objekata koji su rađeni u Elektroprojektu.



Žugaj, Mladen, Slavonski Brod, 21/1/1915. Manager of Civil Engineering Department. Professor, D.Sc. (Civ. Eng.) Graduated in 1939 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt since its foundation, to date. Headed design engineering of HPPs Vinodol, Gojak, Fužine, and participated in the supervision of the development of design documentation for all HPPs and major



Na građevinskom fakultetu u Zagrebu bio je prvo honorarni predavač, a redoviti profesor od 1972. do umirovljenja 1985. Istovremeno je u Elektroprojektu do 1994. bio predsjednik Stručnog savjeta Hidrobiroa. 1947. Godine osnovao je Laboratorij za hidraulička istraživanja koji je odigrao važnu ulogu pri projektiranju i gradnji niza hidrotehničkih građevina. Član je većeg broja stručnih udruga i njihovih upravnih tijela. Za svoj rad primio više službenih priznanja.

hydraulic facilities ever produced in Elektroprojekt. He first worked as a part-time professor at the Faculty of Civil Engineering, and as a full professor from 1972 until his retirement in 1985. Concurrently, until 1994 he was President of the Design Review Council of the Hydraulic Engineering Department within Elektroprojekt. In 1947 he founded the Laboratory for Hydraulic Research, which played an important role in project design and construction of a number of hydraulic facilities. Member of a number of professional associations, as well as their management bodies. Recipient of several official commendations in recognition of his work.

Ključni stručnjaci Elektroprojekta - prije i sada

Former and present Specialists Occupying Key Posts within Elektroprojekt

Babić, Darko, voditelj odjela, dipl. ing. el. (Zagreb, 8. VIII. 1954). Diplomirao (1977) na Elektrotehničkom fakultetu u Zagrebu. Od 1985. u Elektroprojektu. Radi na projektima transformatorskih stanica i rasklopnih postrojenja RP Plomin, RP Dubrava, TS Zadar-centar, TS Sušak, TS Siscia, TS Ernestinovo, HE New Martinsville, PTE Dujmovača, KLE Drave i Mure. Član HK CIGRE.

Babić Darko, Zagreb, 8/8/1954. Section Head. dipl. ing. (Elec. Eng.). Graduated in 1977 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt since 1985 on the following projects (substations and switchyards): SY Plomin, SY Dubrava, SS Zadar-centre, SS Sušak, SS Siscia, SS Ernestinovo, HPP New Martinsville, GTPP Dujmovača, HPSCC Drava and Mura. Member of CIGRE.

Baborsky, Miljenko, samostalni projektant, dipl. ing. stroj. (Zagreb, 17. IV. 1963). Diplomirao (1987) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1987. u Elektroprojektu. Radi na projektu TE Plomin 2, na parnoturbinskom postrojenju i pomoćnim postrojenjima, te na projektima rashladnih sustava za TE Tuzla, ELTO i TE-TO Zagreb, TE-TO Osijek te PTE Zagreb Zapad. Od 1994. vodi niz studija i idejnih projekata za primjenu kogenerativnih postrojenja u domaćoj industriji.

Baborsky, Miljenko, Zagreb, 17/4/1963. Senior Design Engineer. dipl. ing. (Mech. Eng.). Graduated in 1987 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1987. Engaged in the following projects: TPP Plomin 2, steam-turbine plant and auxiliary plants, cooling systems designs for TPP Tuzla, Cogeneration Plants Zagreb and Osijek, and GTPP Zagreb Zapad. Since 1994 he has headed a number of studies and conceptual designs for the application of cogeneration plants in local industry.

Barišić, Stjepan, vodeći projektant, dipl. ing. el. (Mostar, 12. II. 1947). Diplomirao (1978) na Elektrotehničkom fakultetu u Banjoj Luci. Od 1988. do 1999. u Elektroprojektu. Radi na projektu TE Plomin 2. Od 1992. do 1999. radi kao voditelj odjela Sustavi vođenja u Strojarsko-tehnološkom birou, te na projektima PTE Dujmovača, PTE Zagreb Zapad, na VT plinovodu Botinec EL-TO i KKE TE-TO Zagreb.

Barišić, Stjepan, Mostar, 12/2/1947. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1978 from the Faculty of Electrical Engineering in Banja Luka. Employed in Elektroprojekt from 1988 to 1999. Engaged in the Plomin 2 project. From 1992 to 1999 occupied the post of Head of Process Control Systems Section, as well as working on the following projects: GTPP Dujmovača, GTPP Zagreb Zapad, HP gas pipeline Botinec to GTPP Zagreb Zapad, and Combined-Cycle Cogeneration Power Plant Zagreb.



Bjedov, Todor, vodeći projektant, dipl. ing. građ. (Mokro Polje, 20. X. 1939). Diplomirao (1966) na Građevinskom fakultetu u Zagrebu. Od 1969. u Elektroprojektu. Radi na projektima HE Zoretići, RHE Obrovac te irigacijskom projektu Sarakhs u Iranu. Sudjeluje na projektima hidroelektrana Varaždin, Čakovec, Dubrava Đurđevac i Barč. Vodi, koordinira i radi projekte HE Krčić Donji, HE Krčić Gornji, HE Lešće, HE Novo Virje kao i studije o višenamjenskom korištenju voda slijeva rijeka Krke i Zrmanje te voda Ličkog platoa.

Borčić, Dejan, vodeći projektant, dipl. ing. građ. (Zagreb, 21. VII. 1927 - 20. II. 1999). Diplomirao (1954) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu radi od 1954. do odlaska u mirovinu 1991. Vodio je projekte HE Đale, Akumulacije i brane Ričica, HE Golubić, HE Žur te irigacijskog sustava Mahabad u Iranu. Radio na projektima HE Senj, HE Split, HE Orlovac i drugima.

Cerovac, Marijan, stručni savjetnik, dipl. ing. građ. (Sisak, 5. XII. 1925). Diplomirao (1953) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. Od 1974. u Elektroprojektu. Vodeći projektant na projektiranju i nadzoru projekata (u Hrvatskoj i inozemstvu) hidroelektrana, crpnih stanica, regulacija rijeka, melioracija, ravnaju terena, projekta luke za podmornice, od kojih su najvažniji projekti irigacijskih sustava El Zawia u Egiptu i Mahabad u Iranu te HE Đale. Od 1991. stručni savjetnik. Aktivan i kao izjavitelj Stručnog vijeća Elektroprojekta.

Crnčić, Tomislav, pomoćnik direktora Strojarsko-tehnološkog biroa, mr. sc., dipl. ing. stroj. (Zagreb, 16. II. 1950 - Martin, Slovačka, 2. III. 1997). Diplomirao (1975) i magistrirao (1980) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1984. u Elektroprojektu. Vodi projekt TE Plomin 2, radi na tenderu i evaluaciji ponuda za NE Prevlaka, vodi izradu studije izvodljivosti revitalizacije bloka 1 i 2 u TE-TO Zagreb. Od 1994. pomoćnik direktora Strojarsko-tehnološkog biroa. Poginuo u prometnoj nesreći na službenom putu u Slovačkoj.

Cvitan, Neven, voditelj odjela, dipl. ing. građ. (Zemun, 12. IX. 1946). Diplomirao (1971) na Građevinskom fakultetu u Zagrebu. Od 1971. do 1999. u Elektroprojektu. Radi na projektima TE-TO Osijek, HE Brodarci, HE Golubić, HE Podsused, HE Kosinj, HE Senj 2, HE Dubrava, TS Bjelovar, TS Zagreb, KPV EL-TO Zagreb-rekonstrukcija, Centra za radijacijsku medicinu i zaštitu - KBC Zagreb, te kao glavni

Bjedov, Todor, Mokro Polje, 20/10/1939. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1966 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1969. Engaged in the following projects: HPP Zoretići, PSPP Velebit, and the Sarakhs irrigation system in Iran. Participated in the following projects: HPPs Varaždin, Čakovec, Dubrava, Đurđevac and Barč. Leads, co-ordinates and develops design documentation for HPP Krčić Donji, HPP Krčić Gornji, HPP Lešće, HPP Novo Virje. Prepares multipurpose river-basin development studies for the Rivers Krka and Zrmanja, and the waters of the Lika plateau.

Borčić, Dejan, Zagreb, 21/7/1927 - Zagreb, 20/2/1999. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1954 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1954 until this retirement in 1991. Managed the following projects: HPP Đale, the Ričica Reservoir and Dam, HPP Golubić, HPP Žur and the Mahabad irrigation system in Iran. Worked on the HPP Senj, HPP Split, HPP Orlovac projects, as well as others.

Cerovac, Marijan, Sisak, 5/12/1925. Consultant. dipl. ing. (Civ. Eng.). Graduated in 1953 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt since 1974. Lead Design Engineer in design and supervision of projects in Croatia and abroad - HPPs, pumping stations, river training, land reclamation, grading, submarine port project. The most significant projects in which he was involved were irrigation systems Al Zawia in Egypt and Mahabad in Iran, as well as HPP Đale. Since 1991 he has been employed as a consultant. He is also active as a referee in Elektroprojekt Design Review Council.

Crnčić, Tomislav, Zagreb, 16/2/1950 - Martin, Slovakia, 2/3/1997. Deputy Manager of the Mechanical and Process Engineering Department. M.Sc. (Mech. Eng.). Graduated in 1975. Acquired his Master's Degree in 1980 at the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt from 1984. Managed the TPP Plomin 2 project; involved in the preparation of tender documentation and bids evaluation for NPP Prevlaka; led the development of feasibility studies for refurbishment of units 1 and 2 in the Cogeneration Plant Zagreb. From 1994, Deputy Manager of the Mechanical and Process Engineering Department. Died in a traffic accident while on business trip in Slovakia.

Cvitan, Neven, Zemun, 12/9/1946. Section Head. dipl. ing. (Civ. Eng.). Graduated in 1971 from the Faculty of Civil Engineering, Zagreb. Employed in Elektroprojekt from 1971 to 1999 on the following projects: Cogeneration Plant Osijek, HPP Brodarci, HPP Golubić, HPP Podsused, HPP Kosinj, HPP Senj 2, HPP Dubrava, SS Bjelovar, SS Zagreb, chemical water treatment plant for the



nadzorni inženjer za objekt Poslovna zgrada Ingra-Elektroprojekt.

Cvitanich, Joško, vodeći projektant, dipl. ing. el. (Jelsa, 19. III. 1930 - Zagreb, 10. III. 1994). Diplomirao (1960) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1952. do 1954. i od 1960. do 1994. u Elektroprojektu. Radi na projektima TS Tumbri, TE Rijeka-Urinj, TE Plomin 2, TE Dujmovača, te na projektu energane Željezare Skoplje. Također radi u nadzoru izgradnje irigacijskog sustava El Zawia, te na projektiranju i nadzoru DE Wadi el Natroun. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.

Čalogović, Marko, umirovljeni profesor Sveučilišta u Zagrebu (Zagreb, 12. V. 1915). Diplomirao (1939) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od njegova osnutka do 1963. Radi kao vodeći projektant i specijalist za statiku i hidrotehničke konstrukcije na projektiranju i nadzoru te savjetovanju za veći broj objekata hidroelektrana, termoelektrana u Hrvatskoj i inozemstvu (Iran, Alžir), a posebno za dolinske pregrade, hidrotehničke tunele te specijalna fundiranja većih objekata, naročito čeličnih tlačnih cjevovoda (HE Orlovac, HE Velebit). Nakon umirovljenja (1982) radi ponovo u Elektroprojektu kao savjetnik i konzultant te revident Stručnog vijeća za konstruktivne projekte.

Čizmek, Zlatko, vodeći projektant, dipl. ing. arh. (Zagreb, 1. I. 1946). Diplomirao (1970) na Arhitektonskom fakultetu u Zagrebu. Od 1974. u Elektroprojektu. Radi na projektima HE Đurđevac, HE Golubić, HE Krčić, HE Lepenica, RHE Velebit-Obrovac, HE Đale, HE Podsused, HE Virje, HE Ombla, HE Zakućac-revitalizacija, TE Rijeka-Urinj, PTE Osijek, TS Zagreb, TS Ernestinovo. Također radi na projektima vodocrpilišta Strmec, Kosnica, Lokve na crpnoj stanici Ravne Njive-Split te na projektu i nadzoru poslovne zgrade Ingra-Elektroprojekt. Nagrađen za arhitektonsko ostvarenje na "XIV. zagrebačkom salonu" za projekt objekata PTE Osijek i TS Ernestinovo.

Franković, Borislav, tehnički savjetnik, dipl. ing. građ. (Zagreb, 8. VIII. 1931). Diplomirao (1956) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od 1957. Glavni hidraulički inženjer i voditelj mnogih fizičkih modela izrađenih za tuzemstvo i inozemstvo. Vodi izradu projekata, nadzire građenje, vodi pokusni

Cogeneration Plant Zagreb - reconstruction, Centre for Radiation Medicine and Protection - Clinic Hospital Centre, Zagreb. He was also Chief Supervisor at the INGRA- Elektroprojekt office building project.

Cvitanich, Joško, Jelsa, 19/3/1930 - Zagreb, 10/3/1994. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1960 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1952 to 1954, and from 1960 to 1994. Engaged in the following projects: SS Tumbri, TPP Rijeka-Urinj, TPP Plomin 2, GTPP Dujmovača, as well as on the powerhouse project for the Skopje Steel Works. Involved in the supervision of the construction of the El Zawia irrigation system, and in the project design and supervision of DPP Wadi el Natroun. Member of CIGRE Croatian Committee. Recipient of several commendations and awards in recognition of his work.

Čalogović, Marko, Zagreb, 12/5/1915. Retired Professor at the University of Zagreb. Graduated in 1939 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from its foundation until 1963 as Lead Design Engineer and specialist for statics and hydro-technical structures. Involved in project design and supervision, as well as a consultant, for a considerable number of HPPs and TPPs both in Croatia and abroad (Iran and Algeria). His specialisations were dams, power tunnels and special foundations for major facilities, in particular steel penstocks (HPP Orlovac, PSPP Velebit). Following his retirement in 1982 he continued to work in Elektroprojekt as a consultant and Reviewer within the Design Review Council, for projects of structures.

Čizmek, Zlatko, Zagreb, 1/1/1946. Lead design engineer. dipl. ing. (Arch.). Graduated in 1970 from the Faculty of Architecture in Zagreb. Employed in Elektroprojekt since 1974 and has been involved in the following projects: HPP Đurđevac, HPP Golubić, HPP Krčić, HPP Lepenica, RHPP Velebit, HPP Đale, HPP Podsused, HPP Virje, HPP Ombla, HPP Zakućac - refurbishment, TPP Rijeka - Urinj, GTPP Osijek, SS Zagreb, SS Ernestinovo. He also worked on the well fields Strmec, Kosnica, Lokve, the pumping station Ravne Njive - Split, as well as being involved in the design and supervision of the INGRA-Elektroprojekt office building. Awarded a prize at the "XIV Zagreb Salon" for architectural design of the GTPP Osijek and Ernestinovo facilities.

Franković, Borislav, Zagreb, 8/8/1931. Technical Advisor. dipl. ing. (Civ. Eng.). Graduated in 1956 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt since 1957. Chief hydraulics engineer and leader of numerous scale models for projects home and abroad. Design development leader,



pogon, te radi na održavanju triju velikih - Varaždin, Čakovec i Dubrava i pet malih hidroelektrana na rijeci Dravi. Vodi projekte i nadzire izgradnju betonskih objekata brane Sidi Yacoub u Alžiru. Vodi izradu studije izvodljivosti za popravne radove na High Aswan Dam Power Station. Vodi izradu mnogih studija, recenzija i ekspertiza. Radi u međunarodnoj komisiji za korištenje i uređenje Drave. Od 1962. do 1984. bio honorarni asistent, a od 1985. do 1995. vodio katedru Iskorištenje vodnih snaga na Građevinskom fakultetu u Zagrebu. Objavio mnoge znanstvene radove i sudjelovao referatima na mnogim domaćim i inozemnim skupovima. Godine 1983. dobio nagradu Fonda "Jaroslav Černi" za HE Čakovec. Dobio dva odličja.

Füllepp, Abdon, vodeći projektant, dipl. ing. el. (Topolovac, 30. VII. 1920). Diplomirao (1947) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1952. do 1982. u Elektroprojektu. Radi na projektima TS Melina, hidroelektranama Peruća, Brodarci i Strelečko, te na PTE Jertovec. U inozemstvu radi na hidroelektranama Adola i Ramu te na irigacijskom sustavu El Zawia. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.

Gojčeta, Štefica, glavna knjigovotkinja, oec. (Okešinci, 20. XI. 1932). Završila (1974) Višu ekonomsku školu u Zagrebu. U Elektroprojektu od 1958. do 1985. Obavljala knjigovodstvene poslove za poslovanje u inozemstvu. Za svoj rad primila više službenih priznanja.

Glowatzky, Bernarda, voditeljica Službe općih i pravnih poslova, dipl. iur. (Pregrada, 3. IV. 1950). Diplomirala (1974) na Pravnom fakultetu u Zagrebu. Od 1989. u Elektroprojektu. Vodi službu i obavlja sve pravne poslove za tvrtku. Članica radnog tima za pretvorbu Elektroprojekta u dioničko društvo.

Grbin, Ivo, rukovoditelj Službe općih i pravnih poslova, dipl. iur. (Zagreb, 3. X. 1936). Diplomirao na Pravnom fakultetu u Zagrebu. Od 1964. do 1972. u Elektroprojektu. Vodi službu i obavlja sve pravne poslove za tvrtku.

Grgić, Ivan, voditelj odjela, dipl. ing. građ. (Virje, 9.VII.1935). Diplomirao (1964) na Građevinskom fakultetu u Zagrebu. U Elektroprojektu od 1970. Nadzorni inženjer i šef nadzora za natapni sustav višenamjenskog projekta Mahabad. Od 1979. do 1987. vodeći projektant na projektima VS Đurđevac i Barč te na projektu

building supervisor, trial runs overseer, as well as being involved in the maintenance of three large HPPs (Varaždin, Čakovec and Dubrava), and five smaller HPPs on the River Drava. He was project leader and supervisor of concrete elements for the Sidi Yacoub Dam in Algeria. Headed the production of a number of studies (e.g. Feasibility Study for High Aswan Dam Power Station), reviews and expert opinions. Member of the International Commission for Development of the River Drava. From 1962 to 1984 he was employed as a part-time assistant, and from 1985 to 1995 he headed the Department for utilisation of water resources, at the Faculty of Civil Engineering in Zagreb. He has published numerous scientific papers and has participated in many local and foreign congresses. In 1983 he was awarded a prize by the Jaroslav Černi Fund for HPP Čakovec. Recipient of two medals.

Füllepp, Abdon, Topolovac, 30/7/1920. Lead design engineer. dipl. ing. (Elec. Eng.). Graduated in 1947 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1952 to 1982 on the following projects: SS Melina, HPPs Peruća, Brodarci and Strelečko, GTPP Jertovec. Abroad, he was engaged in HPPs Adola and Ramu, and on the El Zawia irrigation system. Member of CIGRE Croatian Committee. Recipient of a number of awards and commendations in recognition of his work.

Gojčeta, Štefica, Okešinci, 20/11/1932. Senior Accountant, oec. Graduated in 1974 from two-year College of Economy in Zagreb. Employed in Elektroprojekt from 1958 to 1985. Accountant for operations abroad. Recipient of a number of awards.

Glowatzky, Bernarda, Pregrada, 3/4/1950. Head of Corporate Services. dipl. iur. Graduated in 1974 from the Faculty of Law in Zagreb. Employed in Elektroprojekt since 1989, heading Services and performing all legal activities on behalf of the company. Member of the working team responsible for the transformation of Elektroprojekt into a joint stock company.

Grbin, Ivo, Zagreb, 3/10/1936. Head of the General Administrative and Legal Services. dipl. iur. Graduated from the Faculty of Law in Zagreb. Employed in Elektroprojekt from 1964 to 1972 as Head of Services where he performed all legal activities on behalf of the company.

Grgić, Ivan, Virje, 9/7/1935. Section Head. dipl. ing. (Civ. Eng.). Graduated in 1964 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1970. Supervisor and Chief Supervisor for the irrigation system within the multi-purpose Mahabad project. From 1979 to 1987 he was Lead design engineer



izvedenog stanja građevinskih radova za NE Krško. Vodi projekt NE Prevlaka i to evaluaciju lokacije, idejni projekt, natječajnu dokumentaciju za izbor tehnologije i izbor izgradnje. Od 1990. voditelj ispostave Elektroprojekta u Iranu, od 1996. voditelj Odjela za pripremu i praćenje izgradnje, a od 1998. i pomoćnik direktora Hidro-građevinskog biroa.

Guštin, Andrej, mr. sc., voditelj Službe osiguravanja kakvoće, dipl. ing. građ. (Ljubljana, 13. XII. 1939). Diplomirao (1965) i magistrirao (1983) na Građevinskom fakultetu u Zagrebu. U Elektroprojektu od 1974. Radi kao vodeći projektant do 1998. na projektiranju hidroelektrana. Od 1998. obnaša dužnost voditelja Službe osiguravanja kakvoće i tajnika Stručnog vijeća Elektroprojekta.

Hanich, Mirko, vodeći projektant, dipl. ing. građ. (Pakračka Poljana, 27. VI. 1932 - Zagreb, 12. II. 1982). Diplomirao (1961) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od 1961. do 1968. i od 1970. do 1985. Odgovorni projektant za dio irigacijskog sustava Urumieh. Suradivao na projektima HE Obrovac, HE Senj, kao i na projektima Gadar Chai i Little Zab u Iranu, te Awassa i Abbaya Chamo u Etiopiji.

Hendrich, Mirko, vodeći projektant, dipl. ing. el. (Osijek, 11. VIII. 1921). Diplomirao (1950) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1958. do 1980. u Elektroprojektu. Radi na projektima HE Rijeka-Urinj, HE Senj, TE Osijek i PTE Osijek. Također radi na irigacijskom sustavu El Zawia. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.

Hladki, Dubravko, voditelj odjela, dipl. ing. stroj. (Zagreb, 21. VII. 1954). Diplomirao (1978) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1989. u Elektroprojektu. Voditelj odjela Kotlovska postrojenja od 1992., a potom od 1999. voditelj odjela Ekološko inženjerstvo. Vodi projekte i poslove inženjeringa na TE Plomin 1 i 2, TE Sisak, TE-TO Zagreb, EL-TO Zagreb, TE Tuzla i TE Kakanj. Od 1998. član Stručnog vijeća Elektroprojekta.

Horvat, Krešimir, mr. sc., samostalni projektant specijalist, dipl. ing. građ. (Zagreb, 3. IX. 1938). Diplomirao (1968) na Građevinskom fakultetu u Zagrebu, magistrirao (1981) na Građevinskom fakultetu u Zagrebu - područje geotehnike. U Elektroprojektu od 1991. Radi

for the HPS Đurđevac and Barč projects, and on the as-built documentation development for civil works for NPP Krško. Project leader for NPP Prevlaka - specifically for evaluation of site, conceptual design, and tender documentation for the selection of technology and concept. From 1990, Resident Manager of Elektroprojekt Office in Iran, and from 1996 Head of the Construction Preparation and Supervision Section, and from 1998 Deputy Manager of the Hydro and Civil Engineering Department.

Guštin, Andrej, Ljubljana, 13/12/1939. M.Sc. (Civ. Eng.). Head of Quality Assurance Service. Graduated in 1965 and acquired his Master's Degree in 1983 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1974. Up until 1998 he was Lead Design Engineer on HPP projects. Since 1998 has occupied the post of Head of Quality Assurance Service and Secretary of Elektroprojekt Design Review Council.

Hanich, Mirko, Pakračka Poljana, 27/6/1932 - Zagreb, 12/2/1982. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1961 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1961 to 1968, and from 1970 to 1985. Senior Design Engineer for a section of the Urumieh irrigation system. Co-operated in the PSPP Velebit and HPP Senj projects, as well as in the Gadar Chai and Little Zab projects in Iran, and Awassa and Abbaya Chamo in Ethiopia.

Hendrich, Mirko, Osijek, 11/8/1921. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1950 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1958 to 1980. Involved in the following projects: HPP Rijeka - Urinj, HPP Senj, TPP Osijek, and GTPP Osijek. Also worked on the El Zawia irrigation system. Member of CIGRE Croatian Committee. Recipient of several commendations and awards in recognition of his work.

Hladki, Dubravko, Zagreb, 21/7/1954. Section Head. dipl. ing. (Mech. Eng.). Graduated in 1978 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1989. Head of the Boiler Plant Section from 1992. In 1999 he became Head of the Environmental Engineering Section. Manages projects and engineering activities in TPP Plomin 1 and 2, TPP Sisak, Cogeneration Plants in Zagreb, TPP Tuzla and TPP Kakanj. Member of the Elektroprojekt Design Review Council since 1998.

Horvat, Krešimir, Zagreb, 3/9/1938. Senior Design Engineer/Specialist. M.Sc. (Civ. Eng.). Graduated in 1968 and acquired his Master's Degree (thesis: Geotechnics) in 1981 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt



na projektima nasutih brana, zbrinjavanja odlagališta smeća, hidroelektrana i plinsko turbinskih elektrana u okviru područja geotehničkog inženjerstva. Član većeg broja stručnih udruga u Hrvatskoj i International Society on Soil Mechanics and Foundations Engineering (ISSMFE).

Ivanišević, Zdenka, samostalna projektantica, dipl. ing. građ. (Zagreb, 19. VII. 1943). Diplomirala na Građevinskom fakultetu u Zagrebu. Od 1985. do 1997. zaposlena u Elektroprojektu. Radi na projektima HE Đale, TE Plomin 2, PTE Dujmovača, poslovne zgrade INGRA-Elektroprojekt, HE Podsused, rasklopnih postrojenja TS Tumbri i TS Melina, antenskih stupova te crpne stanice Ravne Njive. Članica više stručnih udruga te državni revident za armirano-betonske i zidane konstrukcije objekata visokogradnje.

Jančijev, Tomislav, voditelj Službe razvitka i promidžbe, dipl. ing. brod. (Zagreb, 11. XII. 1943). Diplomirao (1969) na Fakultetu strojarstva i brodogradnje u Zagrebu. U Elektroprojektu od 1985. radi na razvoju i primjeni računalnih programa za proračune iz područja teorije konstrukcija, hidraulike i termodinamike. Kao stručnjak Elektroprojekta radi na projektima tvrtki Elektrowatt Zürich, Westinghouse Bruxelles i Mahab Ghods Teheran. Od 1990. vodi razvitak poduzeća, a nakon toga Službu razvitka i promidžbe. Objavio dvadesetak stručnih i znanstvenih radova. Od 1992. predsjednik Upravnog odbora, a potom od 1995. predsjednik Nadzornog odbora dioničkog društva.

Jurić, Davor, vodeći projektant, dipl. ing. el. (Konjic, 26. VIII. 1952). Diplomirao (1976) na Elektrotehničkom fakultetu u Zagrebu. Od 1976. do 1979. i od 1980. do 1989. u Elektroprojektu. Radi na projektima telekomunikacija objekata TE Negotino, TE Sisak, NE Krško, RR veze JUGEL-a i vodi izradu projekta Komande lanca elektrana Varaždin, te izradu programa za proračun mikrovalnih veza RRS 88.

Jurković, Janko, samostalni projektant specijalist, dipl. ing. građ. (Zagreb, 23. III. 1947). Diplomirao (1971) i apsolvirao (1977) poslijediplomski studij sanitarnog smjera na Građevinskom fakultetu u Zagrebu. Završio Ekološku školu Otvorenog sveučilišta u Zagrebu (1994). U Elektroprojektu od 1972. Radi na projektima vodoopskrbe, kanalizacije i zaštite zaobalja za gotovo sve energetske objekte i studije višenamjenskoga korištenja voda. Radi i vodi projekte vodovoda Tribalj-Petrokemija Omišalj te vodoopskrba Rezayah, Maknussa i Wadi Tanezof, CS Ravne Njive, vodocrpilišta za grad Zagreb, odvodnje površinskoga kopa ugljena i odlagališta otpada. Od 1992. do 1999. voditelj Odjela za vodoopskrbu i kanalizaciju.

since 1991. Involved in the following projects: earth-fill dams, waste dumps remediation, HPPs and gas-turbine power plants - all within the framework of geotechnical engineering. Member of a number of professional associations in Croatia, and of the International Society of Soil Mechanics and Foundation Engineering (ISSMFE).

Ivanišević, Zdenka, Zagreb, 19/7/1943. Senior Design Engineer. dipl. ing. (Civ. Eng.). Graduated from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1985 to 1997. Involved in the following projects: HPP Đale, TPP Plomin 2, GTPP Dujmovača, INGRA-Elektroprojekt Office Building, HPP Podsused, Switchyards SS Tumbri and SS Melina, Antenna poles and the Ravne Njive pumping station. Member of several professional associations; State Reviewer for Reinforced Concrete and Masonry Structures.

Jančijev, Tomislav, Zagreb, 11/12/1943. Head of Development and Advertising Services. dipl. ing. (Nav. Arch.). Graduated in 1969 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1985 on the development and application of computer programmes for calculations in the field of theories of structures, hydraulics and thermal dynamics. An Elektroprojekt expert engaged in the Elektrowatt Zürich, Westinghouse Brussels and Mahab Ghods Teheran projects. From 1990, in charge of company development, following which he headed Development and Advertising Services. Author of around a dozen professional and scientific papers. From 1992, President of the Management Board, and from 1995 President of the Joint Stock Company Supervisory Board.

Jurić, Davor, Konjic, 26/8/1952. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1976 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt from 1976 to 1979 and from 1980 to 1989. Engaged on the following projects: telecommunications of TPP Negotino, TPP Sisak, NPP Krško, and JUGEL radio-relay links. Leader of design development for Varaždin Hydropower System Control Centre, and for development of programme for calculations of microwave links RRS 88.

Jurković, Janko, Zagreb, 23/3/1947. Senior Design Engineer/Specialist. dipl. ing. (Civ. Eng.). Graduated in 1971 and fulfilled all legal requirements for completion of postgraduate study in 1977 (specialisation: sanitary technology) at the Faculty of Civil Engineering in Zagreb. Completed studies at the School of Ecology in 1994 at the Open University in Zagreb. Employed in Elektroprojekt from 1972. Engaged in projects for water supply, sewerage and protection of the river valleys for almost all the power generation facilities and studies of multi-purpose water utilisation. Works on and manages the following projects: waterworks Tribalj - Petrokemija Omišalj, and the water supply systems Rezayah,



Kalogjera, Ante, voditelj kompleksnih projekata, dipl.ing.stroj. (Zagreb, 23. VIII. 1938 - Zagreb, 28. X. 1992). Diplomirao (1962) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1964. u Elektroprojektu. Vodio izvedbeni projekt kemijske pripreme vode u FCP Matroz, glavni projekt PTE Osijek, glavni projekt pomoćnih sustava TE Negotino, glavni projekt glavnog toplovoda u Zagrebu. Radio na idejnom projektu NE Prevlaka, kao i na izradi projekta izvedenog stanja u NE Krško.

Kostović, Antonija, glavna knjigovodkinja (Zagreb, 19. V. 1923). Završila Trgovačku akademiju u Zagrebu. Od 1951. do 1978. u Elektroprojektu obavljala knjigovodstvene poslove za poslovanje u zemlji. Za svoj rad primila više službenih priznanja.

Kurtagić, Meho, znanstveni suradnik, dr. sc., dipl. ing. kult. teh. (Vlasenica, 14.VIII.1912 - Zagreb, 10.I.1995). Diplomirao (1938) na Tehničkom fakultetu u Pragu, doktorirao (1956) u Zagrebu. Od 1958. do 1959. i od 1961. do 1979. u Elektroprojektu. Radio na projektima velikih hidrotehničkih sustava Washawng i Nanlet u Burmi, Mahabad, Salmas, Urumieh, Little Zab i Sarakhs u Iranu, Maknussa, Gatrun, Abbaya Chamo, Awassa i Wabi Shebeli u Etiopiji, El Zawia u Egiptu i dr.

Kuzmić, Antiša, voditelj odjela, dipl. ing. brod. (Zagreb, 6. IX. 1954). Diplomirao (1980) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1989. u Elektroprojektu. Radi statičke proračune, proračune elastičnosti i čvrstoće cjevovoda te obavlja projektantski nadzor u poslovima za NE Krško, TE Plomin 1 i 2, TE Sisak, TE-TO Zagreb, PTE Osijek, EL-TO Zagreb te Sektor za toplinarstvo. Projektant nosive kotlovske konstrukcije s dimnjacima na PTE Zagreb. Vodi odjel Toplinarstvo i opskrba energijama.

Lešković-Cvejić, Danica, voditeljica računovodstva, dipl. oec. (Zagreb, 18. IX. 1922). Diplomirala na Visokoj privrednoj školi u Zagrebu. U Elektroprojektu od 1955. do 1973. Za svoj rad primila više službenih priznanja.

Leušić, Zorka, vodeća projektantica, dipl. ing. arh. (Zagreb, 16. XII. 1924). Diplomirala (1951) na Arhitektonskom fakultetu u Zagrebu. Od 1956. do 1980. u Elektroprojektu. Radi na projektima HE

Maknussa and Wadi Tanezoft, pumping station Ravne Njive, well fields for the Zagreb, drainage system for strip coal mine and municipal waste landfills. From 1992 to 1999, Head of Water Supply and Sewage Systems Section.

Kalogjera, Ante, Zagreb, 23/8/1938 - Zagreb, 28/10/1992. Project manager. dipl. ing. (Mech. Eng.). Graduated in 1962 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt from 1964. Led development of detailed design for chemical water treatment in the Matroz factory, the final design for GTPP Osijek, the final design of auxiliary systems for TPP Negotino, and the final design for the main hot water pipeline in Zagreb. Worked on the conceptual design of NPP Prevlaka, as well as on preparation of as-built documentation for NPP Krško.

Kostović, Antonija, Zagreb, 19/5/1923. Chief Accountant. Completed Trade Academy in Zagreb. Employed in Elektroprojekt from 1951 to 1978 on accountancy activities for home-based operations. Recipient of several official commendations in recognition of her work.

Kurtagić, Meho, Vlasenica, 14/8/1912 - Zagreb, 10/1/1995. Scientific Advisor. D.Sc., (Rural Eng.). Graduated in 1938 from the Technical Faculty in Prague. Gained his Doctorate in 1956 in Zagreb. Employed in Elektroprojekt from 1958 to 1959, and from 1961 to 1979. Involved in projects of large-scale hydraulic systems of Washawng and Nanlet in Burma; Mahabad, Salmas, Urumieh, Little Zab, and Sarakhs in Iran; Maknussa, Gatrun, Abbaya Chamo, Awassa and Wabi Shebeli in Ethiopia, El Zawia in Egypt, and others.

Kuzmić, Antiša, Zagreb, 6/9/1954. Section Head. dipl. ing. (Nav. Arch.). Graduated in 1980 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1989. Engaged in stress and strain analyses, calculations of pipeline elasticity and strength, and worked as a supervisor in activities performed for NPP Krško, TPP Plomin1 and 2, TPP Sisak, Cogeneration Plant Zagreb, GTPP Osijek, Cogeneration Plant Zagreb, as well as for the District Heating Sector. He is the author of the design for the support boiler structure with stacks for the GTPP Zagreb. Section Head, District Heating and Distribution Systems.

Lešković-Cvejić, Danica, Zagreb, 18/9/1922. Head of Accounting Section. dipl. oec. Graduated from the High School for Economics in Zagreb. Employed in Elektroprojekt from 1955 to 1973. Recipient of several official commendations in recognition of her work.

Leušić, Zorka, Zagreb, 16/12/1924. Lead Design Engineer. dipl. ing. (Arch.). Graduated in 1951 from the Faculty of Architecture in Zagreb. Employed in Elektroprojekt from 1956 to 1980. Involved in



Orlovac, RHE Velebit-Obrovac, HE Senj 2, TE Plomin 1, PTE Osijek, DIP Beliše, Željezara Sisak, TS Ernestinovo, TS Zagreb, TS Mraclin, TS Zadar, TS Bjelovar, TS Virovitica, TS Đakovo, TS Zabok, TS Sisak, TS Brinje, TS Lički Osik, TS Pula, TS Buje, TS Međurič. Nagrađena za arhitektonsko ostvarenje na "XIV. zagrebačkom salonu" za projekte objekata PTE Osijek i TS Ernestinovo.

Linke, Božidar, vodeći projektant, dipl. ing. el. (Zagreb, 22. XII. 1945). Diplomirao (1972) na Elektrotehničkom fakultetu u Zagrebu. U Elektroprojektu od 1985. Radi na projektiranju, nadzoru tijekom izgradnje te puštanju u pogon razne opreme i sustava za regulaciju i upravljanje u NE Krško. Od 1999. voditelj Grupe za MRU u Elektroprojektovoj tvrtki NUKEL d.o.o.

Lukin, Davor, voditelj odjela, dipl. ing. el. (Zagreb, 4. VIII. 1953). Diplomirao (1976) na Elektrotehničkom fakultetu u Zagrebu. Od 1996. U Elektroprojektu. Radi na projektima TS Žerjavinec i TS Ernestinovo - obnova i dogradnja, te vodi projekt CNP slijeva rijeke Cetine. Vodi projekt zamjene opreme u NDC-u Zagreb i CDU-ima, te studiju Generalni plan procesne informatike HEP-a. Vodi odjel Procesni sustavi.

Major, Dragutin, vodeći projektant, dipl. ing. el. (Slatina, 23.I.1926). Diplomirao (1951) na Elektrotehničkom fakultetu u Zagrebu. Od 1960. u Elektroprojektu. Radi na projektima telekomunikacija TE-TO Zagreb, EL-TO Zagreb, PTE Osijek, TS Tumbri, TS Ernestinovo, TS Melina, TS Priština, HE Gojak, HE Sklope i HE Varaždin. Vodi Grupi za telekomunikacije do odlaska u mirovinu 1986. Za svoj rad primio više službenih priznanja.

Makovac Dijak, Vjekoslav, vodeći projektant, dipl. ing. građ. (Zagreb, 3. I. 1920 - 8. III. 1998). Diplomirao (1947) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od 1969. do 1979. i od 1982. do 1983. Vodio irigacijski projekt Sarakhs i Ali Abad-Faslabad.

Marasović, Marijan, voditelj odjela, dipl. ing. građ. (Ogulin, 15. VI. 1956). Diplomirao (1979) na Građevinskom fakultetu u Zagrebu. Od 1980. u Elektroprojektu. Radi na projektiranju hidroenergetskih sustava, izvodi matematička modeliranja rušenja brana, matematičko modeliranje i projekte vodoopskrbnih sustava i tlačnih sustava u hidroelektranama. Radi na glavnom projektu i obavlja projektantski nadzor istražnih radova za HES Kosinj i kompenzacijski bazen Gusić polje, idejni projekt HE Senj te studije opravdanosti obnove HE Zakućac i HE Senj. Od 1999. voditelj odjela Iskorištavanje vodnih

the following projects: HPP Orlovac, PSPP Velebit, and HPP Senj 2. TPP Plomin 1, GTPP Osijek, DIP Beliše, Sisak Steelworks, SS Ernestinovo, SS Zagreb, SS Mraclin, SS Zadar, SS Bjelovar, SS Virovitica, SS Đakovo, SS Zabok, SS Brinje, SS Lički Osik, SS Pula, SS Buje, SS Međurič. Awarded a prize at the "XIV Zagreb Salon" for the architectural design GTPP Osijek and SS Ernestinovo.

Linke, Božidar, Zagreb, 22/12/1945. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1972 from the Faculty of Electric Engineering in Zagreb. Employed in Elektroprojekt since 1985 on design, supervision of construction, and commissioning of various kinds of equipment and I & C systems in NPP Krško. From 1999, Leader of the I & C Systems Group in the Elektroprojekt sister company, NUKEL d.o.o.

Lukin, Davor, Zagreb, 4/8/1953. Section Head. dipl. ing. (Elec. Eng.). Graduated in 1976 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt since 1996. Involved in the SS Žerjavinec and SS Ernestinovo - reconstruction and upgrading projects. Project leader of the Control and Servicing of the River Cetina basin, as well as leading the project for equipment replacement in NDC Zagreb and CDUs. He also headed the study for the General plan for processing information technology for the Croatian Power Board. Head of Process Systems Section.

Major, Dragutin, Slatina, 23/1/1926. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1951 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt from 1960. Engaged on the telecommunication designs for Cogeneration Plants in Zagreb, GTPP Osijek, SS Tumbri, SS Ernestinovo, SS Melina, SS Priština, HPP Gojak, HPP Sklope and HPP Varaždin. Headed the Telecommunication Group until his retirement. Recipient of several official commendations in recognition of his work.

Makovac Dijak, Vjekoslav, Zagreb, 3/1/1920-8/3/1998. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1947 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1969 to 1979, and from 1982 to 1983. Project Manager for Sarakhs and Ali Abad-Faslabad.

Marasović, Marijan, Ogulin, 15/6/1956. Section Head. dipl. ing. (Civ. Eng.). Graduated in 1979 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1980. Engaged in design of hydro power systems, develops mathematical models of dam demolition, mathematical models and designs for water supply systems and pressure systems in HPPs. Worked on the final design, and as a project supervisor of investigations, for HPPS Kosinj and the Gusić polje compensation reservoir. He is also the author of the conceptual design for HPP Senj, and of the feasibility studies for the



snaga i hidrotehničke građevine.

Marhofer, Armando, zamjenik direktora Elektro biroa, dipl. ing. el. (Branan, Austrija, 21. X. 1918 - Zagreb, 24. XII. 1989). Diplomirao (1952) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1952. do 1982. u Elektroprojektu. Radi na hidroelektranama Gojak, Senj, Sklope, Varaždin, Čakovec, kao i na RHE Obrovac i Vinodol. Također radi na TE Plomin 1. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.

Marinović, Zlatko, voditelj odjela, mr. sc., dipl. ing. građ. (Split, 19. VI. 1940). Diplomirao (1964) na Građevinskom fakultetu u Zagrebu. Specijalistički tečaj (1967) u Švicarskoj - prednapregnute konstrukcije. Specijalistički tečaj IAEA (1982) u Francuskoj - izbor mjesta za nuklearne elektrane. Magistrirao (1987) na Građevinskom fakultetu u Zagrebu - oskultacije konstrukcija. Od 1967. u Elektroprojektu radi na izradi statičkih i dinamičkih proračuna, elaborata osiguranja kvalitete, obavlja nadzor i savjetovanja na projektima hidrotehničkih objekata, hidroelektrana, tunela, mostova, termoelektrana, rashladnih sustava, visokih dimnjaka, nuklearnih elektrana, kupola, industrijskih postrojenja te stambeno-poslovnih objekata. Projektirao objekte u Švicarskoj, Egiptu, Iranu i Alžiru. Vodi odjel Građevne konstrukcije i betonske brane.

Matjan, Josip, voditelj Službe razvoja i informatike, dr. sc., dipl. ing. el. (Čakovec, 19. IX. 1944). Diplomirao (1968), magistrirao (1972) i doktorirao (1978) na Elektrotehničkom fakultetu u Zagrebu. Od 1974. do 1977. i od 1982. do 1988. u Elektroprojektu. Vodi Službu razvoja i informatike, te izradu informatičkih projekata IS NE Krško, IS HEP-a, IS Rafinerije Zagreb, IS ŽTP-a Zagreb i IS CETRA-e.

Mavar, Bojan, dipl. ing. građ. (Pazin, 2. V. 1915). Diplomirao na Građevinskom fakultetu u Zagrebu. Od 1951. do 1956. i od 1965. do 1979. u Elektroprojektu. Do 1965. radi kao odgovorni statičar na TE Rijeka 1, TE Plomin 1, TE Sisak, TE Jertovec, a od 1965. do 1979. radi kao odgovorni projektant konstruktor na projektima za HE Orlovac, HE Sklope, HE Varaždin i HE Čakovec. Primio priznanja za rad.

Medur, Božidar, vodeći nadzorni inženjer, dipl. ing. građ. (Bjelovar, 20. II. 1917.-1999). Diplomirao (1945) na Građevinskom odsjeku

reconstruction of HPP Zakučac and HPP Senj. Head of Water Power and Hydro Structures Section since 1999.

Marhofer, Armando, Branan, Austria, 21/10/1918 - Zagreb, 24/12/1989. Deputy Manager of Electrical Engineering Department. dipl. ing. (Elec. Eng.). Graduated in 1952 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1952 to 1982. Involved in HPPs Gojak, Senj, Sklope, Varaždin, Čakovec, as well as on the PSPP Velebit and HPP Vinodol. Worked on TPP Plomin 1. Member of CIGRE Croatian Committee. Recipient of several commendations and awards in recognition of his work.

Marinović, Zlatko, Split, 19/6/1940. Section Head. M.Sc. (Civ. Eng.). Graduated in 1964 from the Faculty of Civil Engineering in Zagreb. Attended a specialised course for pre-stressed constructions (1967) in Switzerland, and a specialised course in France organised by the IAEA (1982), on the selection of nuclear power plants sites. Acquired his Master's Degree in 1987 at the Faculty of Civil Engineering in Zagreb (thesis: Structure Behaviour Monitoring). Employed in Elektroprojekt since 1967 on static and dynamic analyses and quality control documentation. Supervisor of and advisor for the following project documentation: HPPs, tunnels, bridges, TPPs, cooling systems, high stacks, NPPs, domes, industrial plants and housing and business premises. Designed projects in Switzerland, Egypt, Iran and Algeria. Head of Civil Structures and Concrete Dams Section.

Matjan, Josip, Čakovec, 19/9/1944. Head of Development and Information Systems Service, D.Sc. (Elec. Eng.). Graduated in 1968. Acquired his Master's Degree in 1972, and his Doctorate in 1978, at the Faculty of Electric Engineering, University of Zagreb. Employed in Elektroprojekt from 1974 to 1977, and from 1982 to 1988. Headed the Development and Information Systems Service, as well as the development of information systems designs for NPP Krško IS, Croatian Electric Industry IS, Refinery Zagreb IS, Railway Transport Company IS, and CETRA IS.

Mavar, Bojan, Pazin, 2/5/1915. dipl. ing. (Civ. Eng.). Graduated from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1951 to 1956, and from 1965 to 1979. Until 1965 he worked as Chief Structural Engineer for TPP Rijeka 1, TPP Plomin 1, TPP Sisak, TPP Jertovec, and from 1965 to 1979 was engaged as Chief Designer responsible for the projects HPP Orlovac, HPP Sklope, HPP Varaždin and HPP Čakovec. Recipient of a number of commendations in recognition of his work.

Medur, Božidar, Bjelovar, 20/2/1917.-1999. Lead Supervisor. dipl. ing. (Civ. Eng.). Graduated in 1945 from the Department of Civil



Tehničkog fakulteta u Zagrebu. U Elektroprojektu od 1963. do 1967. i od 1969. do 1977. Radi na nadzoru izgradnje HE Rijeka i na vođenju izgradnje hidro-melioracijskog sustava Mahabad u Iranu.

Mesarić, Vladimir, tehnički savjetnik, dipl. ing. stroj. (Zagreb, 5. V. 1932 - Zagreb, 21. V. 1996). Diplomirao (1957) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1975. do 1992. u Elektroprojektu. Vodi izradu idejnog i glavnog projekta TE-TO Osijek, idejnog projekta TE-TO Zagreb Istok, TE-TO Zagreb Zapad, glavnog i idejnog projekta TE-TO Rijeka. Sudjeluje na izradi projektne dokumentacije glavnog projekta TE Plomin. Također radi na tenderskoj dokumentaciji za TE Tuzla Blok IV, kao i na idejnom projektu i tenderskoj dokumentaciji za NE Prevlaka.

Milatić, Ivo, samostalni projektant, dipl. ing. građ. (Svirče na Hvaru, 30. IX. 1939). Diplomirao (1970) na Građevinskom fakultetu u Zagrebu. Od 1980. u Elektroprojektu. Radi na projektima RHE Velebit-Obrovac, HE Dubrava, TE Plomin 2, TS Jarun, PTE Dujmovača, PTE Zagreb Zapad, TS Đakovo, TS Krndija, TS Ernestinovo-rekonstrukcija.

Mišetić, Stjepan, dr.sc., viši znanstveni suradnik, samostalni projektant specijalist (Grabovnik, 30. VII. 1945). Diplomirao (1969) na biološkom odjelu Prirodoslovno-matematičkog fakulteta u Zagrebu, magistrirao (1972) na Medicinskom fakultetu u Zagrebu, doktorirao prirodne znanosti (1986) na Sveučilištu u Zagrebu. U Elektroprojektu od 1991. Radi na studijama utjecaja na okoliš za: HE Novo Virje, retenciju Drežničko polje, odlagalište otpada Turčin; monitoring voda i zraka za: odlagalište otpada Trebež, odlagalište otpada Zaprešić, odlagalište otpada Turčin, smetlište Jakuševac.

Mladineo, Luka, vodeći projektant, dipl. ing. građ. (Zadar, 8. VI. 1914 - Zagreb, 15. V. 1994). Diplomirao (1939) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. Od 1949. do 1958. i od 1965. do 1979. u Elektroprojektu. Vodi projekte HE Vinodol, HE Peruća, HE Zavrelje, HE Ozalj, HE Slapovi na Uni, HE Senj, crpnu stanicu Namsang Kha u Burmi, branu Derbendi Khan u Iraku, branu i hidroelektranu Mahabad u Iranu te drugdje. Za svoj rad dobio je više službenih priznanja.

Mojsinović, Josip, vodeći projektant, dipl. ing. građ. (Ljubinje kraj Stoca, 31. VII. 1926). Diplomirao (1950) na Građevinskom fakultetu u Zagrebu. Od 1970. do 1991. u Elektroprojektu. Rukovodi obradama projekata uređenja zemljišta za slijev Vuke, zaobalja HE Đurđevac,

Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1963 to 1967, and from 1969 to 1977. Involved in the supervision of construction of HPP Rijeka, and in construction management at the Mahabad irrigation and reclamation system in Iran.

Mesarić, Vladimir, Zagreb, 5/5/1932 - Zagreb, 21/5/1996. Technical Advisor. dipl. ing. (Mech. Eng.). Graduated in 1957 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt from 1975 to 1992. Headed the development of the conceptual design and the final design for Cogeneration Plant Osijek; conceptual designs for the Cogeneration Plants Zagreb East and West; conceptual design and final design for Cogeneration Plant Rijeka. Participated in the development of design documentation for the final design for TPP Plomin; the tender documents for TPP Tuzla, Unit IV, as well as for the conceptual design and tender documents for NPP Prevlaka.

Milatić, Ivo, Svirče, island of Hvar, 30/9/1939. Senior Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1970 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1980. Involved in the following projects: RHPP Velebit, HPP Dubrava, TPP Plomin 2, SS Jarun, GTPP Dujmovača, GTPP Zagreb Zapad, SS Đakovo, SS Krndija, SS Ernestinovo - reconstruction.

Mišetić, Stjepan, Grabovnik, 30/7/1945. D.Sc. Senior Research Associate. Senior Design Engineer/Specialist. Graduated in 1969 from the Department of Biology, Faculty of Natural Sciences and Mathematics in Zagreb. Acquired his Master's Degree in 1972 at the Faculty of Medicine in Zagreb, and his Doctorate in Natural Sciences in 1986, at the University of Zagreb. Employed in Elektroprojekt since 1991 on environmental impact studies for the following projects: HPP Novo Virje, Drežničko polje retention, the Turčin landfill; water and air monitoring system for the landfill of Trebež, Zaprešić and Turčin, as well as for the Jakuševac dump site.

Mladineo, Luka, Zadar, 8/6/1914 - Zagreb, 15/5/1994. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1939 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1949 to 1958, and from 1965 to 1979. Project leader for HPP Vinodol, HPP Peruća, HPP Zavrelje, HPP Ozalj, HPP Slapovi na Uni, HPP Senj, the Namsang Kha pumping station in Burma, the Derbendi Khan Dam in Iraq, the Mahabad Dam and HPP in Iran, and others. Recipient of a number of official commendations in recognition of his work.

Mojsinović, Josip, Ljubinje, near Stolac, 31/7/1926. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1950 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1970 to 1991. Headed the design documentation development for



HE Barč, HE Moslavina, HE Osijek. Radi vodoprivredne osnove Krke, Zrmanje i Kupe. U inozemstvu radi na irigacijskim sustavima Gatrun, Maknussa i Wadi Tanezoft u Libiji, kao i u Gani i Sudanu.

Mrša, Zvonimir, zamjenik direktora Elektrobira, dipl. ing. el. (Split, 28. II. 1926). Diplomirao (1952) na Elektrotehničkom odsjeku Tehničkog fakulteta u Zagrebu. Od 1954. do 1990. u Elektroprojektu. Radi na hidroelektranama Split-Zakućac, Orlovac, Senj 2, Podsused, Kosinj, Drenje, Lešće, Lučica, kao i na PHE Hrmotine. Radi na EL-TO Zagreb, TE Sisak, na vodovodu i kanalizaciji Dubrovnika. U inozemstvu radi na hidroelektranama Tis Abbai, Mahabad, New Martinsville, termoelektranama Kandla i Negotino. Također radi na TS Bahr Dar, vodovodu Mahabad, na irigacijskim sustavima Sidi Yacub, Rezayeh, Maknussa, Gatrun i Wadi Tanezoft, kao i na NE Krško. Član HK CIGRE. Za svoj rad primio više priznanja i odlikovanja.

Nardini, Davorin, vodeći projektant, dipl. ing. građ. (Šibenik, 28. VIII. 1918 - Zagreb, 1989) Diplomirao na građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Delftu (Nizozemska) završio poslijediplomski studij iz hidraulike. U Elektroprojektu radi od 1952. do 1962. te od 1966. do odlaska u mirovinu 1982. Vodi projekte HE Brodarci i HE Valići s akumulacijom Zoretići. Sudjeluje na projektima HE Split, HE Rijeka, akumulacije Botonega te projektima u Iranu, Libiji, Alžiru i Siriji. Za svoj uspješan rad primio više službenih priznanja.

Orlović, Dragan, voditelj odjela, dipl. ing. el. (Mostar, 25. IX. 1953). Diplomirao (1977) na Elektrotehničkom fakultetu u Zagrebu. Od 1980. u Elektroprojektu. Radi na projektima novih hidroelektrana Čakovec, Lepenica, Golubić, Đurđevac, Kosinj i obnovi hidroelektrana Peruća, Zakućac, Jaruga, te na projektima crpnih vodoopskrbnih sustava Strmec, Kosnica i Ravne Njive. Od 1985. do 1987. radi na inozemnim projektima HE Tis Abbay, HE Doroodzam Dam i HE New Martinsville. Vodi odjel Hidroenergetska postrojenja. Član HK CIGRE.

Pavlin, Boris, vodeći projektant, dipl. ing. građ. (Zagreb, 25. XI. 1917). Diplomirao (1947) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od osnutka do 1986. Sudjelovao u svim važnijim projektima u zemlji i inozemstvu. Radi kao stručnjak u primjeni znanja inženjerske geologije i hidrogeologije u realizaciji izgradnje brana, akumulacija, zahvata podzemne

development of the Vuka river basin, of the catchments of HPP Đurđevac, HPP Barč, HPP Moslavina, HPP Osijek. Prepared multipurpose river basin development studies for the Rivers Krka, Zrmanja and Kupa. Abroad, he worked on the irrigation systems Gatrun, Maknussa and Wadi Tanezoft in Libya, as well as in Ghana and Sudan.

Mrša, Zvonimir, Split, 28/2/1926. Deputy Manager of Electrical Engineering Department. dipl. ing. (Elec. Eng.). Graduated in 1952 from the Department of Electrical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1954 to 1990. Engaged on HPPs Split - Zakućac, Orlovac, Senj 2, Podsused, Kosinj, Drenje, Lešće, Lučica, as well as on PSPP Hrmotine. Also involved in the Cogeneration Plant Zagreb, TPP Sisak, TPP Negotino, water supply and sewage system for Dubrovnik. Abroad, he worked on HPPs Tis Abbai, Mahabad, New Martinsville, TPP Kandla, SS Bahr Dar, Mahabad waterworks, Sidi Yacoub, Rezayeh, Maknussa, Gatrun and Wadi Tanezoft irrigation systems. Also involved in NPP Krško. Member of CIGRE Croatian Committee. Recipient of a number of commendations and decorations in recognition of his work.

Nardini, Davorin, Šibenik, 28/8/1918 - Zagreb, 1989. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated from the Department of Civil Engineering, Technical Faculty in Zagreb. Completed post-graduate studies in hydraulics in Delft, The Netherlands. Employed in Elektroprojekt from 1952 to 1962, and from 1966 until his retirement in 1982. Project leader for HPP Brodarci and HPP Valići, with the Zaretići reservoir. Participated in projects HPP Split, HPP Rijeka, Botonega reservoir, as well as in projects in Iran, Libya, Algeria and Syria. Recipient of several official commendations in recognition of his work.

Orlović, Dragan, Mostar, 25/9/1953. Section Head. dipl. ing. (Elec. Eng.). Graduated in 1977 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt since 1980 on projects involving new HPPs Čakovec, Lepenica, Golubić, Đurđevac, Kosinj. Involved in the reconstruction of HPPs Peruća, Zakućac, Jaruga, as well as on projects for pumping stations for the water supply systems Strmec, Kosnica and Ravne njive. From 1985 to 1987 worked on projects abroad - HPP Tis Abbay, HPP Doroodzam Dam and HPP New Martinsville. Head of Hydropower Projects Section. Member of CIGRE Croatian Committee.

Pavlin, Boris, Zagreb, 25/11/1917. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1947 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from its foundation until 1986. Participated in all major projects at home and abroad. Worked as an expert in the application of engineering geology and hydrology know-how in the construction of



vode, injekcijskih zavjesa, kaverna, tunela i drugog. Poznat u zemlji i inozemstvu po uspješnoj realizaciji akumulacija i brtvljenja pregradnih profila u kršu. Dobitnik više službenih priznanja.

Pavlin, Željko, vodeći projektant, dipl. ing. građ. (Zagreb, 8. V. 1959). Diplomirao (1983) na Fakultetu građevinskih znanosti u Zagrebu. Od 1983. u Elektroprojektu. Radi na projektima HE Podsused, HE Drenje, HE Ombla, na Vodoprivrednoj osnovi grada Zagreba, revitalizaciji HE Zakućac, TE Plomin 2, TE Al-Shemal, zaštiti krških izvora protiv zaslanjenja i na ostvarenju akumulacija u krškim područjima. Od 1992. honorarni asistent na katedri za hidrotehniku iz predmeta "Korištenje vodnih snaga" i "Hidrotehničke građevine" na Građevinskom fakultetu Sveučilišta u Zagrebu. Član Stručnog vijeća Elektroprojekta i većeg broja stručnih udruga.

Petanjek, Dragutin, voditelj Komercijalno-financijske službe, mr. sc., dipl. oec. (Zagreb, 28. XI. 1936). Diplomirao (1967) i magistrirao (1984) na Ekonomskom fakultetu u Zagrebu. Od 1962. do 1972. te od 1984. do danas u Elektroprojektu. Vodi komercijalne i financijske poslove u svim područjima djelatnosti i financijskog poslovanja tvrtke.

Petračić, Ante, voditelj kompleksnih projekata, dipl. ing. fizike (Dulaves kraj Daruvara, 10. VI. 1925). Diplomirao nuklearnu fiziku (1963) na Prirodoslovno-matematičkom fakultetu u Zagrebu. U Elektroprojektu od 1963. do odlaska u mirovinu 1988. Radi na investicijskom programu, kao i na evaluaciji ponuda i nostrifikaciji dokumentacije za NE Krško. Sudjeluje na izradi tendera za NE Prevlaka, za seriju nuklearnih elektrana, kao i za nuklearni gorivi ciklus. Također radi investicijsko-tehničku dokumentaciju i dijelove projekata pomoćnih sustava i sustava MRU na termoelektranama Plomin 1 i 2, Negotino, Skoplje, na TE-TO Tuzla, PTE Osijek i HE Varaždin.

Petrinović, Zdenko, pomoćnik direktora biroa, dipl. ing. el. (Bršadin kraj Vinkovaca, 13. X. 1944 - Zagreb, 15.V.1991). Diplomirao (1968) na Elektrotehničkom fakultetu u Zagrebu. Od 1971. do 1991. u Elektroprojektu. Radi na projektima TE Sisak 2, na studijama mreža i trafostanica, na projektu PHE Vinodol, na projektu hidroelektrana Podsused, Đurđevac, Barč, Žur, Strelečko, na studiji iskorištenja voda rijeke Mure i Drave od utoka rijeke Mure do ušća u Dunav, te na projektima i nadzoru tijekom izgradnje

dams, reservoirs, groundwater tapping, grout curtains, caverns, tunnels and other structures. Recognised both at home and abroad for his successful realisations of reservoirs and watertightening of dams in karst. Recipient of several official commendations in recognition of his work.

Pavlin, Željko, Zagreb, 8/5/1959. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1983 from the Faculty of Civil Engineering Sciences in Zagreb. Employed in Elektroprojekt since 1983. Involved in design documentation development for HPP Podsused, HPP Drenje, HPP Ombla, on the multipurpose river basin development study for the City of Zagreb, on refurbishment of HPP Zakućac, on TPP Plomin 2, on the protection of karstic springs and prevention of spring salination, on the realisation of reservoirs in karstic areas. Abroad, he worked on TPP Al-Shemal. From 1992, part-time assistant lecturer at the Department of Hydraulic Engineering, (Exploitation of Water Power, and Hydraulic Structures) at the Faculty of Civil Engineering in Zagreb. Member of the Elektroprojekt Design Review Council and of a number of professional associations.

Petanjek, Dragutin, Zagreb, 28/11/1936. Head of Commercial/Financial Services. M.Sc., dipl. oec. Graduated in 1967 and acquired his Master's Degree in (1984) at the Faculty of Economy in Zagreb. Employed in Elektroprojekt from 1962 to 1972, and from 1984 to date. Manages commercial and financial operations in all areas of company activities, including financial matters.

Petračić, Ante, Dulaves, near Daruvar, 10/6/1925. Project Manager. dipl. ing. (Physics). Graduated in nuclear physics in 1963 from the Faculty of Natural Sciences in Zagreb. Employed in Elektroprojekt from 1963 until his retirement in 1988. Involved in the investment programme, as well as in the evaluation of bids and the validation of documentation for NPP Krško. Participated in the development of tender for NPP Prevlaka, for a series of nuclear power plants, as well as for the nuclear fuel cycle. Produced investment and technical documentation and segments of designs for auxiliary systems and I & C systems for TPPs Plomin 1 and 2, Negotino, Skopje, Cogeneration Plant Tuzla, GTPP Osijek and HPP Varaždin.

Petrinović, Zdenko, Bršadin, near Vinkovci, 13/10/1944 - Zagreb, 15/5/1991. Deputy Manager of Electrical Engineering Department. dipl. ing. (Elec. Eng.). Graduated in 1968 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt from 1971 to 1991 on projects: TPP Sisak 2, on studies of power networks and substations, PSPP Vinodol, HPPs Podsused, Đurđevac, Barč, Žur, Strelečko. Also involved in the study of exploitation of waters of the Rivers Mura and Drava, from site of confluence of the



hidroelektrana Čakovec i Dubrava. Od 1986. do 1987. radi na inozemnom projektu HE New Martinsville. Član HK CIGRE. Za svoj rad primio više službenih prizanja.

Pletikapić, Zlatko, voditelj odjela, dipl. ing. građ. (Zagreb, 27. V. 1957). Diplomirao (1981) na Građevinskom fakultetu u Zagrebu. Od 1981. u Elektroprojektu. Radi na projektiranju hidroenergetskih postrojenja na rijeci Dravi, na modelskim ispitivanjima strujanja podzemnih voda i pronosa zagađenja podzemnim vodama u svezi sa zaštitom kvalitete podzemnih voda, na sanaciji područja neuređenog odlagališta - smetlišta Jakuševac, zaštiti kakvoće podzemnih voda koje se koriste za vodoopskrbu. Voditelj projekta razvoja sustava gospodarenja otpadom grada Zagreba. Od 1993. voditelj Odjela za podzemne vode koji postupno do 1997. prerasta u odjel Ekološkog inženjerstva, vodoopskrbe i odvodnje.

Podobnik, Željko, voditelj odjela, dipl.ing.građ. (Zagreb, 14.V.1950). Diplomirao (1977) na Građevinskom fakultetu u Zagrebu. Od 1984. u Elektroprojektu. Radi na projektima HE Valiči, HE Lepenica, HE Lešće, HE Lučica, HE Đale, HE Podsused, TE-TO Zagreb (kotlovnica PKA), EL-TO Zagreb i TS Sušak. Vodi odjel Energetski objekti i postrojenja.

Potočnik, Vladimir, tehnički savjetnik, mr. sc., dipl. ing. stroj. (Travnik, 14. VII. 1936). Diplomirao (1960) i magistrirao (1975) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1960. u Elektroprojektu. Radi na mnogim projektima i studijama u Hrvatskoj: TE-TO Zagreb, KTE Jertovec, EL-TO Zagreb, toplifikacija Osijeka i Splita 3, NE Prevlaka, TE-TO na otpad Zagreb, studije otpada za Zagreb i riječko-istarsko područje. U inozemstvu radi na TE Kandla, DE Lesbos, energani PIK Peč, TE Al Shemal, NE Krško i HE New Martinsville. Inicira revitalizaciju termoelektrana, kogeneraciju, upotrebu obnovljivih energenata i zalaže se za racionalno korištenje energije u Hrvatskoj. Objavljuje radove u stručnim glasilima i zbornicima stručnih skupova. Član više stručnih udruga u Hrvatskoj i ISWA Kopenhagen (za otpad).

Reštarović, Stjepan, voditelj grupe osnovnih projekata i projektant voditelj, dipl. ing. građ. (Nijemci kraj Vinkovca, 16.XII.1913). Diplomirao (1937) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od osnutka do 1961. Vodi projekt HE Zakućac, a sudjeluje također na projektima HE Vinodol, HE Gojak i

River Mura with the River Danube, and in projects and supervision during course of construction of HPPs Čakovec and Dubrava. From 1986 to 1987, worked abroad on the HPP New Martinsville project. Member of CIGRE Croatian Committee. Recipient of several official commendations in recognition of his work.

Pletikapić, Zlatko, Zagreb, 27/5/1957. Section Head. dipl. ing. (Civ. Eng.). Graduated in 1981 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1981 on designs for hydropower plants on the River Drava, on model testing of ground-water flow and groundwater contamination transportation with regard to the preservation of groundwater quality, on remedial measures for the area of the Jakuševac dump site, on the protection of quality of groundwater used for water supply. Leader of project for the City of Zagreb waste management system development. From 1993, Head of Groundwater Section which, by 1997, had gradually expanded to become the Section of Environmental Engineering, Water Supply and Drainage.

Podobnik, Željko, Zagreb, 14/5/1950. Section Head. dipl. ing. (Civ. Eng.). Graduated in 1977 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1984. Engaged in the following projects: HPP Valiči, HPP Lepenica, HPP Lešće, HPP Lučica, HPP Đale, HPP Podsused, Cogeneration Plant Zagreb (boiler room PK4), Cogeneration plant Zagreb West and SS Sušak. Head of Power Plants and Projects Section.

Potočnik, Vladimir, Travnik, 14/7/1936. Technical Advisor. M.Sc. dipl. ing. (Mech. Eng.). Graduated in 1960, and acquired his Master's Degree in 1975 at the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1960. Involved in numerous projects and studies in Croatia: Cogeneration Plants in Zagreb, GTPP Jertovec, district heating in Osijek and Split 3, NPP Prevlaka, waste-powered Cogeneration Plant Zagreb, studies of waste management for Zagreb and for the Rijeka and Istria areas. Abroad, he worked on TPP Kandla, DPP Lesbos; the power plant for PIK Peč, TPP Al Shemal, NPP Krško and HPP New Martinsville. Initiates revitalisation projects for TPPs, co-generation, exploitation of renewable energy resources, and supports energy conservation in Croatia. Author of a number of papers published in professional journals and Proceedings of professional congresses. Member of a number of professional associations in Croatia, and of ISWA Copenhagen.

Reštarović, Stjepan, Nijemci, near Vinkovci, 16/12/1913. Group Leader for basic designs and Chief Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1937 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from its foundation until 1961. Project manager for HPP Zakućac; partici-



HE Senj.

Rupčić Josip, prof. dr. sc., dipl. ing. građ., predsjednik Stručnog vijeća Elektroprojekta, (Ogulin, 26.XI.1938). Diplomirao (1964), magistrirao (1983) i doktorirao (1991) na Građevinskom fakultetu Sveučilišta u Zagrebu. Od 1965. u Elektroprojektu. Radi na projektima brana Baštica i Letaj, reklamacije zemljišta EL Zawia u Egiptu,

HE na odušnom kanalu Odra. Vodi izradu studija za HES Senj. Vodi projekte: Retencije na podsljemenskom području, RHE Hrmotine, Optimalno korištenje voda Like i Gacke, Vodno energetska stepenica Lučica, Kompleksno uređenje slijeva Kupe, Akumulacijsko jezero Kosinj s HE Kosinj i HE Otočac, Sanacija brane Peruća, Kompenzacijski bazen Gusić polje te HE Senj 2. Predsjednik Stručnog savjeta HG biroa (1994-98) te predsjednik Stručnog vijeća Elektroprojekta od 1998. Drži katedru Hidrotehničke građevine na Građevinskom fakultetu u Zagrebu od 1985. Predsjednik Hrvatskog društva za velike brane od osnivanja 1992. te član Komiteta ICOLD-a za temeljenje brana. Objavio niz znanstvenih i stručnih članaka u domaćim i svjetskim časopisima te na domaćim i međunarodnim kongresima. Za svoj znanstveni i stručni rad dobio niz nagrada i priznanja.

Rusan, Milovan, vodeći projektant, dipl. ing. građ. (Bijakovac, 23. III. 1940). Diplomirao (1964) na Građevinskom fakultetu u Zagrebu. U Elektroprojektu od 1969. Surađuje na modelskim ispitivanjima hidrotehničkih zahvata HE Varaždin i HE Orlovac. Radi na projektima hidroelektrana Orlovac, Zakućac 2, Đale, Đurđevac i Barč, RHE Obrovac. Vodi dijelove projekata HE Đurđevac, HE Podsused, HE Novo Virje, vodocrpilišta Strmec i Kosnica.

Salzer, Petar, vodeći projektant, dipl. ing. stroj. (Zagreb, 19. IV. 1943). Diplomirao (1969) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1971. u Elektroprojektu. Radi na projektiranju i rekonstrukcijama tehnoloških sustava termoelektričnih postrojenja kao i sustava daljinskog grijanja grada Zagreba. Od 1982. do 1984. radi u NE Krško na nostrifikaciji projektne dokumentacije i izradi projekta izvedenog stanja. Tijekom 1986. radi u SAD-u na projektu HE New Martinsville. Od 1987. do 1991. radi na projektu TE Plomin 2 kao voditelj Grupe za cjevovode i kao glavni strojarski inženjer. Od 1991. do 1993. pomoćnik direktora Strojarsko-tehnološkog biroa. Od 1993. do 1998. vodi Službu osiguravanja kvalitete.

pated in HPP Vinodol, HPP Gojak and HPP Senj projects.

Rupčić, Josip, Ogulin, 26/11/1938. Professor, D.Sc., dipl. ing. (Civ. Eng.), President of the Elektroprojekt Design Review Council. Graduated in 1964; acquired his Master's Degree in 1983 and his Doctorate in 1991 at the Faculty of Civil Engineering, University of Zagreb. Employed in Elektroprojekt since 1965. Involved in the Baštica and Letaj Dams projects, land reclamation project El Zawia in Egypt, HPP on the Odra flood diversion canal. Heads the development of a study for HPS Senj. Project Leader for the following: Retention foothills of Sljeme, PSPP Hrmotine, Optimum utilisation of waters of the Rivers Lika and Gacka, HPS Lučica, comprehensive development of the River Kupa basin, the Kosinj Reservoir, with HPP Kosinj and HPP Otočac, reconstruction of the Peruća Dam, the Gusić polje compensation reservoir, and HPP Senj. President of the HCE Department Design Review Council (1994-1998), and President of the Elektroprojekt Design Review Council from 1998. Since 1985 he has headed the Department for Hydraulic Structures at the Faculty of Civil Engineering in Zagreb. President of the Croatian Committee on Large Dams from its foundation in 1992, and member of the ICOLD Committee for Dam Foundation. Published and presented numerous scientific and professional papers in local and foreign journals, and at local and foreign congresses. Recipient of many awards and commendations in recognition of his scientific and professional work.

Rusan, Milovan, Bijakovac, 23/3/1940. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1964 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1969. Co-operated in model testing of hydraulic projects for HPP Varaždin and HPP Orlovac. Worked on the following projects: HPPs Orlovac, Zakućac 2, Đale, Đurđevac and Barč, PSPP Velebit. Project Leader for segments of HPP Đurđevac, HPP Podsused; HPP Novo Virje, well fields Strmec and Kosnica.

Salzer, Petar, Zagreb, 19/4/1943. Lead Design Engineer. dipl. ing. (Mech. Eng.). Graduated in 1969 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1971. Involved in projects for the design and reconstruction of process systems of TPPs, and of the district heating system for the City of Zagreb. From 1982 to 1984 he worked in NPP Krško on validation of design documentation and as-built design development. In 1986 he worked in the USA on the documentation for the HPP New Martinsville. From 1987 to 1991 was involved in the project TPP Plomin 2 as Leader of the Group for piping and as chief mechanical engineer. From 1991 to 1993 he was Deputy Manager of the Mechanical Engineering Department. From 1993 to 1998 he headed the Quality Assurance Service.



Sasunić, Antonio, vodeći projektant, dipl. ing. građ. (Oruro, Bolivija, 11. IV. 1928 - Zagreb, 4.I.1997). Diplomirao (1956) na Građevinskom fakultetu u Zagrebu. Od 1956. do 1996. u Elektroprojektu. Vodi projekte HE Podsused, HE Drenje, HE Prečko, HE Ombla, vodoprivredno rješenje Save na području Zagreba te TE Al Shemal u Iraku. Suradivao na projektima TE Plomin, RHE Velebit, HE Strelečko, HE Orlovac, riječne luke Sisak, te irigacijskih sustava Washawng u Burmi, Mahabad i Aliabad-Farlabad u Iranu, Awasa u Etiopiji i drugima.

Sečen, Vladimir, voditelj odjela, dipl. ing. kult. tehn. (Severin na Kupi, 9. IX. 1945). Diplomirao (1969) na Geodetskom fakultetu u Zagrebu. Od 1974. u Elektroprojektu. Radi na projektu irigacije Mahabad u Iranu, na projektima hidroelektrana Golubić, Lepenica, RHE Obrovac, akumulacije Ričica te brane Zaralda u Alžiru. Radi na projektima VS Đurđevac, ustave Vivoze, na akumulaciji i HE Kosinjski, HE Otočac kao i na programima istraživanja zaobalja i prethodnoj studiji utjecaja na okolinu za HE Novo Virje. Vodi odjel Uređenje zemljišta.

Sever, Mirko, vodeći projektant, dipl. ing. građ. (Odra kraj Velike Gorice, 3. X. 1913 - Zagreb, 29. VIII. 1996). Diplomirao (1942) na Građevinskom fakultetu u Grazu. Od 1951. do 1980. i od 1981. do 1982. u Elektroprojektu. Rukovodi projektima HE Senj, HE Rijeka, na projektima vodoopskrbe Ponikva na Krku i za grad Zadar. Također vodi projekte irigacijskih sustava Washawng u Burmi, El Zawia u Egiptu te Wadi Tanezof, Maknussa, Gatrun i El Tobruk u Libiji, Sarakhs u Iranu i dr.

Sever, Zvonimir, voditelj odjela, dipl. ing. građ. (Bjelovar, 3. VI. 1947). Diplomirao (1973) na Građevinskom fakultetu u Zagrebu. Od 1973. u Elektroprojektu. Suraduje na projektima HE Orlovac, PHE Vinodol, HE Zakućac III, HE Čakovec, na irigacijskim sustavima Salmas i Urumieh u Iranu, HE Golubić. Radi na projektima RHE Obrovac, HE Đale, RHE Lepenica, Brana Ričica, HE Baglihar, HE Krčić i HE Krčić II, Brana Botonega, NE Prevlaka, HE Valići i brana Zoretići. Vodi projekte: Sanacija brane Peruća, Sanacija tunela HE Zakućac i HE Rama, Odlagališta otpada Trebež i Zaprešić, Akumulacija Ričice, HE Ombla, Centar nadzora i posluživanja hidroenergetskog sustava rijeke Cetine te nadzire izgradnju ostvarenih projekata. Od 1983. godine odgovoran za tehnička promatranja većine brana i hidroelektrana u Hrvatskoj. Vodi odjel Podzemne građevine i monitoring. Objavio niz stručnih članaka u domaćim i svjetskim časopisima ili na kongresima. Tajnik Hrvatskoga društva za tunele od 1991. i predsjednik Odbora za tehničko promatranje velikih brana Hrvatskoga društva za velike brane.

Sasunić, Antonio, Oruro, Bolivia, 11/4/1928 - Zagreb, 4/1/1997. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1956 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1956 to 1996. Project Leader for HPP Podsused, HPP Drenje, HPP Prečko, HPP Ombla, multipurpose river basin development study of the River Sava in the Zagreb area, and TPP Al Shemal in Iraq. At home, he co-operated in the TPP Plomin, PSPP Velebit, HPP Strelečko, HPP Orlovac, port of the City of Sisak projects, and abroad in the project of the Washawng irrigation systems in Burma, Mahabad, and Aliabad-Farlabad in Iran, Awassa in Ethiopia, and others.

Sečen, Vladimir, Severin na Kupi, 9/9/1945. Section Head. dipl. ing. (Rural Eng.). Graduated in 1969 from the Faculty of Geodesy in Zagreb. Employed in Elektroprojekt since 1974. Worked on the projects of the Mahabad irrigation system in Iran, HPPs Golubić and Lepenica, PSPP Velebit, the Ričica Reservoir, the Zaralda Dam in Algeria. Also involved in the projects HPS Đurđevac, Vivoza diversion dam, Reservoir and HPP Kosinjski, HPP Otočac, river basin investigations and the preliminary environmental impact study for HPP Novo Virje. Heads the Excavation and Land Reclamation Section.

Sever, Mirko, Odra, near Velika Gorica, 3/10/1913 - Zagreb, 29/8/1996. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1942 from the Faculty of Civil Engineering in Graz, Austria. Employed in Elektroprojekt from 1951 to 1980, and from 1981 to 1982. Headed the projects of HPP Senj, HPP Rijeka, water supply systems on the island of Krk-Ponikva, and for the city of Zadar. Also headed Washawng irrigation projects in Burma; El Zawia in Egypt; Wadi Tanezof, Maknussa; Gatrun and El Tobruk in Libya, Sarakhs in Iran, and elsewhere.

Sever, Zvonimir, Bjelovar, 3/6/1947. Section Head. dipl. ing. (Civ. Eng.). Graduated in 1973 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1973. Co-operated in the following projects: HPP Orlovac, PSPP Vinodol, HPP Zakućac III, HPP Čakovec, HPP Golubić, the Salmas and Urumieh irrigation systems in Iran. Also involved in the following projects: PSPP Velebit, HPP Đale, RHPP Lepenica, the Ričica Dam, HPP Baglihar, HPP Krčić and HPP Krčić II, the Botonega Dam, NPP Prevlaka, HPP Valići and the Zoretići Dam. Project leader and construction supervisor for the following: reconstruction of the Peruća Dam, reconstruction of tunnels for HPP Zakućac and HPP Rama; waste landfills in Trebež and Zaprešić, the Ričice Reservoir, HPP Ombla, Centre for monitoring and servicing of the River Cetina hydropower system. From 1983, responsible for monitoring of majority of dams and HPPs in Croatia. Heads the Underground Structures and Monitoring Section. Has published a number of professional papers in local and foreign journals, and at congresses. From 1991, Secretary of the Croatian Tunnelling



Simić, Rajko, vodeći projektant, dipl. ing. građ. (Varaždin, 19. III. 1925). Diplomirao (1948) na Građevinskom fakultetu u Zagrebu. Od 1976. do 1989. u Elektroprojektu. Vodi projekt i projektantski nadzor tunela HE Zakućac 2, vodi i koordinira izradu Vodoprivredne osnove grada Zagreba, radi na projektima hidroelektrana i vodoprivrednih objekata na Savi.

Sladoljev, Vladimir, vodeći projektant, dipl. ing. arh. (Zagreb, 5. II. 1937). Diplomirao (1962) na Arhitektonsko-građevinsko-geodetskom fakultetu u Zagrebu. Od 1963. do 1967. i od 1979. do danas u Elektroprojektu. Radi na projektima TE-TO Osijek, TE Plomin, na pripremnim radovima za trafostanice u Dalmaciji i TE-TO Tuzla 6, kao voditelj građevinskog projektiranja.

Stipetić, Boris, voditelj odjela, dipl. ing. el. (Zagreb, 1. VI. 1963). Diplomirao (1988) na Elektrotehničkom fakultetu u Zagrebu. Od 1995. u Elektroprojektu. Radi na projektima telekomunikacijskih sustava u HEP-u (Plan transmisije, Plan komutacije, CNP Cetine) te vodi projekte SDH mreže. Vodi odjel Telekomunikacije.

Stipetić, Marijan, dipl. ing. geod. (Delnice, 16. VII. 1933.). Diplomirao (1959) na Geodetskom fakultetu u Zagrebu. Od 1961. u Elektroprojektu. Do 1984. radi na geodetskim poslovima i podlogama za potrebe projektiranja mnogih hidroelektrana, brana, hidrotehničkih tunela, cjevovoda i objekata infrastrukture u zemlji i inozemstvu - u Burmi, Iranu, Libiji, Alžiru i Egiptu. Vodi geodetsko-tehnička promatranja izgrađenih objekata. Od 1984. do 1995. rukovodi Geodetskim odjelom u birou. Primio priznanja za rad.

Šander, Miroslav, voditelj odjela, mr. sc., dipl. ing. stroj. (Zagreb, 8. X. 1951). Diplomirao (1977) i magistrirao (1989) na Fakultetu strojarstva i brodogradnje. Specijalizirao se u području parnih, plinskih i vodnih turbina. Od 1992. u Elektroprojektu. Radi na projektu TE Plomin 2 - na parnoturbinskom postrojenju. Vodi projekt izgradnje PTE Dujmovača u Splitu. Objavio dvadesetak stručnih i znanstvenih radova iz područja ekologije, parnih, plinskih i vodnih turbina, proračuna turbulentnoga graničnog sloja i primjene metode konačnih elemenata u energetske proračunima i postrojenjima. Vodi odjel Tehnologije i zaštite.

Association, and President of the Committee for Monitoring of Large Dams within the Croatian Committee on Large Dams.

Simić, Rajko, Varaždin, 19/3/1925. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1948 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1976 to 1989. Project leader and supervisor for the HPP Zakućac 2 tunnel, leader and coordinator for preparation of multipurpose river basin development study for the City of Zagreb; worked on projects of HPPs and water structures on the River Sava.

Sladoljev, Vladimir, Zagreb, 5/2/1937. Lead Design Engineer. dipl. ing. (Arch.). Graduated in 1962 from the Faculty for Architecture, Civil Engineering and Geodesy in Zagreb. Employed in Elektroprojekt from 1963 to 1967, and from 1979 to date. Involved in the Cogeneration Plant Osijek, TPP Plomin projects, in the preparatory works for substations in Dalmatia and in Cogeneration Plant Tuzla 6 as head of civil design development.

Stipetić, Boris, Zagreb, 1/6/1963. Section Head. dipl. ing. (Elec. Eng.). Graduated in 1988 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt since 1995. Engaged in telecommunication systems projects in Croatian Power Board (Transmission plan, commutation plan, Centre for Monitoring and Servicing Cetina), as well as Project Leader for network SDH. Head of the Telecommunications Section.

Stipetić, Marijan, Delnice, 16/7/1933. Section Head, dipl. ing. (Geodesy). Graduated in 1959 from the Faculty of Geodesy in Zagreb. Employed in Elektroprojekt since 1961. Until 1984, involved in surveying and collecting input data for preparation of design documentation for numerous HPPs, dams, power tunnels, pipelines and infrastructural facilities at home and abroad - in Burma, Iran, Libya, Algeria and Egypt. Headed the surveying and monitoring of constructed facilities. From 1984 to 1995, Head of the Land Surveying Section. Recipient of commendations in recognition of his work.

Šander, Miroslav, Zagreb, 8/10/1951. Section Head, M.Sc. (Mech. Eng.). Graduated in 1977, and acquired his Master's Degree in 1989 at the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Specialised in the field of steam, gas and water turbines. Employed in Elektroprojekt since 1992. Involved in the TPP Plomin 2 project (steam-turbine plant). Project Leader for the construction of GTPP Dujmovača in Split. Author of around twenty professional and scientific papers in the field of environmental protection, steam, gas, and water turbines, of calculations for the turbulent boundary layer and on the application of the finite elements method in energy calculations and plants. Head of Processes and Protection Section.



Šimac, Smiljan, voditelj Službe općih i pravnih poslova, dipl. iur. (Osijek, 22. VIII. 1942). Diplomirao (1964) na Pravnom fakultetu u Zagrebu. Pohađao poslijediplomski studij u Belgiji, te sudjelovao u radu Međunarodnog fakulteta usporednog prava u Italiji i Francuskoj. Od 1975. do 1990. u Elektroprojektu na poslovima pravnog konzultanta i vođenja službe. Iz Elektroprojekta odlazi u Ministarstvo vanjskih poslova, a potom postaje hrvatski veleposlanik u Parizu.

Šimetin, Josip, voditelj kompleksnih projekata, dipl. ing. stroj. (Kaštel Novi, 27. VII. 1928). Diplomirao (1955) na Stojarskom odsjeku Tehničkog fakulteta u Zagrebu. U Elektroprojektu od 1963. do odlaska u mirovinu 1991. Vodi cijeli niz ponudbenih i idejnih projekata, kao i investicijskih i idejnih rješenja. Radi kao voditelj projekata Rekonstrukcije energane u Željezari Sisak, na TE Plomin 1 i 2, TE Skoplje i na projektu Strojarnice i pomoćnih sustava u TE Rijeka.

Šolman, Nikola, vodeći projektant, dipl. ing. stroj. (Zagreb, 18. X. 1949). Diplomirao (1976) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1985. u Elektroprojektu. Radi proračune cjevovoda i čeličnih konstrukcija na projektima raznih energetske objekata. 1990. godine radi u tvrtki Westinghouse Bruxelles na proračunima cjevovoda za NE Beznau. Član Hrvatskoga nuklearnog društva i predstavnik u Strukovnom razredu inženjera strojarstva pri Hrvatskoj komori arhitekata i inženjera.

Šoljan, Milivoj, vodeći nadzorni inženjer, dipl. ing. građ. (Zadar, 3. VI. 1910). Diplomirao na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. Od 1957. do 1973. u Elektroprojektu. Vodi izgradnju HE Vinodol i irigacijskog sustava El Zawia u Egiptu. Radi na projektima u Etiopiji, Libiji i drugdje.

Štefanac, Ivan, voditelj Službe općih i pravnih poslova (Maglaj, 11. XI. 1915). U Elektroprojektu radi od 1953. do 1975. Za svoj rad primio više službenih priznanja.

Švel, Boris, vodeći projektant, dipl. ing. građ. (Vrbanja kraj Vinkovaca, 7. VI. 1924). Diplomirao (1952) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. Od 1971. do 1990. u Elektroprojektu. Radi na projektima vodoopskrbe, odvodnje, kanalizacije, irigacija, rezervi i problematike podzemnih voda, i to za objekte Urumieh i Salmas u Iranu, zaobalja HE Čakovec, HE Đurđevac, HE Barč, te u Libiji Gatrun, Maknussa i Wadi Tanezoft.

Šimac, Smiljan, Osijek, 22/8/1942. Head of Corporate and Legal Services. dipl. iur. Graduated in 1964 from the Faculty of Law in Zagreb, Attended post-graduate studies in Belgium and participated in the work of the International Faculty of Comparative Law in Italy and France. Employed in Elektroprojekt from 1975 to 1990 as a legal consultant and Head of the Service. From Elektroprojekt he moved to the Ministry of Foreign Affairs, eventually becoming the Croatian Ambassador to France.

Šimetin, Josip, Kaštel Novi, 27/7/1928. Project Manager. dipl. ing. (Mech. Eng.). Graduated in 1955 from the Department of Mechanical Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1963 until his retirement in 1991. Headed a number of tender and conceptual designs, as well as investment and conceptual studies. Project Leader for the reconstruction of the Sisak Steel Works powerhouse, for TPP Plomin 1 and 2, TPP Skoplje; worked on the Powerhouse and Auxiliary System project in TPP Rijeka.

Šolman, Nikola, Zagreb, 18/10/1949. Lead Design Engineer. dipl. ing. (Mech. Eng.). Graduated in 1976 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1985. Prepares pipeline and steel structure calculations for diverse power generation projects. In 1990, worked in Westinghouse Brussels on pipeline calculations for NPP Beznau. Member of the Croatian Nuclear Society and representative in the Professional Class of Engineers of Mechanical Engineering at the Croatian Chamber of Architects and Engineers.

Šoljan, Milivoj, Zadar, 3/6/1910. Chief Supervisor. dipl. ing. (Civ. Eng.). Graduated from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1957 to 1973. Headed the construction of HPP Vinodol and the El Zawia irrigation system in Egypt. Also worked on projects in Ethiopia, Libya, and elsewhere.

Štefanac, Ivan, Maglaj, 11/11/1915. Head of Corporate and Legal Services. Employed in Elektroprojekt from 1953 to 1975. Recipient of several official commendations in recognition of his work.

Švel, Boris, Vrbanja, near Vinkovci, 7/6/1924. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1952 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1971 to 1990. Involved in projects involving water supply, drainage, sewerage, irrigation, water reserves and groundwater issues - Urumieh and Salmas in Iran; Gatrun, Maknussa and Wadi Tanezoft in Libya; river basins of HPP Čakovec, HPP Đurđevac, and HPP Barč.

Udina, Josip, vodeći projektant, dipl. ing. el. (Krk, 14. II. 1941). Diplomirao (1966) na Elektrotehničkom fakultetu u Zagrebu. Od 1973. u Elektroprojektu. Radi na projektima transformatorskih stanica RP Brinje, TS Međurić, TS Mraclin, TS Negotino, TS Priština, TS Zadar-centar, TS Đakovo, RP Plomin 2. Radi na projektima uzemljenja za TE-TO Zagreb, EL-TO Zagreb, Tvornice dušičnih gnojiva Kutina i NE Krško, na projektima termoelektrana TE Plomin 2, PTE Dujmovača, TE-TO Osijek, TE-TO Zagreb, PTE Zagreb Zapad i KKE TE-TO Zagreb kao i na tenderskoj dokumentaciji za TE-TO Zagreb i KE Osijek, te na idejnim projektima KE Osijek, DE Ploče i DE Dujmovača. Član komiteta 33 HK CIGRE.

Vlah, Branimir, samostalni projektant specijalist, dipl. ing. stroj. (Zagreb, 20. XI.1951). Diplomirao (1976) na Fakultetu strojarstva i brodogradnje u Zagrebu. U Elektroprojekt dolazi 1995. kao projektant kotlovskih postrojenja. Radi na projektima PTE Zagreb Zapad i PTE Jertovec.

Zglavnik, Mijo, pomoćnik direktora Strojarsko-tehnološkog biroa, dipl. ing. stroj. (Budrovac kraj Đurđevca, 26.IX.1949). Diplomirao (1975) na Fakultetu strojarstva i brodogradnje u Zagrebu. Od 1986. u Elektroprojektu. Radi na projektima TE Plomin 2, PTE Dujmovača, PTE Zagreb Zapad te vodi projekt KKE TE-TO Zagreb. Sudjeluje u izradi idejnih rješenja i idejnih projekata za KE Osijek, studija za izbor lokacija za termoelektrane u Hrvatskoj te studija izvodljivosti za male termoelektrične objekte i za iskorišćivanje geotermalne energije. Od 1993. voditelj odjela Turbogeneratorska postrojenja, a od 1998. pomoćnik direktora biroa. Član Hrvatskoga nuklearnog društva.

Zlatović, Branko, vodeći projektant, dipl. ing. građ. (Sušak, 15. V. 1924 - 14. X. 1997). Diplomirao (1952) na Građevinskom odsjeku Tehničkog fakulteta u Zagrebu. Od 1953. do 1987. u Elektroprojektu. Vodio projekte HE Orlovac i HE Mahabad. Rukovodio projektom ispostavom u Etiopiji za poslove Vodoprivredne osnove Wabi Shebeli, te projekte vodoopskrba Haras, Nazart i Addis Abeba. Radio na projektima HE Split, HE Senj, HE Đale te na projektima u Burmi i drugdje.

Zupanc, Rene, voditelj ispostave, dipl. ing. stroj. (Zagreb, 12. XII. 1943). Diplomirao (1968) na Fakultetu strojarstva i brodogradnje u

Udina, Josip, Krk, 14/2/1941. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1966 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt since 1973 on the following projects: substations SY Brinje, SS Međurić, SS Mraclin, SS Negotino, SS Priština, SS Zadar - centre, SS Đakovo, SY Plomin 2. Worked on grounding designs for Cogeneration Plants in Zagreb, the Kutina artificial fertilizer production plant and NPP Krško. Also involved in the following projects: TPPs - TPP Plomin 2, GTPP Dujmovača, Cogeneration Plant Osijek, Cogeneration Plant Zagreb, GTPP Zagreb Zapad and Combined-Cycle Power Plant (CCPP) Zagreb, as well as co-operating in the production of the bid documentation for Cogeneration Plant Zagreb and CCPP Osijek, the conceptual designs for CCPP Osijek, DPP Ploče and DPP Dujmovača. Member of the CIGRE Croatian Committee.

Vlah, Branimir, Zagreb, 20/11/1951. Senior Design Engineer/Specialist. dipl. ing. (Mech. Eng.). Graduated in 1976 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Joined Elektroprojekt in 1995 as a design engineer for boiler plants. Worked on the GTPP Zagreb Zapad and GTPP Jertovec projects.

Zglavnik, Mijo, Budrovac, near Đurđevac, 26/9/1949. Deputy Manager of the Mechanical and Process Engineering Department. dipl. ing. (Mech. Eng.). Graduated in 1975 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1986. Involved in the TPP Plomin 2, GTPP Dujmovača, GTPP Zagreb Zapad projects, and was Project Leader for Combined-Cycle Cogeneration Plant Zagreb. Participated in the production of preliminary designs and conceptual project designs for CCPP Osijek, in the study of thermal power plants location selection in Croatia, in the feasibility study for small energy plants, and in the study of geo-thermal energy exploitation. From 1993, Head of Turbine Generator Plants Section, from 1998 Deputy Department Manager. Member of the Croatian Nuclear Society.

Zlatović, Branko, Sušak, 15/5/1924 - 14/10/1997. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1952 from the Department of Civil Engineering, Technical Faculty in Zagreb. Employed in Elektroprojekt from 1953 to 1987. Project Leader for HPP Orlovac and HPP Mahabad. Managed the Branch Office in Ethiopia for the preparation of Multipurpose River Basin Development Study related to Wabi Shebeli, as well as the designs for water supply systems Haras, Nazart and Addis Abeba. Involved in the HPP Split, HPP Senj, and HPP Đale projects, as well as in projects in Burma and elsewhere.

Zupanc, Rene, Zagreb, 12/12/1943. Head of Branch Office. dipl. ing. (Mech. Eng.). Graduated in 1968 from the Faculty of



Zagrebu. Specijalizirao se za projektiranje tlačnih posuda i opreme za prijenos topline. U Elektroprojektu od 1991. vodi ispostavu u NE Krško. Od 1998. pomoćnik direktora u Elektroprojektovoj tvrtki NUKEL d.o.o. u Krško. Član više domaćih i stranih stručnih udruga.

Žarković, Vladimir, voditelj odjela, mr.sc.,dipl. ing. građ. (Zagreb, 20. XII. 1956). Diplomirao (1980) i magistrirao (1999) na Građevinskom fakultetu u Zagrebu. Od 1981. u Elektroprojektu. Radio na projektima HE Čakovec, HE Dubrava, HE Krčić, HE Osijek, HE Moslavina, HE Drenje, HE Podsused, HE Valiči, HE Đurđevac, HE Novo Virje, HE Senj 2, TE Osijek, TE Al-Shemal, NE Prevlaka, NE Krško te Odlagališta radioaktivnog otpada. Od 1991. do 1994. bio zamjenik voditelja ispostave u Iranu i vodio projekte sigurnosnih analiza i obnove brana Mahabad, Gheshlagh, Aras i Lar.

Žderić, Dragomir, vodeći projektant, dipl. ing. građ. (Rogotin kraj Makarske, 15. VIII. 1928). Diplomirao (1959) na Građevinskom fakultetu u Zagrebu. Od 1959. do 1993. u Elektroprojektu. Radi pretežito na irigacijskim sustavima i vodoprivredno-energetskim projektima u zemlji i inozemstvu: Nanlet, Mahabad, Urumieh, Salmas i Agro-industrial Combine - Dezfui (Khuzestan). U Hrvatskoj radi na projektima VES Brodarci i Đurđevac, HE Otočac, ustavi Palanjek, te na akumulaciji i brani Ričica. Nakon 1993. radi kao revident Stručnog vijeća Elektroprojekta.

Žgalin, Željko, vodeći projektant, dipl. ing. el. (Travnik, 11. III. 1954). Diplomirao (1977) na Elektrotehničkom fakultetu u Zagrebu. Od 1979. u Elektroprojektu. Radi na projektima hidroelektrana Dubrava, Čakovec, Osijek, Novo Virje, Podsused, Prečko, Senj 2, Ričica, Ombla. Od 1996. predsjednik stručnog savjeta Elektromehaničkog biroa, a od 1998. stalni član Stručnog vijeća Elektroprojekta. Član HK CIGRE.

Živković, Veljko, voditelj odjela, dipl. ing. stroj. (Donji Miholjac, 5. V. 1953). Diplomirao (1979) na Fakultetu strojarstva i brodogradnje u Zagrebu. U Elektroprojektu 1994. Projektira i nadzire izgradnju čeličnih konstrukcija u PTE Zagreb Zapad, TE Tuzla, TE Kakanj i TE Sisak. Od 1999. vodi odjel Cjevovodi i čelične konstrukcije.

Mechanical Engineering and Naval Architecture in Zagreb. Specialised in designing pressure vessels and heat transfer equipment. From 1991, headed the NPP Krško office in Elektroprojekt. From 1998, Deputy Manager in Elektroprojekt's sister company, NUKEL d.o.o., in Krško. Member of a number of local and foreign professional associations.

Žarković, Vladimir, Zagreb, 20/12/1956. Section Head. M.Sc. (Civ. Eng.). Graduated in 1980, and acquired his Master's Degree in 1999 at the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt since 1981 on the following projects: HPP Čakovec, HPP Dubrava, HPP Krčić, HPP Osijek, HPP Moslavina, HPP Drenje, HPP Podsused, HPP Valiči, HPP Đurđevac, HPP Novo Virje, HPP Senj 2, TPP Osijek, TPP Al-Shemal, NPP Prevlaka, NPP Krško, and the Nuclear Waste Repository. From 1991 to 1994, worked as Deputy Head of the Branch office in Iran, where he managed the project of safety analyses and reconstruction of the Mahabad, Gheshlagh, Aras and Lar Dams.

Žderić, Dragomir, Rogotin, near Makarska, 15/8/1928. Lead Design Engineer. dipl. ing. (Civ. Eng.). Graduated in 1959 from the Faculty of Civil Engineering in Zagreb. Employed in Elektroprojekt from 1959 to 1993. Main involvement was with irrigation systems and with water resources and power generation projects, both at home and abroad: Nanlet, Mahabad, Urumieh, Salmas and the Dezfui Agro-Industrial Combine (Khuzestan). In Croatia he was engaged in the projects of HPS Brodarci and Đurđevac, HPP Otočac, Palanjek Diversion Dam, and the Ričica Reservoir and Dam. After 1993 he works as a Reviewer of the Elektroprojekt Design Review Council.

Žgalin, Željko, Travnik, 11/3/1954. Lead Design Engineer. dipl. ing. (Elec. Eng.). Graduated in 1977 from the Faculty of Electrical Engineering in Zagreb. Employed in Elektroprojekt since 1979. Involved in the following projects: HPPs Dubrava, Čakovec, Osijek, Novo Virje, Podsused, Prečko, Senj 2, Ričica, Ombla. From 1996, President of the Design Review Council within the Electromechanical Engineering Department. In 1998 he became a permanent member of the Elektroprojekt Design Review Council. Member of CIGRE Croatian Committee.

Živković, Veljko, Donji Miholjac, 5/5/1953. Section Head. dipl. ing. (Mech. Eng.). Graduated in 1979 from the Faculty of Mechanical Engineering and Naval Architecture in Zagreb. Employed in Elektroprojekt since 1994. Author of designs, and construction supervisor for steel structures in GTPP Zagreb Zapad, TPP Tuzla, TPP Kakanj and TPP Sisak. Since 1999, Head of Piping and Steel Structures Section.



Popis zaposlenika Elektroprojekta od osnutka do danas (do 31.12.1999)

Roll of Elektroprojekt Employees from its Foundation to date 31/12/1999

Više od 30 godina u Elektroprojektu

1. Abaffy, Miloslav, dipl. ing. (1954-1986, 31.09 g.*)	36. Medić, Anton, crtač (1959-1992, 33.00 g.)
2. Bajde, Zlatko, tehničar (1952-1993, 40.00 g.)	37. Medvedec, Perka, građ. tehn. (1952-1984, 32.04 g.)
3. Begović, Krunoslav, dipl. ing. el. (1953-1988, 34.08 g.)	38. Meić, Slavko, tehn. crtač (1953-1990, 37.06 g.)
4. Bišćan, Milan, ing. (1954-1989, 35.01 g.)	39. Meštrović, Miroslav, likvidator (1950-1984, 34.02 g.)
5. Bjedov, Todor, dipl. ing. građ. (1969- , 30.01 g.)	40. Mijač, Svetlana, dipl. ing. građ. (1957-1990, 32.09 g.)
6. Borčić, Dejan, dipl. ing. (1954-1991, 36.00 g.)	41. Mijanović-Sladović, Anđelka, dipl. ing. arh. (1955-1990, 35.01 g.)
7. Bračevac, Ivan, građ. tehn. (1949-1989, 38.02 g.)	42. Mrša, Zvonimir, dipl. ing. el. (1954-1990, 35.05 g.)
8. Brnjak, Anđela, administrator (1961-1991, 30.00 g.)	43. Mrvoš, Milan, dipl. ing. građ. (1949-1987, 34.10 g.)
9. Cvitanić, Joško, dipl. ing. el. (1952-1994, 36.06 g.)	44. Mudri, Mira, daktilograf (1960-1998, 38.09 g.)
10. Djukić, Zvonko, arh. tehn. (1950-1990, 39.04 g.)	45. Nikolić, Mira, građ. tehn. (1952-1990, 37.07 g.)
11. Đurašević, Marija, tehn. crtač (1951-1984, 32.10 g.)	46. Papić, Milan, građ. tehn. (1951-1988, 37.03 g.)
12. Flajšman, Ksenija, tehn. crtač (1955-1988, 32.11 g.)	47. Pavlin, Boris, dipl. ing. građ. (1949-1986, 37.01 g.)
13. Franković, Borislav, dipl. ing. građ. (1957- , 41.06 g.)	48. Pečar, Milivoj, tehn. crtač (1951-1991, 38.07 g.)
14. Fučkar, Vladimir, građ. tehn. (1961- , 33.09 g.)	49. Plevnik, Marija, tehn. crtač (1949-1981, 30.04 g.)
15. Fulepp, Abdon, dipl. ing. (1951-1982, 30.07 g.)	50. Posavčić, Mato, tehničar (1950-1989, 39.00 g.)
16. Galić, Kruno, dipl. ing. građ. (1968- , 30.09 g.)	51. Potočnik, Vladimir, mr. sc., dipl. ing. stroj. (1960- , 37.11 g.)
17. Gojčeta, Ivan, dipl. oec. (1956- , 43.01 g.)	52. Ptičar, Zlatko, građ. tehn. (1955-1985, 30.00 g.)
18. Golubović, Željko, građ. tehn. (1951-1983, 30.08 g.)	53. Rauch, Rudolf, stroj. tehn. (1959- , 37.00 g.)
19. Grgac, Neda, daktilograf (1961-1996, 35.02 g.)	54. Rupčić, Josip, prof. dr. sc., dipl. ing. građ. (1965- , 34.00 g.)
20. Jančikić, Franjo, tehničar (1951-1983, 32.00 g.)	55. Rusan, Milovan, dipl. ing. građ. (1969- , 30.01 g.)
21. Janković, Milan, ek. tehn. (1965-1998, 33.06 g.)	56. Sasunić, Antonio, dipl. ing. građ. (1956-1996, 39.04 g.)
22. Keglević, Zlatko, dipl. ing. građ. (1957-1998, 36.00 g.)	57. Schwartz, Zdenko, dipl. ing. građ. (1949-1983, 32.03 g.)
23. Keleš, Ivan, pomoćni radnik (1965-1998, 33.02 g.)	58. Skočilić, Zlatko, građ. tehn. (1959-1989, 30.06 g.)
24. Kres, Branko, dipl. ing. geod. (1952-1984, 31.09 g.)	59. Stipetić, Marijan, dipl. ing. geod. (1961-1995, 34.02 g.)
25. Krušlin, Antun, dipl. ing. građ. (1949-1987, 35.06 g.)	60. Stroili, Rosanda, dipl. oec. (1962-1993, 31.07 g.)
26. Lacković, Josip, el. tehn. (1957-1998, 40.00 g.)	61. Sušac, Miroslav, građ. tehn. (1949-1990, 38.03 g.)
27. Ladišić, Ivan, arh. tehn. (1951-1991, 39.01 g.)	62. Šalamon, Stjepan, ekonom (1956-1987, 31.00 g.)
28. Laić, Milan, geod. tehn. (1950-1983, 33.02 g.)	63. Šimunić, Milivoj, dipl. ing. (1951-1990, 38.05 g.)
29. Lukić, Bogdan, dipl. ing. građ. (1954-1989, 34.04 g.)	64. Šoštarić, Vjekoslav, tehničar (1951-1990, 39.00 g.)
30. Maligec, Željko, građ. tehn. (1952-1990, 37.09 g.)	65. Tonković, Ivan, građ. tehn. (1959-1990, 30.08 g.)
31. Marhofer, Armando, dipl. ing. (1952-1982, 30.01 g.)	66. Vucić, Manda, pomoćni radnik (1965-1998, 32.10 g.)
32. Marinović, Zlatko, mr. sc., dipl. ing. građ. (1967- , 31.06 g.)	67. Vuk, Čedomil, tehničar (1952-1990, 36.09 g.)
33. Martek, Ivan, građ. tehn. (1955-1992, 36.10 g.)	68. Zlatović, Branko, dipl. ing. građ. (1953-1987, 34.05 g.)
34. Maskalan, Marica, administrator (1959-1991, 32.04 g.)	69. Žderić, Dragomir, dipl. ing. građ. (1959-1993, 33.06 g.)
35. Matijašević, Josip, dipl. ing. građ. (1964- , 34.00 g.)	70. Županić, Zdravko, el. tehn. (1951-1990, 38.04 g.)

* 31.09g = 31 g i 9 mj



Od 20 do 30 godina u Elektroprojektu

1. Alić, Zoran, dipl. ing. stroj. (1975- , 24.00 g.)
2. Andrec, Sonja, ek. tehn. (1974- , 24.05 g.)
3. Ban, Vjekoslav, dipl. oec. (1965-1990, 25.03 g.)
4. Banek, Stjepan, kopirant (1949-1971, 22.04 g.)
5. Bašić, Zlatko, dipl. ing. kult. tehn. (1975- , 23.10 g.)
6. Blašković, Stanko, geometar (1952-1980, 27.08 g.)
7. Bojčetić, Čedo, dipl. ing. kult. tehn. (1972- , 26.07 g.)
8. Brajković, Mihovil, vozač (1969-1991, 22.06 g.)
9. Branković, Neven, dipl. ing. el. (1972- , 26.06 g.)
10. Broz, Tihomira, administrator (1977-1999, 22.01 g.)
11. Crljenko, Antun, građ. tehn. (1963-1987, 24.02 g.)
12. Crnić, Miroslav, tehničar (1954-1982, 27.08 g.)
13. Crnković, Mile, tehn. crtač (1979- , 20.02 g.)
14. Crnković, Željko, dipl. ing. el. (1970-1996, 25.11 g.)
15. Crnjak, Eva, ek. tehn. (1978- , 20.11 g.)
16. Cvitan, Neven, dipl. ing. građ. (1979-1999, 20.01 g.)
17. Cvitanić, Ljerka, tehn. crtač (1952-1980, 27.06 g.)
18. Čakarun, Tomislav, kopirant (1965-1991, 26.06 g.)
19. Čalogović, Marko, dipl. ing. građ. (1949-1986, 22.07 g.)
20. Čanak, Dmitar, građ. tehn. (1975- , 23.10 g.)
21. Čižmek, Zlatko, dipl. ing. arh. (1974- , 25.02 g.)
22. Ćurin, Zdenko, dipl. ing. arh. (1976- , 23.00 g.)
23. Duić, Gordana, el. tehn. (1973- , 25.06 g.)
24. Ekinović, Sabina, prof. (1979- , 20.02 g.)
25. Fakić, Alica, daktilograf (1955-1980, 22.08 g.)
26. Falkoni, Mira, daktilograf (1970-1994, 24.06 g.)
27. Fijember, Miroslav, građ. tehn. (1953-1980, 26.11 g.)
28. Gačina, Ante, dipl. ing. stroj. (1951-1972, 20.10 g.)
29. Glavočić, Ivo, dipl. ing. el. (1952-1978, 26.02 g.)
30. Glunčić, Ivan, mr. sc., dipl. ing. kult. tehn. (1979- , 20.01 g.)
31. Gojčeta, Štefica, oec. (1958-1985, 26.11 g.)
32. Golubović, Nevenka, crtač (1949-1977, 28.04 g.)
33. Goljački, Ružica, ek. tehn. (1975- , 23.09 g.)
34. Gradišnik, Zlata, tehničar (1958-1981, 23.00 g.)
35. Grgac, Božidar, građ. tehn. (1961-1994, 27.04 g.)
36. Grgić, Ivan, dipl. ing. građ. (1970- , 27.04 g.)
37. Guštin, Andrej, mr. sc., dipl. ing. građ. (1974- , 25.01 g.)
38. Halambek, Biserka, administrator (1976- , 22.08 g.)
39. Hanich, Mirko, dipl. ing. građ. (1961-1985, 22.00 g.)
40. Hendrich, Mirko, dipl. ing. el. (1958-1980, 22.00 g.)
41. Herceg, Ivanka, blagajnik (1955-1978, 23.01 g.)
42. Hubeny, Grgur, dipl. ing. geol. (1974-1995, 21.04 g.)
43. Husajina, Stjepan, građ. tehn. (1976- , 23.01 g.)
44. Jakovčić, Vojna, kopirant (1951-1974, 23.05 g.)
45. Janton, Zorica, pomoćni radnik (1976-1998, 21.07 g.)
46. Jurković, Janko, dipl. ing. građ. (1972- , 27.00 g.)
47. Jušinski, Mirjana, tehn. crtač (1976- , 23.03 g.)
48. Kalogjera, Ante, dipl. ing. stroj. (1964-1992, 28.07 g.)
49. Kašuba, Terezija, knjigovođa (1970-1991, 21.02 g.)
50. Kleščić, Boris, likvidator (1959-1989, 29.07 g.)
51. Kostović, Antonija, glavni knjigovođa (1951-1978, 27.06 g.)
52. Kraupner, Milan, dipl. ing. geod. (1975- , 22.07 g.)
53. Kuštrak, Dubravko, dipl. ing. stroj. (1972- , 26.05 g.)
54. Lacković, Marija, crtač (1960-1989, 29.06 g.)
55. Lamza, Marija, pomoćni radnik (1973- , 26.01 g.)
56. Latin, Ljubica, ek. tehn. (1975- , 23.04 g.)
57. Lazić, Bosiljka, tehn. crtač (1973- , 25.08 g.)
58. Ledić, Ranko, el. tehn. (1974- , 25.02 g.)
59. Leušić, Miroslav, geodet (1959-1980, 21.05 g.)
60. Leušić, Zorka, dipl. ing. arh. (1956-1980, 24.04 g.)
61. Majerić, Štefica, administrator (1951-1973, 21.09 g.)
62. Major, Dragutin, dipl. ing. (1960-1986, 25.10 g.)
63. Marhofer, Ankica, dipl. oec. (1964-1986, 22.08 g.)
64. Matjan, Ljudevit, dipl. ing. el. (1951-1979, 22.07 g.)
65. Mičić-Šošarić, Danica, pom. administrator (1949-1977, 28.01 g.)
66. Mičković, Božidar, građ. tehn. (1960-1991, 29.06 g.)
67. Milonja, Dobrila, knjižničar (1962-1990, 28.06 g.)
68. Mladineo, Luka, dipl. ing. građ. (1949-1979, 23.07 g.)
69. Mojsinović, Josip, dipl. ing. građ. (1970-1991, 20.10 g.)
70. Mraković, Anda, knjigovođa (1965-1991, 26.08 g.)
71. Mujanović, Vedad, dipl. ing. kult. tehn. (1972- , 26.07 g.)
72. Nardini, Davorin, dipl. ing. građ. (1952-1982, 27.01 g.)
73. Novak, Vladimir, vozač (1974- , 25.03 g.)
74. Papić, Milica, tehn. crtač (1960-1980, 20.08 g.)
75. Pavlović, Davor, dipl. ing. el. (1971- , 28.02 g.)
76. Pečnik, Marijan, vozač (1977- , 21.06 g.)
77. Pejić, Daša, referent (1965-1991, 25.11 g.)
78. Perković, Tatjana, daktilograf (1960-1989, 29.04 g.)
79. Petanjek, Dragutin, mr. sc., dipl. oec. (1962- , 25.01 g.)
80. Petračić, Ante, dipl. ing. fiz. (1963-1988, 24.10 g.)
81. Petrinović, Zdenko, dipl. ing. el. (1971-1991, 20.03 g.)
82. Polić, Luka, dipl. ing. geod. (1977- , 22.00 g.)
83. Pupiće, Lidija, ek. tehn. (1974- , 24.07 g.)
84. Radočaj, Katarina, tehn. crtač (1973- , 25.10 g.)
85. Rebić, Tomo, građ. tehn. (1972- , 26.07 g.)
86. Rehak, Erna, administrator (1949-1974, 25.00 g.)
87. Rogulja, Lenka, administrator (1973- , 20.03 g.)
88. Salzer, Petar, dipl. ing. stroj. (1971- , 28.00 g.)
89. Sečen, Vladimir, dipl. ing. kult. tehn. (1974- , 25.03 g.)



90. Sertić, Emil, el. tehn. (1978- , 20.05 g.)
91. Sever, Mirko, dipl. ing. građ. (1951-1982, 29.06 g.)
92. Sever, Zvonimir, dipl. ing. građ. (1973- , 24.11 g.)
93. Skare, Ante, dipl. ing. arh. (1950-1978, 28.00 g.)
94. Sladoljev, Vladimir, dipl. ing. arh. (1963- , 23.01 g.)
95. Soldo, Nada, tehn. crtač (1975- , 23.08 g.)
96. Stanković, Vladimir, dipl. ing. kult. tehn. (1975- , 24.02 g.)
97. Starčić, Zdenka, tehn. crtač (1951-1980, 29.01 g.)
98. Stepinac, Antun, dipl. ing. građ. (1949-1973, 21.06 g.)
99. Surla, Dragica, pomoćni radnik (1970-1990, 20.05 g.)
100. Svedrović, Marijo, građ. tehn. (1974- , 25.00 g.)
101. Šimec, Ljiljana, daktilograf (1976- , 22.10 g.)
102. Šimetin, Josip, dipl. ing. stroj. (1963-1991, 27.04 g.)
103. Šnidaršić, Danko, dipl. ing. građ. (1952-1978, 25.10 g.)
104. Štefanac, Ivan, dipl. iur. (1953-1975, 22.04 g.)
105. Štefanić, Mirko, ekonom (1955-1977, 22.00 g.)
106. Šurjak, Vukosava, građ. tehn. (1959-1985, 26.01 g.)
107. Tišljar, Marijan, modelar-stolar (1956-1985, 29.01 g.)
108. Tkalec, Vinko, geodet (1955-1978, 22.04 g.)
109. Tomić, Angelina, daktilograf (1970-2000, 30.00 g.)
110. Tutek, Ivana, dipl. ing. arh. (1979- , 20.01 g.)
111. Udina, Josip, dipl. ing. el. (1973- , 25.07 g.)
112. Vagić, Nikola, dipl. ing. el. (1976-1998, 22.00 g.)
113. Zlatec, Ankica, administrator (1966-1990, 24.09 g.)
114. Zrnčić, Alemko, tehničar (1955-1980, 25.06 g.)
115. Žgalin, Željko, dipl. ing. el. (1979- , 20.02 g.)
116. Žilavec, Miroslav, građ. tehn. (1970- , 29.02 g.)
117. Žugaj, Ranko, dr. sc., dipl. ing. građ. (1973-1995, 21.08 g.)
15. Belajec, Snježana, daktilokorespondent (1986- , 12.04 g.)
16. Benković, Aleksandar, tehn. crtač (1953-1972, 19.01 g.)
17. Beraković, Boris, prof. dr. sc., dipl. ing. (1968-1990, 17.06 g.)
18. Beraković, Marija, dipl. ing. geod. (1975-1994, 18.11 g.)
19. Bermanec, Milivoj, stroj. tehn. (1986- , 13.01 g.)
20. Bičanić, Vladimir, dipl. ing. građ. (1960-1973, 13.00 g.)
21. Bišćan, Romeo, dipl. ing. stroj. (1982-1992, 10.00 g.)
22. Bjelokosić, Vlaho, tehničar (1953-1966, 12.02 g.)
23. Borović, Damir, dipl. ing. građ. (1988-2000, 10.08 g.)
24. Bosnić, Ivan, građ. tehn. (1949-1959, 10.03 g.)
25. Božić, August, građ. tehn. (1949-1963, 14.01 g.)
26. Brachtel, Slavimir, dipl. ing. stroj. (1985-1995, 10.00 g.)
27. Brezovečki Biđin, Branko, stroj. tehn. (1964-1974, 10.09 g.)
28. Bronzović, Juraj, stroj. tehn. (1984-1994, 10.08 g.)
29. Buretić, Nikola, vozač (1982-1998, 16.02 g.)
30. Cerovac, Marijan, dipl. ing. građ. (1974-1991, 16.11 g.)
31. Cibilić, Alan, dipl. ing. građ. (1985- , 13.04 g.)
32. Crnčić, Tomislav, mr. sc., dipl. ing. stroj. (1984-1997, 12.10 g.)
33. Čalogović, Milan, dipl. ing. el. (1979-1997, 18.00 g.)
34. Čandrlić, Dragutin, vozač (1955-1973, 18.07 g.)
35. Čaržavec, Vlatkica, tehn. crtač (1985- , 13.05 g.)
36. Čepek-Svetec, Danijela, referent (1983-1995, 12.06 g.)
37. Čorak, Velimir, dipl. ing. goed. (1963-1980, 17.00 g.)
38. Čordaš, Đurđa, pomoćni radnik (1982- , 17.00 g.)
39. Derviškadić, Enes, dipl. ing. stroj. (1984-1995, 10.05 g.)
40. Didović, Stanislav, ing. građ. (1981-1996, 13.08 g.)
41. Dović, Anđelka, tehn. crtač (1982- , 16.11 g.)
42. Drobinčić, Zvonimir, dostavljač (1966-1977, 10.07 g.)
43. Dulić, Blaženka, ing. građ. (1988- , 10.11 g.)
44. Dželdumović, Sead, stroj. tehn. (1985- , 13.11 g.)
45. Filipović, Katica, čistačica (1980-1991, 10.11 g.)
46. Flajšman, Vlado, tehničar (1949-1968, 19.01 g.)
47. Gabino, Zvonko, stroj. tehn. (1986- , 13.01 g.)
48. Gaćina, Nikola, dipl. ing. stroj. (1979- , 19.01 g.)
49. Galić, Marija, glavni knjigovodja (1974-1993, 18.03 g.)
50. Galić, Zora, el. tehn. (1975-1994, 19.06 g.)
51. Glad, Slavica, arh. tehn. (1989- , 10.03 g.)
52. Gluhinić, Sanjin, građ. tehn. (1988- , 10.06 g.)
53. Golub, Igor, dipl. ing. stroj. (1988- , 11.00 g.)
54. Gregorina, Jasenka, tehn. crtač (1985- , 11.08 g.)
55. Greiner, Gustav, ing. građ. (1967-1982, 12.03 g.)
56. Gretić, Karlo, el. tehn. (1986- , 13.02 g.)
57. Guberina, Dinko, građ. tehn. (1982-1992, 10.07 g.)
58. Guldan, Vjekoslav, el. tehn. (1978- , 19.11 g.)
59. Han, Asta, daktilograf (1952-1962, 10.11 g.)
60. Hanzalek, Florijan, dipl. ing. građ. (1975-1993, 17.07 g.)

Od 10 do 20 godina u Elektroprojektu

1. Alić, Goran, tehn. crtač (1982- , 17.00 g.)
2. Anić, Davorin, el. tehn. (1987-1998, 10.08 g.)
3. Babić, Darko, dipl. ing. el. (1985- , 12.05 g.)
4. Babić, Jadranka, administrator (1977-1988, 11.00 g.)
5. Babić, Marčela, crtač (1955-1968, 12.08 g.)
6. Baborsky, Aleksandar, dipl. ing. (1951-1967, 15.11 g.)
7. Baborsky, Miljenko, dipl. ing. stroj. (1987- , 11.07 g.)
8. Banek, Sanja, administrator (1987- , 11.07 g.)
9. Barišić, Stjepan, dipl. ing. el. (1988- , 10.04 g.)
10. Bašić, Zorka, čistačica (1972-1991, 19.03 g.)
11. Batić, Mladen, arh. tehn. (1982- , 17.00 g.)
12. Batić, Veljko, dipl. ing. geol. (1983- , 15.10 g.)
13. Begović, Nevenka, daktilograf (1982- , 16.11 g.)
14. Bejuk, Zlata, tehničar (1952-1963, 11.05 g.)



61. Hep, Viktor, tehničar (1954-1964, 10.10 g.)
62. Hlad, Marija, čistačica (1982-1992, 10.03 g.)
63. Hladki, Dubravko, dipl. ing. stroj. (1989- , 10.00 g.)
64. Holubek, Jaroslav, dostavljač (1971-1988, 17.00 g.)
65. Horvat, Dragan, dipl. ing. građ. (1950-1971, 13.11 g.)
66. Huljak, Dragutin, dipl. ing. građ. (1982-1993, 11.06 g.)
67. Ivanišević, Zdenka, dipl. ing. građ. (1985-1997, 12.04 g.)
68. Jagetić, Tereza, dostavljač (1951-1965, 14.08 g.)
69. Jančijev, Tomislav, dipl. ing. brod. (1985- , 14.03 g.)
70. Jelić, Goran, dipl. ing. el. (1988- , 10.07 g.)
71. Jelušić, Ante, dipl. ing. arh. (1985- , 13.06 g.)
72. Jelušić, Fedor, dipl. ing. el. (1949-1980, 17.01 g.)
73. Jelušić, Uroš, dipl. ing. arh. (1960-1979, 16.07 g.)
74. Joković, Ana, geometar (1987- , 11.07 g.)
75. Jović, Šimun, blagajnik (1949-1963, 14.00 g.)
76. Jug, Branko, stroj. tehn. (1982- , 17.00 g.)
77. Juričan, Gordana, tehn. crtač (1975-1985, 10.08 g.)
78. Jurić, Davor, dipl. ing. el. (1976-1989, 11.06 g.)
79. Kablar, Željko, ing. stroj. (1989- , 10.00 g.)
80. Katalinić, Ivan, stroj. tehn. (1986-1998, 11.05 g.)
81. Keleš, Ratimira, pomoćni radnik (1975-1987, 11.00 g.)
82. Kersnik-Ivšić, Majda, mr. sc., dipl. ing. el. (1987- , 11.04 g.)
83. Kirac, Dino, dipl. ing. el. (1987- , 11.05 g.)
84. Klepac, Željko, dipl. ing. građ. (1975-1993, 18.05 g.)
85. Knešaurek, Norbert, dipl. ing. (1951-1962, 11.05 g.)
86. Kobal, Anton, građ. tehn. (1961-1977, 14.06 g.)
87. Konfic, Srećko, el. tehn. (1978-1993, 15.02 g.)
88. Kontić, Božo, dipl. ing. el. (1976-1992, 15.09 g.)
89. Kostelac, Ivica, dipl. oec. (1974-1993, 18.10 g.)
90. Kosti, Vilko, ing. (1952-1966, 14.02 g.)
91. Kovačević, Anka, kopirant (1977-1991, 13.10 g.)
92. Kovačić, Marijan, tehn. crtač (1971-1988, 17.04 g.)
93. Kožinec, Dragutin, dipl. ing. stroj. (1950-1966, 15.09 g.)
94. Kralj, Juraj, građ. tehn. (1982-1993, 11.06 g.)
95. Krizmanić, Ljubica, tehn. crtač (1982-1996, 14.02 g.)
96. Krušlin - mlađi, Antun, tehn. crtač (1982- , 17.00 g.)
97. Kučić, Stojan, dipl. oec. (1975-1993, 18.03 g.)
98. Kurtagić, Meho, dipl. ing. (1958-1979, 18.09 g.)
99. Kušt, Cvjetko, dipl. ing. građ. (1977-1989, 12.03 g.)
100. Kuzmić, Antiša, dipl. ing. brod. (1989- , 10.03 g.)
101. Lešković-Cvejić, Danica, knjigovođa (1955-1973, 18.06 g.)
102. Linke, Božidar, dipl. ing. el. (1985- , 14.03 g.)
103. Linke, Gordana, prof. (1988- , 10.10 g.)
104. Lukačin, Marija, kopirant (1974-1991, 17.06 g.)
105. Ljumović, Slobodan, građ. tehn. (1978-1991, 13.02 g.)
106. Magdić, Josip, pomoćni radnik (1976-1990, 14.00 g.)
107. Mahmutović, Zdenko, dipl. ing. građ. (1980- , 18.04 g.)
108. Makovac Dijak, Vjekoslav, dipl. ing. građ. (1969-1983, 11.05 g.)
109. Malbašić, Jadranka, daktilograf (1986- , 12.09 g.)
110. Mandarić, Željko, stroj. tehn. (1983- , 15.11 g.)
111. Marasović, Marijan, dipl. ing. građ. (1980- , 18.03 g.)
112. Maričić, Darko, ing. el. (1986-1996, 10.07 g.)
113. Markotić, Željka, tehn. crtač (1985-1996, 11.06 g.)
114. Marković, Vesna, dipl. ing. građ. (1985-1996, 10.06 g.)
115. Mateljan, Antun, dipl. ing. el. (1979- , 19.10 g.)
116. Mavar, Bojan, dipl. ing. građ. (1951-1979, 17.11 g.)
117. Mavrić, Marko, dipl. ing. građ. (1956-1969, 13.00 g.)
118. Medur, Božidar, dipl. ing. građ. (1963-1977, 13.04 g.)
119. Medan, Dragutin, građ. tehn. (1988- , 10.05 g.)
120. Mesarić, Vladimir, dipl. ing. stroj. (1975-1992, 17.02 g.)
121. Miholić, Alemka, građ. tehn. (1988- , 10.00 g.)
122. Mikelin, Irma, dipl. ing. org. rada (1986- , 12.04 g.)
123. Miklić, Slavko, geometar (1957-1976, 19.03 g.)
124. Milatić, Ivo, dipl. ing. građ. (1980- , 18.06 g.)
125. Minčir, Anđelka, prof. (1963-1979, 15.11 g.)
126. Mišak, Vlasta, tehn. crtač (1974-1992, 18.03 g.)
127. Mlinac, Zlatko, stroj. tehn. (1982- , 17.00 g.)
128. Molan, Nevenka, građ. tehn. (1953-1966, 11.05 g.)
129. Nejteck, Dragana, građ. tehn. (1981- , 17.11 g.)
130. Nikolić, Stjepan, dipl. ing. kult. tehn. (1974-1991, 17.00 g.)
131. Nikšić, Vjera, prof. (1962-1980, 18.02 g.)
132. Novak, Branka, referent (1988- , 10.06 g.)
133. Novaković, Momir, dipl. ing. el. (1989- , 10.03 g.)
134. Novoselac, Zlatko, mr. sc., dipl. ing. el. (1985-1997, 11.04 g.)
135. Orešković, Željko, dipl. ing. mat. (1980-1992, 12.01 g.)
136. Orlović, Dragan, dipl. ing. el. (1980- , 18.10 g.)
137. Pajk, Ines, administrator (1986- , 13.02 g.)
138. Pajtler, Renata, građ. tehn. (1988- , 10.06 g.)
139. Pavičić, Ljubica, tehn. crtač (1964-1982, 18.04 g.)
140. Pavičić, Zorka, čistačica (1965-1976, 11.05 g.)
141. Pavišić, Božidar, građ. tehn. (1982- , 17.00 g.)
142. Pavlić, Višnja, kopirant (1977-1991, 13.11 g.)
143. Pavlin, Željko, dipl. ing. građ. (1983- , 14.05 g.)
144. Pečnik, Suzana, građ. tehn. (1988- , 10.06 g.)
145. Pejić, Žarko, dipl. ing. el. (1983- , 15.00 g.)
146. Perić, Ljubo, stroj. tehn. (1976-1989, 13.02 g.)
147. Perović, Zvonimir, stroj. tehn. (1986- , 13.01 g.)
148. Petrač, Vesna, referent (1986- , 13.03 g.)
149. Petrović, Ljubica, čistačica (1965-1976, 11.07 g.)
150. Pletikapić, Zlatko, dipl. ing. građ. (1981- , 16.10 g.)
151. Podobnik, Željko, dipl. ing. građ. (1984- , 14.11 g.)
152. Poklečki, Đurđica, arhivar (1952-1962, 10.09 g.)



153. Pomenić, Šime, dipl. ing. građ. (1970-1987, 17.05 g.)
154. Pongračić, Vlasta, ek. tehn. (1973-1990, 17.00 g.)
155. Puntarec, Zvonimir, građ. tehn. (1975-1991, 16.07 g.)
156. Rapić, Katarina, hidrolog (1961-1973, 11.06 g.)
157. Rems, Jelena, ek. tehn. (1972-1990, 17.04 g.)
158. Reštarović, Ružica, crtač (1949-1959, 10.01 g.)
159. Reštarović, Stjepan, dipl. ing. (1949-1961, 12.07 g.)
160. Rundek, Ivan, elektromehaničar (1953-1963, 10.09 g.)
161. Rušec, Dubravka, tehn. crtač (1977-1993, 16.06 g.)
162. Sesardić, Slaven, dipl. ing. el. (1969-1979, 10.06 g.)
163. Simić, Rajko, dipl. ing. građ. (1976-1989, 13.04 g.)
164. Skelin, Vesna, dipl. ing. građ. (1985- , 13.07 g.)
165. Slavek, Ninoslav, mr. sc., dipl. ing. el. (1985-1997, 11.09 g.)
166. Slejko, Jozo, dipl. ing. el. (1985- , 13.06 g.)
167. Solar, Dubravko, dipl. ing. kult. tehn. (1976-1991, 15.08 g.)
168. Somek, Vera, tehničar (1953-1971, 18.02 g.)
169. Stampelj, Bogomir, vozač (1952-1969, 16.04 g.)
170. Stanković, Vesna, dipl. ing. bioteh. (1986- , 12.05 g.)
171. Starček, Petar, dostavljač (1955-1971, 16.04 g.)
172. Stergar, Branka, knjigovođa (1976-1990, 14.02 g.)
173. Stolar, Zdenko, dipl. ing. stroj. (1986- , 12.10 g.)
174. Studeny, Jadranka, tehn. crtač (1981-1994, 13.03 g.)
175. Studeny, Zlatko, el. tehn. (1987- , 11.07 g.)
176. Sušac, Ljubica, tehn. crtač (1955-1973, 15.04 g.)
177. Šamanić, Bogdan, građ. tehn. (1965-1983, 18.04 g.)
178. Šelembe, Nada, građ. tehn. (1985- , 13.05 g.)
179. Šeparović-Žuri, Sanja, dipl. ing. el. (1978-1988, 10.00 g.)
180. Šerić, Antun, dipl. ing. građ. (1956-1973, 17.02 g.)
181. Šestan, Marica, ekonomist (1989- , 10.01 g.)
182. Šikić, Maša, knjigovođa (1960-1977, 17.02 g.)
183. Šimac, Smiljan, dipl. iur. (1975-1990, 15.11 g.)
184. Škunca, Blanka, tehn. crtač (1982- , 17.00 g.)
185. Šolman, Nikola, dipl. ing. stroj. (1985- , 13.07 g.)
186. Šoljan, Milivoj, dipl. ing. građ. (1957-1973, 16.03 g.)
187. Šribar, Dubravka, tehn. crtač (1974-1991, 17.01 g.)
188. Štefanac, Dunja, daktilograf (1953-1965, 11.11 g.)
189. Štefičar, Matilda, kopirant (1972-1991, 18.10 g.)
190. Švel, Boris, dipl. ing. građ. (1971-1990, 19.01 g.)
191. Tadić, Ivanka, građ. tehn. (1981-1998, 17.04 g.)
192. Telišman, Slavko, dipl. ing. stroj. (1986- , 12.04 g.)
193. Tonković-Bišćan, Karmen, dipl. ing. arh. (1986- , 12.06 g.)
194. Trstenjak, Antun, dipl. ing. el. (1970-1982, 12.08 g.)
195. Ujlaki, Ladislav, tehničar (1960-1977, 17.08 g.)
196. Urana, Marija, dostavljač (1950-1960, 10.07 g.)
197. Veselić, Jadranka, dipl. ing. biol. (1985- , 13.06 g.)
198. Vinković, Zlatko, građ. tehn. (1983- , 12.07 g.)
199. Vrbljanin, Mladen, stroj. tehn. (1985- , 13.08 g.)
200. Vrsalović, Šime, dipl. ing. stroj. (1984- , 14.07 g.)
201. Vugrin, Jadranko, referent (1983- , 16.01 g.)
202. Vugrinec, Radovan, dipl. ing. građ. (1974-1993, 18.05 g.)
203. Vuk, Ružica, knjigovođa (1964-1978, 14.00 g.)
204. Vukelić, Davorin, tehn. crtač (1982-1995, 12.11 g.)
205. Vulas, Nikola, dipl. ing. stroj. (1987- , 10.08 g.)
206. Waldgoni, Zvonimir, dipl. ing. građ. (1955-1991, 12.09 g.)
207. Wolf, Vladimir, dipl. ing. građ. (1974-1998, 17.07 g.)
208. Zadravec, Vesna, dipl. ing. brod. (1983-1994, 11.01 g.)
209. Zglavnik, Mijo, dipl. ing. stroj. (1986- , 12.09 g.)
210. Zlatić-Jugović, Janja, dipl. ing. građ. (1978-1992, 13.08 g.)
211. Zubović, Dražen, ing. el. (1987- , 11.05 g.)
212. Zvonar, Tihomir, stroj. tehn. (1989- , 10.02 g.)
213. Žarković, Rudolf, knjigovođa (1952-1970, 17.07 g.)
214. Žarković, Vladimir, mr.sc., dipl. ing. građ. (1981- , 17.11 g.)
215. Žibrath, Kazimir, crtač (1960-1975, 15.03 g.)
216. Živković, Ana, čistačica (1955-1965, 10.06 g.)
217. Žugaj, Mladen, dipl. ing. građ. (1949-1973, 15.04 g.)
218. Županić, Zrinka, tehn. crtač (1986-1998, 12.01 g.)
219. Žužić, Mirko, dipl. ing. el. (1955-1966, 10.07 g.)

Od 1 do 10 godina u Elektroprojektu

1. Abramović, Dušan, dipl. ing. građ. (1956-1958, 1.06 g.)
2. Abramović, Eduarda, službenik (1966-1968, 2.00 g.)
3. Adamek, Đuro, dipl. ing. el. (1954-1957, 3.06 g.)
4. Alabanda, Boris, dipl. ing. geod. (1965-1967, 1.11 g.)
5. Aralica, Marin, dipl. ing. stroj. (1997- , 2.02 g.)
6. Arnold, Marijan, dipl. ing. (1960-1967, 6.08 g.)
7. Artuković, Dubravko, ing. el. (1989-1993, 3.06 g.)
8. Aunedi, Denis, dipl. ing. el. (1994-1998, 3.06 g.)
9. Badanjak, Davor, dipl. ing. građ. (1994-1996, 2.00 g.)
10. Badanjak, Marijan, el. tehn. (1994- , 4.10 g.)
11. Bagić, Ismet, ing. (1951-1954, 3.01 g.)
12. Ban, Barica, čistačica (1987-1991, 4.03 g.)
13. Baničević, Melita, daktilograf (1986-1993, 6.02 g.)
14. Barbić, Ljubomir, dipl. ing. (1960-1967, 6.10 g.)
15. Barić, Marija, dipl. ing. stroj. (1995- , 3.06 g.)
16. Barišić, Miljenko, dipl. ing. građ. (1955-1956, 1.03 g.)
17. Bauer, Jerko, dipl. ing. (1952-1956, 3.08 g.)
18. Baus, Zoran, mr. sc., dipl. ing. el. (1994-1998, 3.09 g.)
19. Becić, Dušanka, daktilograf (1955-1959, 3.07 g.)
20. Begović, Damir, dipl. ing. stroj. (1985-1991, 6.00 g.)
21. Bejuk, Branimir, dipl. ing. el. (1980-1985, 5.03 g.)
22. Beke, Paja, laborant (1950-1951, 1.02 g.)



23. Belamarić-Mrvoš, Ljiljana, dipl. ing. arh. (1982-1991, 8.11 g.)
24. Belobrajdić, Milica, daktilograf (1956-1957, 1.01 g.)
25. Benić, Rudolf, stroj. tehn. (1964-1970, 6.01 g.)
26. Benković, Vladimir, dipl. ing. (1952-1954, 2.04 g.)
27. Bertok, Mario, tehničar (1952-1953, 1.00 g.)
28. Bikfa, Ivan, dipl. ing. bioteh. (1993-1997, 3.09 g.)
29. Bilandžija, Ivan, dipl. ing. el. (1985-1990, 4.05 g.)
30. Bilić, Josip, dipl. ing. stroj. (1951-1967, 5.02 g.)
31. Bilić, Stjepan, dipl. ing. građ. (1980-1983, 3.04 g.)
32. Biljan, Mirko, dipl. ing. (1955-1958, 2.10 g.)
33. Bitanga, Ivan, dipl. oec. (1969-1971, 1.09 g.)
34. Blažeković, Mladen, dipl. oec. (1978-1981, 2.09 g.)
35. Bobanović, Roko, tehničar (1994- , 4.01 g.)
36. Bokulić, Mira, ek. tehn. (1984-1993, 9.06 g.)
37. Bolarić, Zdravko, el. tehn. (1980-1992, 8.08 g.)
38. Boršo, Mladen, dipl. ing. (1986-1987, 1.03 g.)
39. Bošan, Vladislav, građ. tehn. (1949-1953, 4.06 g.)
40. Brdar, Branko, dipl. oec. (1988-1990, 2.06 g.)
41. Brežanski, Jasna, dipl. iur. (1973-1974, 1.04 g.)
42. Britvić, Frano, dipl. ing. mat. (1986-1991, 5.06 g.)
43. Brkić, Ivica, dipl. ing. građ. (1995-1998, 3.00 g.)
44. Brkić, Luca, čistačica (1979-1991, 7.06 g.)
45. Brknjač, Ivan, dipl. ing. geod. (1987-1992, 4.08 g.)
46. Bruna, Velimir, dipl. ing. građ. (1969-1971, 1.10 g.)
47. Bujanić-Čukušić, Đurđica, dipl. oec. (1985-1993, 8.03 g.)
48. Bujas, Dinko, laborant (1950-1952, 2.07 g.)
49. Bulatović, Dušan, dipl. ing. stroj. (1982-1991, 6.06 g.)
50. Buretić, Boris, ing. građ. (1992-1996, 3.05 g.)
51. Car, Darko, dipl. ing. geod. (1984-1988, 2.05 g.)
52. Carić, Božena, prof. (1985-1991, 5.11 g.)
53. Cazin, Dragutin, dipl. ing. (1954-1959, 5.10 g.)
54. Celio Cega, Ivan, dipl. ing. arh. (1964-1969, 3.06 g.)
55. Cerovečki, Janko, tehničar (1960-1964, 2.07 g.)
56. Cibilić, Sanja, službenik (1987-1990, 3.01 g.)
57. Cicvarić-Šiftar, Jadranka, dipl. ing. el. (1987-1992, 4.08 g.)
58. Coronelli, Karlo, dipl. ing. arh. (1949-1956, 6.10 g.)
59. Crha, Velimir, tehničar (1960-1967, 7.04 g.)
60. Crljen, Pepica, financijski knjigov. (1949-1950, 1.03 g.)
61. Crnić, Mate, viši tehničar (1951-1953, 2.08 g.)
62. Cvetić, Nikola, tehničar (1958-1963, 5.00 g.)
63. Cvetković, Vladimir, dipl. ing. el. (1985-1994, 9.01 g.)
64. Čakarun, Josip, dostavljač (1960-1965, 4.05 g.)
65. Čargonja-Reicher, Koni, dipl. ing. građ. (1995- , 2.11 g.)
66. Čečuk, Anuška, daktilograf (1959-1961, 2.01 g.)
67. Čekalj, Ivan, el. tehn. (1970-1972, 1.08 g.)
68. Čengić, Bećir, dipl. oec. (1965-1974, 8.11 g.)
69. Čeović, Ilija, stroj. tehn. (1993- , 5.04 g.)
70. Čičić, Josip, dipl. ing. (1960-1962, 1.10 g.)
71. Čleković, Ivanka, građ. tehn. (1950-1953, 3.00 g.)
72. Čorak, Stipe, el. tehn. (1988-1992, 4.02 g.)
73. Čuješ, Tihomir, dipl. ing. el. (1997- , 2.01 g.)
74. Čulina, Zvonko, vozač (1962-1964, 1.09 g.)
75. Čuljak, Vera, dipl. ing. mat. (1987-1988, 1.06 g.)
76. Davidović, Milan, mr. sc., dipl. ing. el. (1989-1996, 7.09 g.)
77. Debeljak, Mladen, dipl. ing. stroj. (1991- , 7.06 g.)
78. Debeuc, Darko, građ. tehn. (1975-1977, 2.01 g.)
79. Debić, Branka, tehničar (1952-1955, 3.00 g.)
80. Delač, Alan, dipl. ing. građ. (1985-1990, 5.03 g.)
81. Delivuk, Roberta, administrator (1990- , 8.11 g.)
82. Deluka, Romeo, građ. tehn. (1951-1953, 2.00 g.)
83. Dodigović, Luka, stroj. tehn. (1991- , 7.04 g.)
84. Doknić, Slobodan, dipl. ing. građ. (1974-1976, 1.03 g.)
85. Dominković, Mladen, ing. (1953-1966, 8.03 g.)
86. Domitrović, Lidija, administrator (1964-1965, 1.01 g.)
87. Domjanić, Nikola, građ. tehn. (1950-1956, 6.02 g.)
88. Doranić, Janko, dipl. ing. stroj. (1961-1963, 1.07 g.)
89. Dorkić, Zlatko, el. tehn. (1976-1978, 1.06 g.)
90. Draganić, Josip, ing. el. (1994- , 3.11 g.)
91. Draušnik, Fedor, dipl. ing. stroj. (1985-1995, 9.09 g.)
92. Drmić, Zdravko, dipl. ing. geod. (1995-1997, 2.08 g.)
93. Drndelić, Marijan, dipl. ing. brod. (1984-1986, 2.01 g.)
94. Dujmović, Željko, dipl. ing. stroj. (1997- , 1.10 g.)
95. Dunkić, Branko, geolog (1949-1952, 1.08 g.)
96. Đido, Krešimir, el. tehn. (1997-1998, 1.06 g.)
97. Đokić, Dean, dipl. ing. građ. (1981-1987, 3.10 g.)
98. Đokić, Mladen, dipl. ing. građ. (1985-1989, 4.07 g.)
99. Đuknić, Ilija, dipl. ing. (1959-1965, 5.04 g.)
100. Ekart, Gordana, korespondent (1989-1992, 3.00 g.)
101. Faist, Hrvoje, dipl. ing. stroj. (1989-1990, 1.02 g.)
102. Filipaj, Željko, građ. tehn. (1963-1967, 2.02 g.)
103. Flego, Sonja, dipl. ing. el. (1991-1994, 3.07 g.)
104. Fontana, Lucija, daktilograf (1962-1963, 1.02 g.)
105. Fruhwirth, Borko, dipl. ing. el. (1993-1996, 2.11 g.)
106. Gaćeša, Vladimir, računovoda (1951-1960, 6.10 g.)
107. Gajer, Boris, dipl. ing. građ. (1949-1959, 9.11 g.)
108. Gajšak, Zvonimir, dipl. ing. el. (1985-1992, 7.00 g.)
109. Galetić, Sanja, daktilograf (1986-1990, 4.04 g.)
110. Galić, Andrea, dipl. ing. građ. (1994-1999, 4.07 g.)
111. Galić, Krešimir, dipl. ing. građ. (1991- , 7.02 g.)
112. Gašparić, Stjepan, dipl. ing. (1953-1956, 2.05 g.)
113. Gergelj, Josip, građ. tehn. (1989-1990, 1.10 g.)
114. Glowatzky, Bernarda, dipl. iur. (1989- , 9.09 g.)



115. Gobac, Ivan, laborant (1951-1952, 1.00 g.)
116. Golub, Vladimir, ing. org. rada (1985-1993, 7.07 g.)
117. Goršić, Zvonko, tehničar (1957-1959, 1.03 g.)
118. Grabar, Ljubica, čistačica (1956-1966, 9.11 g.)
119. Grbin, Ivo, dipl. iur. (1964-1972, 8.06 g.)
120. Grdenić, Darko, dipl. ing. stroj. (1985-1987, 1.11 g.)
121. Gretić, Marko, el. tehn. (1997- , 1.04 g.)
122. Grgičević, Petar, građ. tehn. (1975-1977, 1.08 g.)
123. Grisogona, Klara, službenik (1974-1976, 1.10 g.)
124. Grozdanić, Mara, čistačica (1965-1973, 7.11 g.)
125. Gršković, Ante, dipl. ing. el. (1995- , 4.03 g.)
126. Grubišić, Mladen, dipl. oec. (1986-1993, 7.04 g.)
127. Gruić, Darko, dipl. ing. el. (1979-1988, 9.06 g.)
128. Guliš, Željko, stroj. tehn. (1984-1991, 7.02 g.)
129. Gyorgy, Željko, referent (1971-1972, 1.05 g.)
130. Hamelec, Božidar, građ. tehn. (1993- , 6.00 g.)
131. Harapin, Dragutin, dipl. ing. stroj. (1984-1992, 8.01 g.)
132. Hartl, Vladimir, dipl. ing. el. (1976-1981, 4.06 g.)
133. Heček, Nenad, dipl. ing. građ. (1995- , 3.05 g.)
134. Hečimović, Antun, tehn. crtač (1957-1961, 1.01 g.)
135. Hemeli, Josip, dipl. ing. el. (1965-1969, 2.08 g.)
136. Hercegovac, Rizah, dipl. ing. el. (1981-1992, 9.10 g.)
137. Herendić, Branko, laborant (1949-1954, 4.05 g.)
138. Herold, Dragica, tehn. crtač (1952-1960, 7.03 g.)
139. Hlad, Vesna, referent (1984-1985, 1.08 g.)
140. Horvat, Ivanka, građ. tehn. (1955-1956, 1.04 g.)
141. Horvat, Krešimir, mr. sc., dipl. ing. građ. (1991- , 7.05 g.)
142. Horvat, Nada, daktilograf (1950-1955, 5.06 g.)
143. Horvatić, Mirko, dipl. ing. stroj. (1964-1970, 5.11 g.)
144. Hranilović, Igor, dipl. ing. građ. (1990-1993, 2.11 g.)
145. Hrastnik, Banimir, dr. sc., dipl. ing. fiz. (1983-1987, 4.03 g.)
146. Hršak, Pavao, dipl. ing. el. (1985-1989, 4.01 g.)
147. Hrubí, Luka, tehničar (1953-1955, 1.08 g.)
148. Hruševár, Željko, stroj. tehn. (1991-1998, 6.11 g.)
149. Hudec, Svjetlan, dipl. ing. građ. (1993-1997, 4.05 g.)
150. Humar, Marijan, geolog (1949-1950, 1.05 g.)
151. Humšek, Ana, crtač (1960-1962, 2.05 g.)
152. Iličić, Mirana, daktilograf (1982-1991, 9.03 g.)
153. Ilić-Roller, Dinka, dipl. ing. el. (1995-1999, 3.03 g.)
154. Imamović, Ibro, dipl. ing. el. (1978-1981, 3.04 g.)
155. Imširović, Irena, građ. tehn. (1989-1992, 2.11 g.)
156. Iveković, Sanja, administrator (1992- , 6.10 g.)
157. Iveković, Snježana, grafičar (1989-1991, 2.06 g.)
158. Jaguljnjak, Antonia, dipl. ing. građ. (1993-1998, 4.11 g.)
159. Jakovac, Dragutin, dipl. ing. el. (1992- , 6.11 g.)
160. Jakovinac, Verica, građ. tehn. (1989- , 9.07 g.)
161. Jambrošić, Štefica, kopirant (1952-1956, 3.06 g.)
162. Janton, Mirjana, dostavljač (1992-1997, 4.08 g.)
163. Javorović, Bogumil, tehničar (1952-1954, 2.04 g.)
164. Jenčić, Margareta, glavni knjigovoda (1950-1953, 2.09 g.)
165. Ježina, Dubravko, dipl. ing. građ. (1974-1979, 5.00 g.)
166. Josipović, Jasenko, dipl. ing. stroj. (1987-1988, 1.10 g.)
167. Jovičić, Duška, dipl. ing. stroj. (1992- , 6.07 g.)
168. Jovičić, Petar, dipl. ing. (1952-1958, 5.10 g.)
169. Jović, Tanja, dipl. oec. (1982-1993, 6.03 g.)
170. Jovović, Milorad, dipl. ing. geod. (1965-1968, 2.08 g.)
171. Jug, Vladimir, dipl. ing. (1954-1957, 2.11 g.)
172. Juratović, Davorin, stroj. tehn. (1982-1985, 3.07 g.)
173. Jurić, Marija, referent (1984-1992, 8.06 g.)
174. Jurić, Vedran, mr. sc., dipl. ing. građ. (1994- , 4.06 g.)
175. Jurišić, Ružica, crtač (1950-1952, 2.02 g.)
176. Kablar, Mihael, stroj. tehn. (1989- , 9.11 g.)
177. Kamenjicki, Damir, dipl. ing. el. (1994-1998, 3.05 g.)
178. Karačić, Željko, dipl. ing. el. (1984-1990, 5.06 g.)
179. Kašper, Ante, dipl. ing. (1951-1955, 3.04 g.)
180. Kavurčić, Jasna, dipl. ing. građ. (1994-1998, 3.11 g.)
181. Kavurčić, Mladen, dipl. ing. građ. (1993-1997, 4.01 g.)
182. Kereković, Alan, dipl. ing. geol. (1992- , 7.03 g.)
183. Kersnik, Ivan, dipl. ing. (1960-1962, 1.05 g.)
184. Kezele, Šime, dipl. ing. geod. (1984-1993, 9.07 g.)
185. Kežić, Marija, dipl. ing. poljopriv. (1991-1995, 3.10 g.)
186. Kirigin, Srđan, dipl. ing. (1952-1962, 9.03 g.)
187. Klanški, Ksenija, knjigovoda (1953-1955, 1.05 g.)
188. Klemen, Mladen, građ. tehn. (1994- , 4.10 g.)
189. Kliček, Zoran, dipl. ing. el. (1997- , 1.05 g.)
190. Kljaković, Krunoslav, tehničar (1952-1956, 3.08 g.)
191. Knežević, Dubravka, dipl. ing. građ. (1996- , 3.02 g.)
192. Kolak, Rajka, daktilograf (1956-1959, 3.05 g.)
193. Koler, Dragutin, dipl. ing. (1952-1955, 3.02 g.)
194. Kombol, Branko, vozač (1964-1967, 3.01 g.)
195. Komljenović, Štefko, dipl. ing. el. (1989-1991, 2.02 g.)
196. Kontek, Krešimir, el. tehn. (1990- , 8.10 g.)
197. Konjarik, Margita, tehn. crtač (1955-1956, 1.00 g.)
198. Koren, Željko, dipl. ing. građ. (1987-1990, 3.01 g.)
199. Kos, Andreja, dipl. ing. stroj. (1988-1993, 4.11 g.)
200. Kos, Cvjetan, dipl. ing. građ. (1960-1964, 4.11 g.)
201. Kos, Velimir, dipl. ing. (1963-1972, 9.00 g.)
202. Kostelac, Robert, avio mehaničar (1992-1998, 6.00 g.)
203. Kosty, Dean, dipl. ing. el. (1995- , 3.05 g.)
204. Koščec, Krno, crtač (1959-1961, 1.07 g.)
205. Koščević, Krsto, dipl. ing. građ. (1961-1968, 6.02 g.)
206. Koščina, Zlatko, dipl. ing. građ. (1972-1976, 3.10 g.)

207. Kovačić, Robert, dipl. ing. stroj. (1979-1987, 7.11 g.)
208. Kovačić, Željko, dipl. oec. (1994-1997, 3.01 g.)
209. Kozjan-Žabkar, Nešha, knjigovođa (1967-1973, 4.07 g.)
210. Kralj, Vjekoslav, pomoćni radnik (1975-1977, 1.09 g.)
211. Kramar, Drago, dipl. ing. stroj. (1994-1996, 1.10 g.)
212. Kranjčec, Ivan, ekonom (1950-1959, 8.08 g.)
213. Kranjec, Željko, ing. el. (1995- , 3.06 g.)
214. Krnić, Zvonimir, građ. tehn. (1968-1970, 1.07 g.)
215. Kroflin, Josip, dipl. oec. (1963-1969, 5.10 g.)
216. Krsnik, Boris, crtač (1951-1953, 1.10 g.)
217. Krsnik, Patricija, administrator (1992- , 6.09 g.)
218. Kučar-Dragičević, Savka, mr. sc., dipl.ing.tehn. (1987-1992, 4.10 g.)
219. Kuhta, Mladen, dipl. ing. geol. (1993-1994, 1.00 g.)
220. Kuljiš, Nikša, dipl. oec. (1988-1995, 6.09 g.)
221. Kunić, Nikola, dipl. ing. građ. (1975-1977, 1.11 g.)
222. Kutija, Vedrana, dipl. ing. građ. (1985-1990, 5.06 g.)
223. Kuvanek, Valter, dipl. ing. (1950-1953, 3.05 g.)
224. Kveton, Emilija, crtač (1959-1961, 2.00 g.)
225. Labura, Ante, stroj. tehn. (1959-1965, 3.04 g.)
226. Ladiš-Žakula, Ljerka, daktilograf (1951-1957, 6.04 g.)
227. Lakota, Josip, dr. sc., dipl. ing. el. (1985-1988, 2.11 g.)
228. Lang, Ivo, tehničar (1952-1953, 1.01 g.)
229. Laušin, Andjelka, tehn. crtač (1955-1958, 2.10 g.)
230. Lavrenčić, Ivanka, dipl. ing. arh. (1964-1967, 3.10 g.)
231. Lavrenčić, Radmilo, dipl. ing. stroj. (1964-1967, 3.02 g.)
232. Lazić, Boško, dipl. ing. stroj. (1984-1988, 2.09 g.)
233. Lazić, Mirjana, el. tehn. (1971-1972, 1.07 g.)
234. Lehpamer, Hrvoje, dipl. ing. el. (1986-1989, 2.05 g.)
235. Lesičar, Marcel, tehničar (1958-1959, 1.00 g.)
236. Leskovar, Marijan, dipl. ing. građ. (1949-1953, 4.04 g.)
237. Linčir, Pavao, dipl. ing. građ. (1965-1967, 1.03 g.)
238. Lipić, Zdravko, dipl. ing. građ. (1985-1992, 6.10 g.)
239. Loina, Miljenko, ing. el. (1996-1998, 1.11 g.)
240. Lojen, Gordana, operater unosa pod. (1987-1992, 5.02 g.)
241. Lopatić, Leonard, dipl. ing. el. (1993-1998, 5.00 g.)
242. Lovašić, Zvonko, mr. sc., dipl. ing. tehnol. (1984-1986, 2.06 g.)
243. Lukičić, Velimir, likvidator (1962-1963, 1.04 g.)
244. Lukijanović, Aleksandar, dipl. ing. (1954-1956, 2.02 g.)
245. Lukin, Davor, dipl. ing. el. (1996- , 3.02 g.)
246. Lulić, Nevenka, administrator (1963-1966, 3.00 g.)
247. Majić, Dino, ing. el. (1995-1997, 2.00 g.)
248. Majnarić, Dorian, dipl. ing. geol. (1985-1986, 1.00 g.)
249. Major, Zoran, dipl. ing. geod. (1989-1992, 3.07 g.)
250. Malović, Krunoslav, dipl. ing. el. (1986-1990, 4.02 g.)
251. Mamatzi, Josip, dipl. ing. građ. (1950-1952, 2.02 g.)
252. Mamužić, Mirko, dipl. ing. stroj. (1963-1967, 4.04 g.)
253. Mardešić, Andre, dipl. ing. stroj. (1997- , 1.10 g.)
254. Maretić, Vladimir, dipl. ing. stroj. (1964-1967, 1.04 g.)
255. Margeta, Tomislav, dipl. ing. građ. (1995- , 3.10 g.)
256. Markulin, Radovan, dipl. ing. građ. (1959-1962, 1.04 g.)
257. Maroti, Tonko, tehničar (1963-1968, 4.08 g.)
258. Maršić, Ante, dipl. ing. geod. (1966-1967, 1.03 g.)
259. Martinis, Marcel, dipl. ing. (1951-1952, 1.04 g.)
260. Martinović, Damir, dipl. ing. el. (1988-1989, 1.02 g.)
261. Matanić, Darko, dipl. ing. el. (1985-1992, 7.04 g.)
262. Mateljan, Vladimir, tehničar (1954-1956, 1.10 g.)
263. Matičec, Dubravko, dipl. ing. geol. (1993-1994, 1.00 g.)
264. Matjan, Josip, dr. sc., dipl. ing. el. (1974-1988, 9.03 g.)
265. Matković, Boško, dipl. ing. stroj. (1986-1991, 4.02 g.)
266. Mičuda, Nenad, dipl. ing. građ. (1988-1992, 4.01 g.)
267. Mihajlov, Juraj, dipl. ing. stroj. (1951-1953, 2.08 g.)
268. Mihaljević, Josip, dipl. ing. građ. (1995-1997, 2.03 g.)
269. Mihelić, Draško, mr. sc., dipl. ing. el. (1994-1998, 4.01 g.)
270. Mijić, Tatjana, službenik (1966-1967, 1.00 g.)
271. Mikić, Boris, dipl. ing. stroj. (1985-1991, 6.02 g.)
272. Milaković, Ivan, dipl. ing. brod. (1991-1994, 3.02 g.)
273. Milek, Zlatko, tehničar (1952-1955, 2.09 g.)
274. Miličević, Ankica, dipl. ing. građ. (1995-1998, 3.08 g.)
275. Miličić, Mladen, knjižničar (1988-1991, 2.06 g.)
276. Milić, Stjepan, tehničar (1960-1962, 1.11 g.)
277. Milošević, Drago, ind. tehn. (1949-1950, 1.02 g.)
278. Mirković, Martin, dipl. ing. građ. (1976-1979, 3.07 g.)
279. Miroslav, Dijana, građ. tehn. (1994- , 4.10 g.)
280. Mišetić, Stjepan, dr. sc., prof.biol. (1991- , 7.06 g.)
281. Mišić Pažin, Krešimir, dipl. oec. (1997- , 1.09 g.)
282. Miškulin, Damir, dipl. ing. el. (1994-1995, 1.07 g.)
283. Miškulin, Hrvoje, dipl. ing. građ. (1950-1979, 2.00 g.)
284. Molnar, Stevan, tehničar (1954-1957, 2.11 g.)
285. Mrakužić, Branko, dipl. ing. stroj. (1996- , 3.01 g.)
286. Mravunac, Zvonko, dipl. ing. stroj. (1991- , 7.06 g.)
287. Mrkoci, Slavko, dipl. oec. (1962-1967, 4.10 g.)
288. Mucko, Rudolf, tehničar (1957-1958, 1.03 g.)
289. Mučić, Vinko, dipl. ing. (1952-1955, 3.06 g.)
290. Muhek, Filip, tehničar (1951-1954, 3.02 g.)
291. Muller, Sven, dipl. ing. građ. (1989-1992, 2.12 g.)
292. Nenadović, Mihovil, dipl. ing. el. (1960-1964, 4.05 g.)
293. Neumann-Kiseljak, Daniela, dipl. ing. el. (1985-1989, 3.08 g.)
294. Nevistić, Krešimir, dipl. ing. el. (1997-1999, 2.00 g.)
295. Nevistić, Miron, dipl. ing. građ. (1969-1971, 2.07 g.)
296. Nikolić, Dušan, dipl. ing. stroj. (1964-1970, 6.08 g.)
297. Nikolić, Željko, mr. sc., dipl. ing. el. (1986- , 9.11 g.)
298. Ninković, Grozdan, vozač (1954-1958, 4.00 g.)



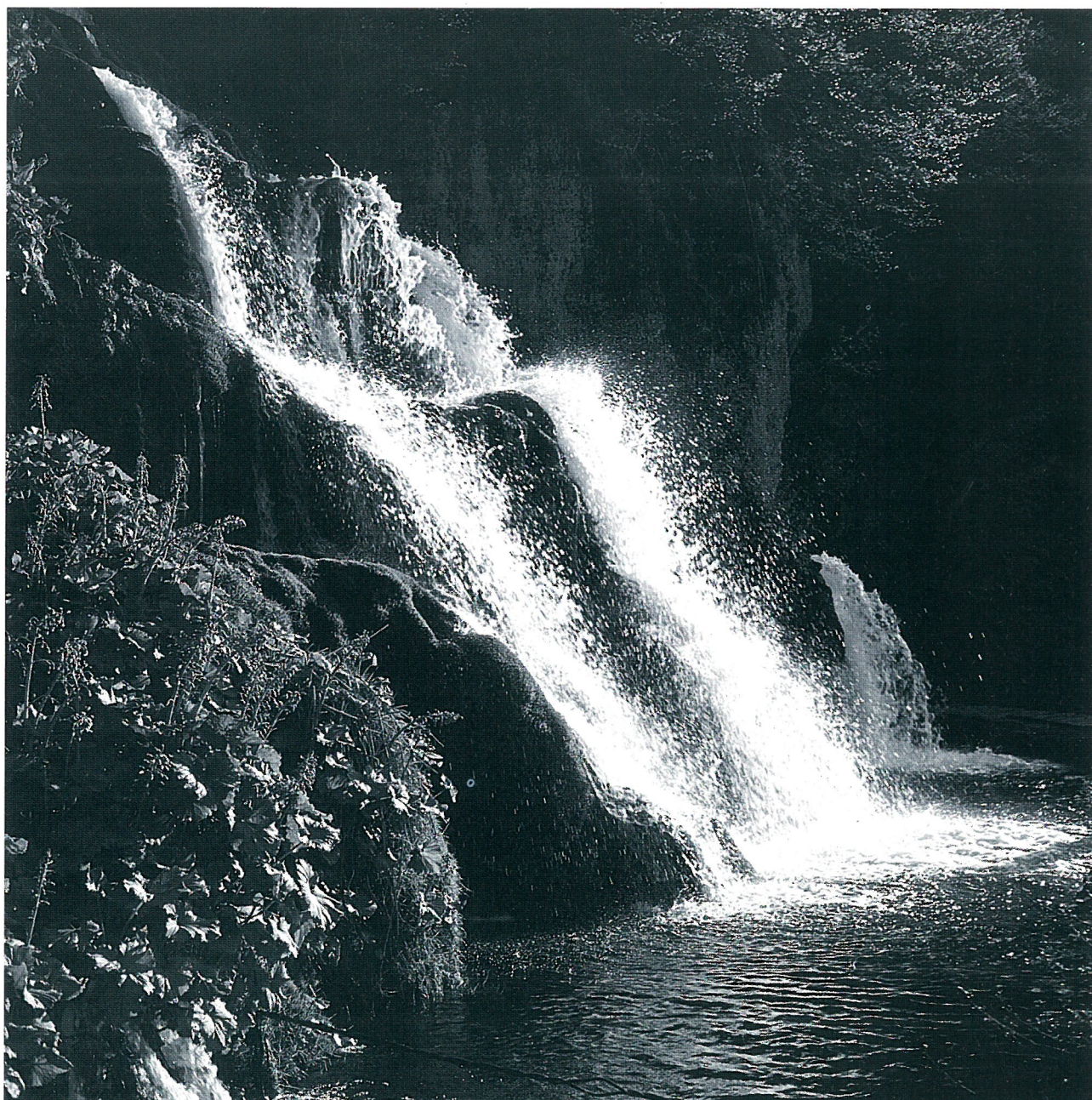
299. Nonweiller, Ervin, prof. dr. sc., dipl. ing. (1951-1952, 1.02 g.)
300. Novak, Branko, ind. tehnol. (1965-1967, 1.03 g.)
301. Novak, Dragan, dipl. ing. (1961-1968, 7.00 g.)
302. Novak, Marijan, el. tehn. (1955-1957, 1.11 g.)
303. Nović, Muharem, vozač (1959-1961, 1.07 g.)
304. Novina, Vera, tehn. crtač (1955-1956, 1.02 g.)
305. Novosel, Franjo, ekonom (1959-1961, 2.07 g.)
306. Oberman, Zvonko, tehničar (1950-1954, 3.07 g.)
307. Oblak, Boris, dipl. ing. stroj. (1989-1993, 4.02 g.)
308. Orešković, Želimir, dipl. ing. građ. (1969-1971, 2.07 g.)
309. Orsag, Tatjana, dipl. ing. stroj. (1991-1993, 1.01 g.)
310. Oškera, Vjekoslav, laborant (1958-1963, 4.07 g.)
311. Palm, Nada, crtač (1960-1964, 4.03 g.)
312. Palman, Dominik, dipl. ing. (1954-1957, 3.00 g.)
313. Panić, Dragutin, tehničar (1951-1955, 4.01 g.)
314. Papeš, Miroslav, stroj. tehn. (1995- , 3.06 g.)
315. Paradžik, Davor, dipl. ing. građ. (1995- , 3.09 g.)
316. Pasinović, Vesna, planer (1950-1952, 2.01 g.)
317. Pavelić, Jelena, tehničar (1953-1956, 3.05 g.)
318. Pavić, Blaženka, ek. tehn. (1978-1983, 5.07 g.)
319. Pavić, Zlatko, el. instalater (1989-1992, 3.03 g.)
320. Pažić, Mihajlo, crtač (1951-1955, 3.11 g.)
321. Pečar, Ivan, crtač (1952-1957, 5.01 g.)
322. Pejčić, Mirjana, daktilograf (1962-1965, 2.07 g.)
323. Penavić, Jozo, dipl. ing. geod. (1965-1968, 2.06 g.)
324. Penavić, Željko, dipl. ing. el. (1983-1988, 5.00 g.)
325. Penc, Mihajlo, dipl. oec. (1978-1985, 7.07 g.)
326. Pendić, Ivan, ekonom (1955-1956, 1.04 g.)
327. Perić, Ljiljana, dipl. ing. el. (1985-1987, 1.08 g.)
328. Perić, Stanko, dipl. ing. stroj. (1988-1996, 8.03 g.)
329. Periša, Zora, laborant (1949-1950, 1.04 g.)
330. Pešarić, Ibrahim, crtač (1959-1962, 2.11 g.)
331. Petanjek, Davor, precizni mehaničar (1991-1996, 5.05 g.)
332. Petanjek, Ljerka, službenik (1969-1971, 2.00 g.)
333. Petar, Zlatko, građ. tehn. (1986-1991, 5.03 g.)
334. Petračić, Dinko, dipl. ing. el. (1994-1999, 4.05 g.)
335. Petričić, Marija, bibliotekar (1949-1952, 3.07 g.)
336. Petričić, Živko, građ. tehn. (1950-1952, 2.02 g.)
337. Petrić, Vinko, dipl. ing. (1952-1954, 2.03 g.)
338. Petrošanec, Antun, podvornik-dostavljač (1956-1957, 1.05 g.)
339. Petrović, Ivan, vozač (1952-1954, 2.07 g.)
340. Petrovski, Dušan, laborant (1951-1954, 2.10 g.)
341. Petyo, Ivan, dipl. ing. (1951-1955, 4.01 g.)
342. Pfaff, Miljenko, dipl. ing. hidrol. (1964-1973, 8.08 g.)
343. Pintarić, Davor, el. tehn. (1998- , 1.02 g.)
344. Plačko, Krunoslav, dipl. ing. stroj. (1985-1993, 8.05 g.)
345. Plačko, Marlena, službenik (1988-1991, 2.09 g.)
346. Planinec, Mirko, tehničar (1961-1965, 2.04 g.)
347. Plašćar, Ljudevit, dipl. ing. građ. (1949-1962, 3.07 g.)
348. Pleško, Josip, ing. stroj. (1991- , 7.07 g.)
349. Podhraški, Marijan, dipl. ing. stroj. (1984-1993, 9.00 g.)
350. Polenšek, Zora, tehn. crtač (1953-1957, 2.05 g.)
351. Popovac, Goran, vozač (1987-1993, 6.09 g.)
352. Posavec, Marija, ekonomist (1985-1993, 8.02 g.)
353. Posavec, Zlatko, dipl. ing. stroj. (1985-1990, 4.08 g.)
354. Potočnik, Vera, knjigovođa (1950-1956, 5.07 g.)
355. Požman, Željko, stroj. tehn. (1996- , 3.02 g.)
356. Prekupec, Davorin, dipl. ing. el. (1985-1991, 5.10 g.)
357. Prevarek, Ivica, ing. zaštite od požara (1989-1994, 4.10 g.)
358. Princ, Ivan, crtač (1949-1951, 2.09 g.)
359. Pupiće, Biserka, ek. tehn. (1974-1981, 7.01 g.)
360. Puškaš, Antun, dipl. ing. građ. (1966-1972, 6.02 g.)
361. Putanec, Biserka, ek. tehn. (1991- , 8.00 g.)
362. Putanec, Ivan, dipl. ing. el. (1981-1990, 9.01 g.)
363. Rabar, Mislav, tehničar (1951-1952, 1.00 g.)
364. Radeljak, Vlatka, dipl. ing. građ. (1995- , 4.00 g.)
365. Radovanović, Radina, ek. tehn. (1976-1982, 6.00 g.)
366. Rastovski, Aleksandar, dipl. ing. stroj. (1955-1959, 4.05 g.)
367. Ratković, Margareta, tehničar (1958-1961, 2.03 g.)
368. Rauker, Boris, dipl. ing. građ. (1969-1971, 2.07 g.)
369. Rebić, Marijana, crtač (1960-1962, 2.05 g.)
370. Ricić, Đuro, građ. tehn. (1974-1975, 1.01 g.)
371. Ristić, Zdravko, stroj. tehn. (1986-1994, 7.11 g.)
372. Rogovsky, Vladislav, tehn. crtač (1955-1959, 3.10 g.)
373. Roksandić, Nenad, dipl. ing. građ. (1988-1991, 2.11 g.)
374. Rončević, Rudolf, dipl. ing. građ. (1963-1969, 5.05 g.)
375. Rozman, Goran, mr. sc., dipl. ing. stroj. (1986-1992, 6.04 g.)
376. Rumiha, Dubravko, ing. el. (1994- , 5.00 g.)
377. Ružić, Marinko, dipl. ing. građ. (1969-1973, 3.06 g.)
378. Ružić, Vladimir, dipl. ing. el. (1996-1998, 1.08 g.)
379. Sabljak, Raul, dipl. ing. (1953-1956, 3.07 g.)
380. Sabolek, Mirko, tehničar (1969-1972, 3.10 g.)
381. Sajko, Željko, dipl. ing. stroj. (1997- , 1.10 g.)
382. Sakar, Vlatka, dipl. oec. (1988-1990, 1.05 g.)
383. Salaj, Adela, crtač (1952-1958, 6.04 g.)
384. Sataić, Ivan, tehničar (1958-1961, 2.08 g.)
385. Schmidtbauer, Mirjana, administrator (1966-1968, 2.03 g.)
386. Sedić, Jakob, dipl. ing. stroj. (1978-1987, 6.03 g.)
387. Seitz, Ivan, dipl. ing. (1960-1962, 2.00 g.)
388. Sesar, Zdravko, dipl. iur. (1985-1989, 3.11 g.)
389. Sever, Marija, dipl. ing. stroj. (1992-1995, 2.09 g.)
390. Sever, Mark, dipl. ing. stroj. (1997-1998, 1.02 g.)



391. Simić, Milenko, dipl. ing. građ. (1976-1982, 6.02 g.)
392. Singer, Ljiljana, crtač (1959-1964, 4.06 g.)
393. Sirovica, Siniša, mr. sc., dipl. ing. građ. (1983-1987, 4.00 g.)
394. Skarić, Dušan, građ. tehn. (1949-1955, 6.02 g.)
395. Skelin, Mile, dipl. ing. el. (1986-1993, 7.01 g.)
396. Skorić, Mirjana, administrator (1965-1968, 3.10 g.)
397. Slade, Ante, ek. tehn. (1949-1950, 1.04 g.)
398. Smokvina, Josip, dipl. ing. (1954-1957, 2.11 g.)
399. Smoljanović, Gabro, dipl. ing. stroj. (1987-1996, 8.08 g.)
400. Solariček, Tomica, dipl. ing. stroj. (1993-1995, 2.02 g.)
401. Srakočić, Vladimir, dipl. ing. el. (1986-1987, 1.02 g.)
402. Stanić, Ana, tehn. crtač (1954-1958, 4.04 g.)
403. Starinec, Ivica, dipl. ing. stroj. (1996- , 3.02 g.)
404. Starman, Jadranka, dipl. oec. (1993- , 5.05 g.)
405. Stipetić, Boris, dipl. ing. el. (1995- , 3.11 g.)
406. Strineka, Mladen, dipl. ing. građ. (1975-1978, 3.01 g.)
407. Sudžuka, Mario, ing. građ. (1994- , 4.09 g.)
408. Suhanek, Ivan, dipl. ing. (1951-1955, 4.00 g.)
409. Sumić, Vojid, dipl. ing. građ. (1975-1978, 3.06 g.)
410. Sušić, Marijan, dipl. ing. građ. (1952-1958, 6.05 g.)
411. Sviličić, Nikša, dipl. ing. mat. (1989-1993, 4.09 g.)
412. Šabarić, Zoran, građ. tehn. (1997-1998, 1.02 g.)
413. Šander, Miroslav, mr. sc., dipl. ing. stroj. (1992- , 7.00 g.)
414. Šandrić, Eugen, kopirant (1975-1983, 8.05 g.)
415. Šekrst, Štefica, čistačica (1983-1991, 8.00 g.)
416. Šelemba, Ivan, građ. tehn. (1996- , 2.10 g.)
417. Šemnički, Željko, arh. tehn. (1974-1975, 1.00 g.)
418. Šepetanc, Dijana, dipl. ing. el. (1983-1987, 3.06 g.)
419. Šestanović, Siniša, dipl. ing. el. (1994-1997, 2.08 g.)
420. Šimat, Marko, dipl. ing. el. (1984-1991, 7.01 g.)
421. Šimić, Veselko, ing. el. (1991- , 7.07 g.)
422. Šimović, Ljiljana, dipl. ing. građ. (1987-1990, 3.10 g.)
423. Šimunović, Damir, dipl. ing. geol. (1988-1990, 1.03 g.)
424. Šipuš, Olga, tehn. crtač (1960-1962, 2.06 g.)
425. Škalić, Miljenko, građ. tehn. (1985-1988, 3.05 g.)
426. Škanata, Dejan, dipl. ing. el. (1986-1990, 4.00 g.)
427. Škare, Javor, dipl. ing. el. (1994-1998, 4.04 g.)
428. Škorić, Sanda, inokorespondent (1992-1993, 1.03 g.)
429. Šmintić, Milica, čistačica (1965-1966, 1.07 g.)
430. Šneler, Slavko, dipl. ing. brod. (1965-1967, 2.02 g.)
431. Šobić, Dean, el. tehn. (1997- , 1.11 g.)
432. Šojat, Ivan, dipl. ing. građ. (1974-1976, 2.03 g.)
433. Šoštaric, Zvonimir, geometar (1952-1955, 2.08 g.)
434. Špoljar, Darinka, čistačica (1986-1991, 5.03 g.)
435. Štajduhar, Milan, građ. tehn. (1968-1973, 2.05 g.)
436. Štefan, Damir, mr. sc., dipl. oec. (1988-1991, 3.07 g.)
437. Štefičar, Mario, kopirant (1985-1990, 4.08 g.)
438. Šteković, Jovan, geometar (1949-1950, 1.00 g.)
439. Štimac, Ivica, tehničar (1985-1987, 2.11 g.)
440. Štrukelj, Edo, geometar (1952-1957, 4.08 g.)
441. Šušnić, Mladen, dipl. ing. el. (1986-1987, 1.04 g.)
442. Šutalo, Ivan, dipl. ing. stroj. (1996-1999, 2.02 g.)
443. Švenda, Nikola, dipl. ing. el. (1986-1990, 4.00 g.)
444. Tadić, Kamenko, dipl. ing. građ. (1975-1976, 1.00 g.)
445. Tadić, Stanko, dipl. ing. stroj. (1960-1968, 8.00 g.)
446. Taritaš, Bernarda, daktilograf (1959-1962, 3.07 g.)
447. Tilošanec, Ivan, dipl. iur. (1980-1984, 4.01 g.)
448. Tomečić, Božidar, dipl. ing. el. (1992-1997, 5.01 g.)
449. Tomičić, Berislav, dipl. ing. građ. (1987-1992, 4.02 g.)
450. Tomičić, Borna, dipl. ing. kult. tehn. (1973-1979, 6.02 g.)
451. Tomić, Gordana, referent (1984-1991, 7.01 g.)
452. Tomić, Ivan, dipl. ing. (1954-1956, 2.01 g.)
453. Tomić, Ivica, stroj. tehn. (1997- , 1.10 g.)
454. Tomić, Slavko, dipl. ing. el. (1981-1991, 7.05 g.)
455. Tonković, Nikola, dipl. ing. el. (1996- , 2.07 g.)
456. Tor, Krešimir, dipl. ing. građ. (1988-1994, 5.03 g.)
457. Trbuhović, Žarko, knjigovođa (1957-1959, 1.05 g.)
458. Trojnar, Nevenka, daktilograf (1964-1969, 4.09 g.)
459. Tumpa, Miroslav, dipl. ing. stroj. (1991- , 8.00 g.)
460. Turk, Roman, dipl. ing. stroj. (1989-1991, 2.06 g.)
461. Turko, Sofija, crtač (1952-1957, 4.09 g.)
462. Tus, Žarko, el. tehn. (1985-1987, 1.06 g.)
463. Tušar, Zvonko, dipl. ing. stroj. (1963-1964, 1.01 g.)
464. Ulrich, Ladislav, dipl. ing. građ. (1949-1951, 1.10 g.)
465. Urlić, Davorka, viši stručni služb. (1950-1953, 2.07 g.)
466. Uzelac, Blaž, dipl. ing. (1951-1955, 3.11 g.)
467. Vagić, Nenad, el. tehn. (1989-1990, 1.04 g.)
468. Vajnaht, Slobodan, dipl. ing. el. (1986-1994, 7.09 g.)
469. Varjačić, Reno, crtač (1951-1957, 5.04 g.)
470. Vecko, Zdravko, dipl. ing. el. (1982-1985, 3.08 g.)
471. Vilman, Anton, dipl.ing.el. (1990-1992, 2.00 g.)
472. Vinković, Božidar, laborant (1957-1964, 6.05 g.)
473. Vlah, Branimir, dipl. ing. stroj. (1995- , 4.03 g.)
474. Vlašić, Sonja, tehn. crtač (1952-1958, 6.00 g.)
475. Vodnica-Cuderman, Antonia, dipl. ing. građ. (1958-1967, 5.11 g.)
476. Vori, Zoran, dipl. ing. stroj. (1996-1998, 1.04 g.)
477. Vrabec, Velimir, knjigovođa (1971-1980, 8.07 g.)
478. Vranković, Ivan, dipl. ing. stroj. (1984-1990, 5.02 g.)
479. Vranković, Mario, ing. građ. (1995- , 3.06 g.)
480. Vujičić, Mladen, građ. tehn. (1994- , 4.10 g.)
481. Vukičević, Dušan, ek. tehn. (1965-1969, 3.00 g.)
482. Vuković, Jakov, dipl. ing. (1952-1956, 3.10 g.)



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| 483. Vuković, Vesna, tehn. crtač (1975-1977, 2.06 g.) | 498. Žakula, Danilo, dipl. ing. (1952-1955, 3.00 g.) |
| 484. Vulić, Marko, ing. stroj. (1992-1997, 5.00 g.) | 499. Živić, Željko, dipl. ing. (1953-1960, 7.11 g.) |
| 485. Vulinec, Ivan, laborant (1950-1951, 1.05 g.) | 500. Živković, Veljko, dipl. ing. stroj. (1994- , 5.03 g.) |
| 486. Zadravec, Lidija, dipl. ing. stroj. (1992-1998, 3.11 g.) | 501. Žuri, Mladen, dipl. ing. el. (1992-1998, 6.06 g.) |
| 487. Zadro, Jozo, el. tehn. (1991-1993, 1.06 g.) | |
| 488. Zadrović, Zlatko, tehničar (1960-1962, 1.06 g.) | |
| 489. Zaharijevski, Ilija, građ. tehn. (1949-1951, 1.05 g.) | |
| 490. Zdjelar, Milan, dipl. ing. stroj. (1985-1990, 5.05 g.) | |
| 491. Zgaga, Zoran, tehničar (1954-1956, 2.09 g.) | |
| 492. Zmanjšek, Gertruda, daktilograf (1952-1956, 3.09 g.) | |
| 493. Znidarčič, Marijana, administrator (1983-1984, 1.01 g.) | |
| 494. Zolia, Faketa, knjigovoda (1965-1975, 9.08 g.) | |
| 495. Zupanc, Rene, dipl. ing. stroj. (1991-1997, 5.11 g.) | |
| 496. Zverčina, Dragutin, dipl. ing. (1951-1954, 3.07 g.) | |
| 497. Zvizdić, Davor, dr. sc., dipl. ing. stroj. (1986-1987, 1.04 g.) | |







1.

Radni prostori
Vizualni
identitet

Work Premises
Visual Identity



2



Radni prostori *Work Premises*

Elektroprojekt započinje svoj rad u zgradi u Medulićevoj ulici br. 40 na nevelikom i slabo opremljenom prostoru smještenom na prvom i drugom katu. Taj je prostor bio premalen, pa je kao radni prostor poslužio i jedan stan u Prilazu Gjüre Deželića nedaleko od križanja s Medulićevom ulicom.

Proširenjem djelatnosti i povećanjem broja ljudi Elektroprojekt se 1952. godine seli u zgradu Elektre u Gundulićevoj ulici br. 32. U toj lijepoj gradskoj palači arhitekta Juraja Denzlera Elektroprojekt se smješta i radi na III., IV. i V. katu.

Lipnja 1963. Elektroprojekt se seli na novu lokaciju u ulicu Proleterskih brigada 37 (današnja Ulica grada Vukovara), u dvorišnu zgradu izgrađenu i za potrebe Elektroprijenosa.

U toj prvoj vlastitoj poslovnoj zgradi Elektroprojekt zauzima prostor površine od 1 800 m² od III. - VII. kata (VII. kat dograđen je poslije).

Svoje "narasle" potrebe za poslovnim prostorom u idućim godinama Elektroprojekt rješava kupnjom prostora na nekoliko lokacija na kojima se zadržava kraće ili dulje vrijeme, a spominjemo samo važnija i ona u kojima još uvijek djeluje.

Godine 1984. u poslovnoj zgradi, djelu arhitekata Nikšića i Dragomanovića u ulici grada Vukovara 72, na VI. katu na površini od 783 m² Elektroprojekt smješta Arhitektonsko-geodetski i Informatičko-telekomunikacijski biro.

Od 1986. do 1988. u Središću, u ulici Cazija bb, u zgradi koju je projektirao Đuro Mirković, smješteni su radni timovi TE Plomin i NE Prevlaka, te Strojarski biro.

Godine 1988. Elektroprojekt napušta Središće, kupuje prostor i smješta Strojarski biro u poslovni toranj Cibone, djelo arhitekta Marijana Hrčića, na trgu Dražena Petrovića. Radni prostori nalaze se na XIV., XV. i XVI. katu ukupne površine 1 182 m².

Elektroprojekt began its operations working out of 40 Medulićeva Street, Zagreb, in small and poorly equipped premises on the first and second floor. Since those premises were far too small, an apartment in Prilaz Gjüre Deželića, not far from its intersection with Medulićeva Street, constituted additional office space.

The expansion of activities and the increase in the number of employees compelled Elektroprojekt to seek larger premises, and in 1952 moved to the Electric Industry building at 32 Gundulićeva Street, where the company occupied the 3rd, 4th and 5th floors of the beautiful building designed by the architect Juraj Denzler.

In 1963, Elektroprojekt moved yet again, this time to a new location at 37 Proleterskih Brigada Street (today's Ulica grada Vukovara), into a courtyard building that was also built for the needs of Elektroprijenos.

In this, the first office building of its own, Elektroprojekt occupies an area of 1800m², from the 3rd to the 7th floor (the latter floor was added subsequently).

Its growing need for office space continued over subsequent years, and Elektroprojekt resolved the problem by acquiring premises in a number of locations, which it occupied over a shorter or longer period of time. Of those, we will mention only the significant ones, or those still occupied by the company.

In 1984, Elektroprojekt acquired an area of 783m² on the 6th floor of the office building at 72, Ulica grada Vukovara, designed by architects Nikšić and Dragomanović, where the Architecture-Geodesy and Informatics-telecommunications Bureaux were located.

From 1986 to 1988, the working teams for TPP Plomin and NPP Prevlaka, as well as the Mechanical Engineering, Bureau operated out of Cazi Street, bb, in Središće, in a building designed by Đuro Mirković.

In 1988 Elektroprojekt left Središće and bought new premises in the Cibona Business Tower, designed by

3.



Sve to vrijeme, još od 1954., Elektroprojekt radi s većim ili manjim brojem ljudi i u inozemstvu (Burma, Egipat, Etiopija, Libija, Iran, Alžir), a od 1983. skupina stručnjaka trajno radi u Nuklearnoj elektrani Krško koristeći se njezinim poslovnim prostorom kao svojim uredom.

Nakon osnivanja Elektroprojektove tvrtke NUKEL d.o.o. u Sloveniji (1996), kupljen je vlastiti prostor u Krškom, veličine oko 170 m².

Na ove tri lokacije: ulica grada Vukovara 37 i 72, te poslovni toranj Cibona, Elektroprojekt ostaje do veljače 1999., kada se seli u novu vlastitu poslovnu zgradu u ulici Alexandera von Humboldta br. 4.

4.



5.



architect Marijan Hržić and located at Dražen Petrović Square. Those premises are on the 14th, 15th and 16th floor, and cover an area of 1182m².

During all that time, from 1954, Elektroprojekt had a number of its employees working abroad, in (Burma, Egypt, Ethiopia, Libya, Iran, and Algeria),, and from 1983 a group of its experts has been permanently located in NPP Krško, using its office space as their own.

Following the formation of the Elektroprojekt affiliated company NUKEL d.o.o. in Slovenia (1996), Elektroprojekt purchased its own premises (c. 170m²) in Krško.

The company continued to utilise the following three locations: 37 and 72 Ulica grada Vukovara, and the Cibona Business Tower, up until February 1999, when it moved to its own Office Building at 4 Alexander von Humboldt Street.

The construction of its own Office Building finally enabled the company to locate all its bureaux under one roof, as well as ensuring space for future growth and expansion.

Based on the competition design by architects Hržić and Kolbach, Elektroprojekt experts, headed by project designer Ante Jelušić, have produced the entire spectrum of project documentation - conceptual, general and final project, projects for external and interior design, as well as performing supervision work and managing finalisation works.

6.



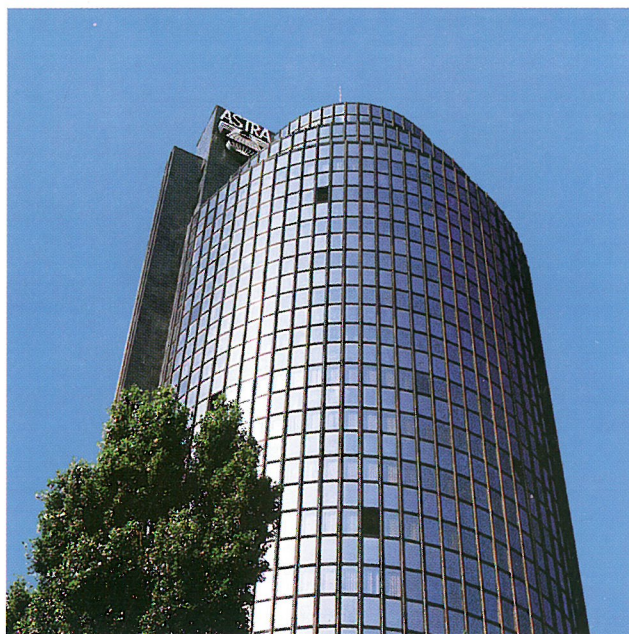
Izgradnjom vlastite poslovne zgrade napokon su na jednome mjestu smješteni svi dijelovi poduzeća, a osigurani su i prostori za budući rast i razvoj Elektroprojekta.

Prema natječajnom radu arhitekata Hržića i Kolbacha, stručnjaci Elektroprojekta, na čelu s voditeljem i projektantom Antom Jelušićem, izradili su kompletnu projektnu dokumentaciju - idejni, glavni i izvedbeni projekt, projekte vanjskog i unutarnjeg uređenja, te obavljali nadzor i vodili završne radove.

Zgrada ima podrum, prizemlje i pet katova gdje su na 7500 m² površine smješteni suvremeno uređeni i opremljeni različiti radni i poslovni prostori.

Z. Čizmek

7.



8.

1. Zgrada u Medulićevoj 40

2. Nova poslovna zgrada

3. Zgrada Elektre u Gundulićevoj 32

4. Zgrada HEP-a u Vukovarskoj 37 u kojoj je dijelom bio smješten Elektroprojekt

5. Zgrada u Središću

6. Nova poslovna zgrada - Glavni ulaz

7. Zgrada u Vukovarskoj 37

8. Poslovni toranj Cibona

9. Poslovna zgrada u Vukovarskoj 72

1. Office building in 40 Medulićeva St.

2. New office building

3. Elektra office building in 32 Gundulićeva St.

4. Croatian Power Board office building in 37 Vukovarska St. accommodating parts of Elektroprojekt

5. Office building in Središće

6. New office building - Main entrance

7. Office building in 37 Vukovarska St.

8. Cibona tower

9. Office building in 72 Vukovarska St.

9.





Vizualni identiteti *Visual Identity*

Tijekom godina Elektroprojekt Zagreb je mijenjao svoj vizualni identitet, ali uvijek ostajući profesionalno korektan i prepoznatljiv te usklađen s vizualnim standardima vremena.

Od osnivanja Elektroprojekt Zagreb koristi logotip:

Elektroprojekt Zagreb has changed its visual identity, but it always remained professionally fair and recognizable within the framework of visual identity standards of the time.

After foundation, Elektroprojekt Zagreb used below logotype

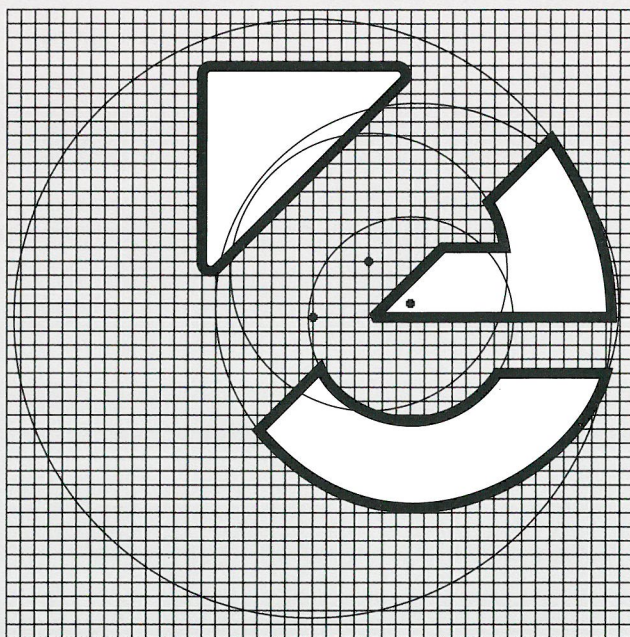
elektroprojekt
consulting engineers
zagreb — yugoslavia

U pedesetima Elektroprojekt Zagreb mijenja svoj logotip koji se zadržao do današnjih dana, a nakratko u nekim propagandnim materijalima pojavljuje se znak-kratica:

During the fifties, Elektroprojekt Zagreb, changed the logotype and it remained the same since, while in some brochures the acronym was used



elektroprojekt
consulting engineers
zagreb - yugoslavia





1979. godine Elektroprojekt Zagreb radikalno mijenja svoj vizualni identitet zadržavajući objektivnu i metaforičku razinu. Tim iz CENTRA ZA INDUSTRIJSKO OBLIKOVANJE - CIO (Ljubičić, Brčić) osmišljava potpuno novi znak, redizajnira logotip te rješava njihovu mnogo-brojnu primjenu na grafičke i druge materijale:

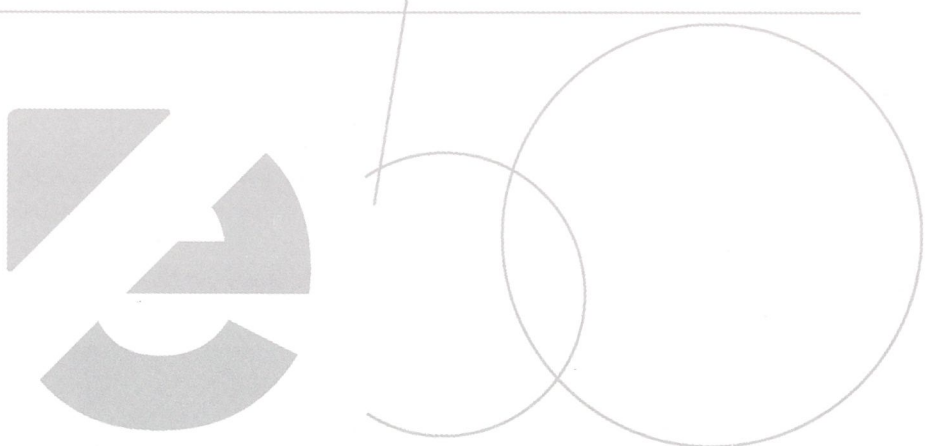
In 1979 Elektroprojekt Zagreb thoroughly changed its visual identity while maintaining its objective and metaphorical level. The designers' team of the INDUSTRIAL DESIGN CENTER (Ljubičić, Brčić) conceived a completely new trade mark, redesigned the logotype developed complete company image design

elektroprojekt

Doživjevši punih pedeset godina postojanja i rada Elektroprojekt Zagreb ponovo osuvremenjuje svoj vizualni kod po zamisli istog autora Borisa Ljubičića.

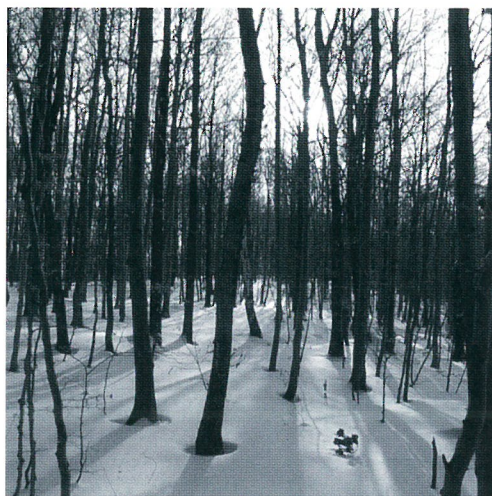
Z. Čížmek

After 50 years of its existence, Elektroprojekt Zagreb refreshes its visual code through a concept of the same author, designer Boris Ljubičić.

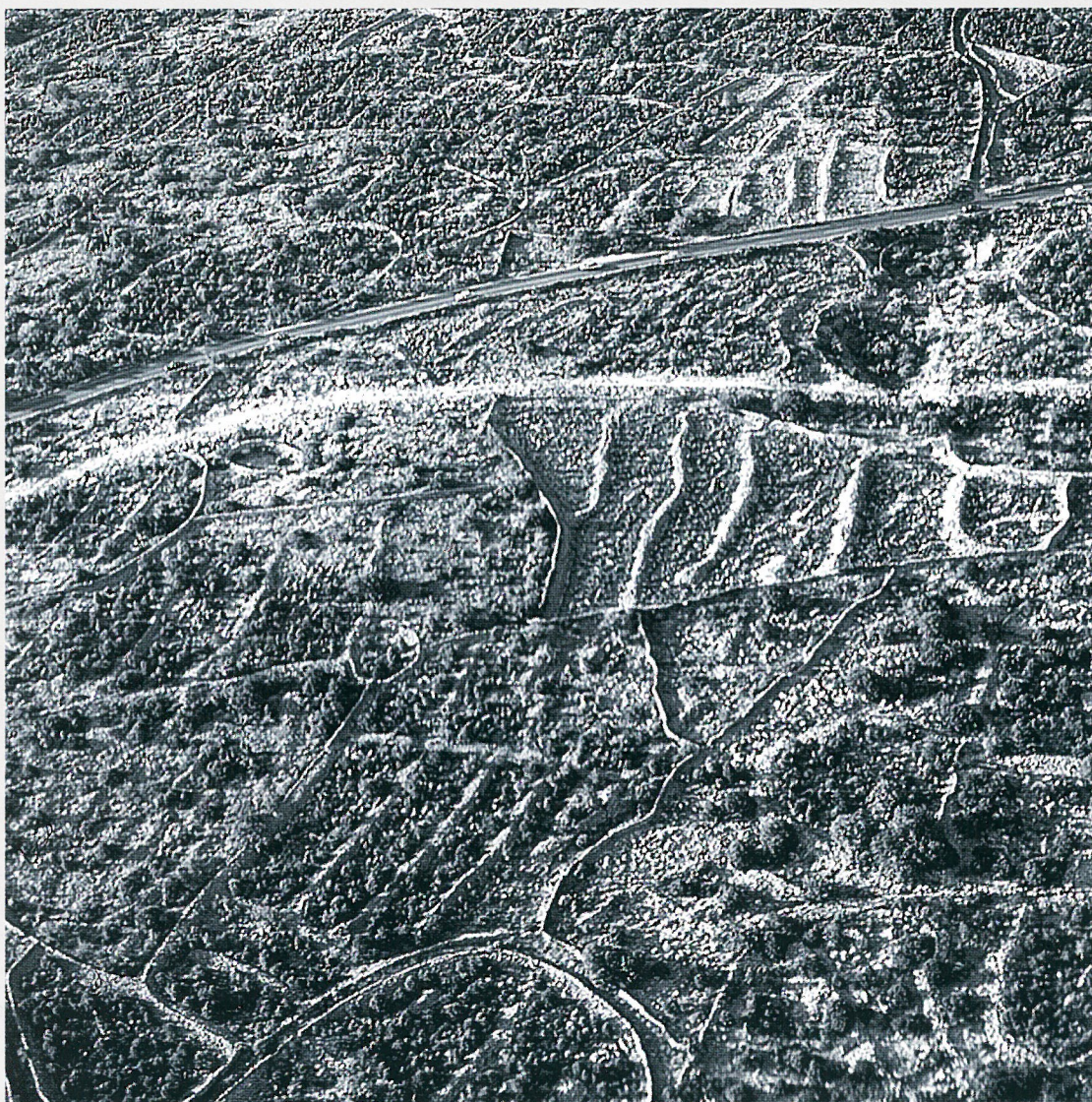


elektroprojekt





Suradnja Elektroprojekta s međunarod- nim stručnim organizacijama, sveučilišnim i znanstvenim institucijama	<i>Co-operation between Elektroprojekt and International Professional Organisations, University and Scientific Institutions</i>
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Suradnja Elektroprojekta s međunarodnim stručnim organi- zacijama

U proteklih pedeset godina svoga postojanja Elektroprojekt je preko svojih djelatnika aktivno surađivao s međunarodnim stručnim udrugama, djelovanja kojih se poklapaju s djelatnostima Elektroprojekta.

Sudjelovanjem, bilo u radu organa takvih udruga, bilo na međunarodnim konferencijama u njihovoj organizaciji, djelatnici Elektroprojekta bili su u mogućnosti svjetskoj znanstvenoj i stručnoj javnosti prikazati rezultate svoga rada, izmijeniti stečena iskustva, te uspostaviti poslovne kontakte s kolegama iz cijeloga svijeta. Prepoznajući i u takvu obliku djelovanja povećanje kvalitete i uspješnosti rada, rukovodstvo Elektroprojekta takvoj je suradnji davalo veliku potporu.

Vrlo uspješna suradnja uspostavljena je s vrlo uglednom udrugom International Commission on Large Dams - ICOLD, koja se bavi problematikom vezanom uz planiranje, projektiranje, građenje i održavanje velikih brana, a djeluje preko nacionalnih komiteta država članica.

39. Executive Meeting ICOLD-a održan je 1971. u Dubrovniku. Elektroprojekt je u svojstvu člana, tada Jugoslavenskoga komiteta za velike brane, kao nacionalnoga komiteta ICOLD-a, jedan od glavnih organizatora ovoga skupa, budući da je predsjednik organizacijskog odbora bio Milan Mrvoš, tada direktor Hidrobiroa. Na ovom sastanku ICOLD-a osnovan je Komitet za okoliš. Za člana ovoga Komiteta izabran je Milan Mrvoš u kojemu je aktivno djelovao do 1985. godine.

Od 1975. do 1979. godine Milan Mrvoš bio je predsjednik Jugoslavenskoga komiteta za velike brane -

Co-operation between Elektroprojekt and International Professional Organisations

Throughout the 50 years of its existence, Elektroprojekt has realised and has enjoyed active co-operation with international professional organisations whose spheres of activities correspond with those of Elektroprojekt.

Participation in the work of the bodies of such organisations, whether at international conferences or within their organisations, has enabled Elektroprojekt employees to present to the scientific and professional public of the world the results of their work, to exchange acquired experience, and to forge business contacts with colleagues from all over the world. Recognising the potentials for the improvement of quality and success of their work through such forms of contacts, the Management of Elektroprojekt has lent its full support to such forms of co-operation.

One of the most highly reputable associations with which an extremely successful co-operation has been established is the International Commission on Large Dams (ICOLD), which deals with problems related to planning, design, construction and maintenance of large dams, and which operates through the national committees of member states.

The 39th Executive Meeting of ICOLD took place in 1971 in Dubrovnik. Elektroprojekt, as a member of the then Yugoslav Committee for Large Dams, (which, being a national committee, was part of ICOLD), was one of the chief organisers of the meeting. The President of the Organisation Board was Milan Mrvoš, who at the time was Director of the Hydro Bureau. It was at that meeting of ICOLD that a Committee for the Environment was formed. One of its elected members



JKVB, i u tom svojstvu aktivno je sudjelovao u radu izvršnih tijela ICOLD-a. Suradnju s ICOLD-om Milan Mrvoš nastavlja i kao potpredsjednik za Hrvatsku u Predsjedništvu JKVB-a sve do 1989. godine, kada ga na toj funkciji zamjenjuje prof. dr. Josip Rupčić.

Prof. Marko Čalogović je od 1991. do 1993. član Komiteta za beton ICOLD-a i aktivno sudjeluje u njegovu radu na problemima vezanim uz beton hidrotehničkih građevina.

Suradnja s ICOLD-om nastavljena je i nakon osamostaljenja Republike Hrvatske, osnivanjem 1992. godine, upravo na inicijativu djelatnika Elektroprojekta, a posebno glavnog direktora Krune Galića, Hrvatskog društva za velike brane - HDVB-a, sa sjedištem u Elektroprojektu. HDVB je iste godine na 60. Executive Meetingu održanom u Granadi primljen kao Hrvatski nacionalni komitet u punopravno članstvo ICOLD-a. Predsjednik je Društva od njegova onivanja prof. dr. Josip Rupčić, a tajnik Zdenko Mahmutović.

Članstvo u ICOLD-u omogućilo je predstavnicima HEP-a, Elektroprojekta i HDVB-a informiranje međunarodne stručne javnosti o događanjima na brani Perući od njezine okupacije do ponovnog puštanja u pogon. Na međunarodnoj konferenciji "Dam Safety Evaluation" održanoj u Grindelwaldu u Švicarskoj u travnju 1993. godine u organizaciji ICOLD-a, na plenarnoj su sjednici predložena događanja na brani prije miniranja, te oštećenja brane nakon miniranja. Na međunarodnoj konferenciji "Upgrading and Refurbishing Hydropower Plants IV", održanoj u Firenzi u prosincu 1993., na plenarnoj su sjednici također prikazane varijante rješenja te izabrano rješenje sanacije brane.

Pored aktivnog sudjelovanja u radu izvršnih tijela kao predsjednik HDVB-a, prof. Rupčić je član Komiteta za temeljenje brana ICOLD-a.

Od 1968. do 1972. godine Elektroprojekt je bio član ugledne međunarodne organizacije International Association for Hydraulic Research - IAHR, s kojom je uspješno surađivao.

Godine 1978. Milan Mrvoš je osnovao Zajednicu konzalting organizacija Jugoslavije sa sjedištem u Zagrebu, u kojoj do 1986. obavlja funkciju predsjednika Izvršnog odbora. Kao Nacionalni komitet ova je udruga odmah

was the aforementioned Milan Mrvoš, who remained an active member until 1985.

Milan Mrvoš was President of the Yugoslav Committee for large Dams (JKVB) from 1975 to 1979, and as such participated in the work of ICOLD executive bodies. He continued his co-operation with ICOLD as Vice-president for Croatia within the JKVB Presidency until 1989, when Prof. Dr. Josip Rupčić took over from him.

Prof. Marko Čalogović was a member of the Committee for Concrete within ICOLD from 1991 to 1993, taking an active part in its work, dealing with problem areas related to concrete in hydro-technical structures.

Co-operation with ICOLD continues, following Croatia's independence. In 1992, at the initiative of the people in Elektroprojekt, and in particular its General Director, Kruno Galić, the Croatian Commission for Large Dams (HDVB) was founded, with its seat in Elektroprojekt. In the same year, at the 60th Executive Meeting, which took place in Granada, HDVB was accepted, as the Croatian National Committee, into full membership of ICOLD. The President of the Committee since its foundation is Prof. Dr. Josip Rupčić, and its Secretary, Engineer Zdenko Mahmutović.

ICOLD Membership enabled the representatives of Croatian Electric Energy Industry, of Elektroprojekt and the HDVB, to keep the international community informed about events at the Peruća dam, from its occupation to its re-commissioning. At the international conference "Dam Safety Evaluation", which took place in April 1993 in Grindelwald in Switzerland, organised by the ICOLD, the sequence of events at the dam before it was blown up, and the consequent damage suffered by the dam, was presented at the plenary session. In December of that same year, at the international conference "Upgrading and Refurbishing Hydropower Plants IV", held in Florence, variations of reconstruction designs were presented at the plenary session, and the design for the reconstruction of the dam was selected.

In addition to being President of the HDVB, and actively involved in the work of executive bodies, Prof. Rupčić is also a member of the Committee for Dam Foundation within ICOLD.



po osnivanju 1978. primljena u Fédération Internationale des Ingénieurs Conseils - FIDIC, uglednu međunarodnu konzalting organizaciju s kojom uspostavlja uspješnu suradnju.

Godine 1992. osnovano je Hrvatsko društvo za tunele sa sjedištem u Elektroprojektu. Za predsjednika Društva izabran je prof. dr. Mladen Hudec, a za tajnika djelatnik Elektroprojekta Zvonimir Sever. Hrvatsko društvo za tunele iste je godine primljeno kao punopravni član u uglednu međunarodnu organizaciju International Tunnelling Association sa sjedištem u Parizu, s kojom je uspostavio vrlo uspješnu suradnju.

Od 1998. Elektroprojekt je član International Hydropower Association, udruge tvrtki, znanstvenika i stručnjaka koji se bave planiranjem, projektiranjem, građenjem, upravljanjem i održavanjem hidroenergetskih postrojenja.

prof. dr. J. Rupčić

From 1968 to 1972 Elektroprojekt was a member of a reputable International Associations for Hydraulic Research - IAHR, with which it enjoyed a successful co-operation.

In 1978, Engineer Milan Mrvoš founded the Association of consulting organisations of Yugoslavia, with its seat in Zagreb, of which he was President of the Executive Board until 1986. As a National body, immediately upon its foundation this association was accepted into the Fédération Internationale des Ingénieurs Conseils - FIDIC, a prestigious international consulting organisation, with which a successful cooperation was established.

In 1992, the Croatian Committee for Tunnels was formed, with its seat in Elektroprojekt. Prof. Dr. Mladen Hudec became President of the Committee, its Secretary Zvonimir Sever, an employee of Elektroprojekt. In the same year the Committee was accepted as a full member of the Paris-based International Tunnelling Association, since when a very successful co-operation has been established.

Since 1998, Elektroprojekt has been a member of the International Hydropower Association, an association of companies, scientists and experts engaged in planning, design, construction, management and maintenance of hydro-energy plants.



Suradnja Elektroprojekta sa sveučilišnim i znanstvenim institucijama

Co-operation between Elektroprojekt and University and Scientific Institutions

Zbog svoje složenosti i specifičnosti, projekti koji se rade u Elektroprojektu zahtijevaju od inženjera, pored velikog stručnog znanja, često i znanstveni pristup rješavanju pojedinih problema. Za neke od djelatnika Elektroprojekta bio je to poticaj da se stručno i znanstveno usavršavaju, te postanu priznati stručnjaci i znanstvenici u onim tehničkim disciplinama koje predstavljaju osnovu djelatnosti Elektroprojekta od njegova osnivanja do danas. Kao takvi bili su pozvani da svoje znanje i iskustvo stečeno znanstvenim radom i radom na konkretnim projektima i njihovoj realizaciji prenesu na nove naraštaje budućih inženjera. Upravo se u ovoj činjenici sastoji bit i kvaliteta suradnje između Elektroprojekta i sveučilišnih institucija.

Ovakva suradnja počinje već 1951. godine, dakle samo dvije godine nakon osnivanja Elektroprojekta, kada prof. dr. Mladen Žugaj, tada šef Odjela za hidroelektrane u Elektroprojektu, kao honorarni nastavnik preuzima katedru Korištenje vodnih snaga na Građevinskom fakultetu. Iako 1959. prelazi na Građevinski fakultet, prof. Žugaj ostaje u stalnoj suradnji s Elektroprojektom i to do 1994. kao predsjednik Stručnog savjeta i znanstveni savjetnik, a sve do danas kao znanstveni savjetnik. U tom svojstvu prof. Žugaj svojim savjetima pomaže projektantima u rješavanju pojedinih problema i na taj način utječe na postizanje visoke kvalitete projekata izrađenih u Elektroprojektu. Po njegovoj preporuci nemali broj tek diplomiranih inženjera započinje svoju stručnu karijeru u Elektroprojektu u kojemu se razvijaju u vrsne stručnjake, a neki od njih pod njegovim mentorstvom stječu i znanstveno-nastavna zvanja.

Godine 1985. na Građevinskom fakultetu u Zagrebu

Due to their complexity and specific nature, projects undertaken by Elektroprojekt demand that the engineers involved, in addition to possessing considerable professional know-how, are able to approach individual problems from a scientific standpoint. For a number of those employed in Elektroprojekt this has proved sufficient inspiration to enhance their professional and scientific education, to become recognised experts and scientists in the technical disciplines which form the basis for activities in which Elektroprojekt has been engaged from its foundation to the present day. As such, they have been called upon to transfer their knowledge and experience, acquired through scientific work and work on concrete projects and their realisation, to new generations of future engineers. It is this fact which epitomises the essence and the quality of co-operation between Elektroprojekt and university institutions.

That co-operation began as early as 1951, in other words, only two years after the formation of the company, when Prof. Mladen Žugaj, the then Head of the Department for Hydro-power Plants in Elektroprojekt, took over the Department of Utilisation of Water Power at the Faculty of Civil Engineering as a part-time lecturer. Although he went on to teach full time at the Faculty of Civil Engineering in 1959, Prof Žugaj continued his co-operation with Elektroprojekt until 1994 as President of the Council of Experts, and Scientific Advisor. To this day he remains a scientific advisor. His advice assists project designers in dealing with certain problems, thus having an influence on the achievement of the high quality projects produced in Elektroprojekt. It was on his recommendation that a considerable num-



uvodi se katedra Hidrotehničke građevine, koju preuzima i do danas drži prof. dr. Josip Rupčić, stalni djelatnik Elektroprojekta.

Istovremeno se uvodi i katedra Hidrotehnički sustavi, koju preuzima i drži prof. dr. Boris Beraković, do 1990. godine stalni djelatnik Elektroprojekta, kada prelazi na Građevinski fakultet u Zagrebu.

Odlaskom prof. Žugaja u mirovinu 1985. katedru Korištenje vodnih snaga preuzima u zvanju višeg predavača njegov dugogodišnji asistent Borislav Franković, također stalni djelatnik Elektroprojekta. Od 1995. ovu katedru drži prof. Boris Beraković.

Katedru Hidrologija na Građevinskom fakultetu u Zagrebu od 1965. do 1980. drži prof. Antun Stepinac, jedan od osnivača Elektroprojekta i njegov stalni djelatnik do 1965. Prelaskom na Građevinski fakultet on do umirovljenja 1980. i dalje vodi hidrološku grupu u Hidrobirou, a nakon umirovljenja do smrti 1985. prof. Stepinac djeluje u Elektroprojektu kao znanstveni savjetnik.

Hidrološku grupu od prof. Stepinca preuzima i vodi doc. dr. Ranko Žugaj, djelatnik Elektroprojekta do 1995. godine, koji od 1993. g. drži katedru Hidrologija na Rudarsko-naftno-geološkom fakultetu u Zagrebu.

Prof. Čalogović, također jedan od osnivača Elektroprojekta, 1965. preuzima, u Zavodu za kulturnu tehniku Geodetskog fakulteta u Zagrebu, katedre Statika, Betonske i armirano-betonske konstrukcije, Drvene konstrukcije. I on nastavlja aktivnu suradnju s Elektroprojektom sve do danas i to u svojstvu voditelja statičko-konstruktorske grupe u Hidrobirou i znanstvenog savjetnika za statiku i betonske konstrukcije.

Stručnjaci Elektroprojekta na Građevinskom fakultetu u Zagrebu djeluju i kao asistenti. Na katedri Hidromehanika vježbe su držali mr. Andrej Guštin od 1977. do 1992. i doc.dr. Ranko Žugaj od 1977. do 1995.

Na katedrama Korištenje vodnih snaga i Hidrotehničke građevine od 1985. vježbe drže mr. Berislav Tomić do 1992., Zlatko Pletikapić do 1994., Zdenko Mahmutović do 1998. Sada na ovim katedrama vježbe drži Željko Pavlin.

ber of newly graduated engineers began their professional careers in Elektroprojekt, where they went on to become top quality experts. Under his mentorship, a number of them progressed to achieve superior scientific and teaching qualifications.

In 1985, the Faculty of Civil Engineering in Zagreb opened a new department, Hydro-technical structures, which ever since has been headed by Prof. Dr. Josip Rupčić, a full-time employee of Elektroprojekt.

At the same time yet another department was introduced, Hydro-technical systems, headed by Prof. Dr. Boris Beraković, who was employed fulltime in Elektroprojekt until 1990., when he moved to the Faculty on a permanent basis.

With the retirement of Prof Žugaj in 1985, the department Utilisation of water power was taken over by his long-time assistant, Borislav Franković, as Senior Lecturer. He was also permanently employed in Elektroprojekt. Since 1995 this department has been headed by Prof. Boris Beraković.

From 1965 until 1980, the department of Hydrology at the Faculty of Civil Engineering in Zagreb was headed by Prof. Antun Stepinac, one of the founders of Elektroprojekt and its full-time employee until 1965. Despite his move to the Faculty, he remained Leader of the Hydrology group in the Hydro Bureau until his retirement in 1980. Following his retirement, until his death in 1985, Prof. Stepinac acted as a Scientific Advisor in Elektroprojekt.

The Hydrology group was taken over from Prof. Stepinac by Assistant Professor, Dr. Ranko Žugaj, who worked in Elektroprojekt until 1995, heading the department of Hydrology at the Faculty of Mining-Oil-Geology since 1993. in Zagreb.

In 1965, Prof. Čalogović, also one of the founders of Elektroprojekt, took over the departments of Statics, Concrete and reinforced concrete structures and Timber structures at the Institute for Cultural Technology at the Faculty of Geodesy in Zagreb. Nonetheless, his active co-operation with Elektroprojekt continues to this day, in the role of Leader of the statics-construction group within the Hydro Bureau, and as Scientific Advisor for statics and concrete structures.



Nadalje, Krunoslav Begović, tada direktor Elektrobira, od 1979. do 1985. u Zavodu za energetska postrojenja Fakulteta strojarstva i brodogradnje u Zagrebu, kao viši predavač, drži katedru Hidroenergetska postrojenja. Svoja predavanja iz ovoga kolegija objelodanio je u knjizi Hidroenergetska postrojenja - uvod u probleme izbora opreme, koja i danas služi kao vrlo koristan priručnik projektantima. Prije toga je Krunoslav Begović u razdoblju od 1949. do 1966. bio na Elektrotehničkom fakultetu asistent iz predmeta Mreže i instalacije te predavač iz predmeta Enciklopedija proizvodnje, prijenosa i razdiobe električne energije. Što se tiče suradnje s Fakultetom strojarstva i brodogradnje, treba također spomenuti da je Tomislav Jančijev niz godina asistent na katedri Konstrukcija plovnih objekata, kao i to da je Miljenko Baborsky bio asistent na katedri za Energetska postrojenja od 1989. do 1993.

Ovakva uspješna suradnja u nastavi na fakultetima Sveučilišta u Zagrebu ne bi se mogla ostvariti da joj rukovodstvo Elektroprojekta nije dalo bezrezervnu potporu znajući da je takav oblik suradnje jedan od najboljih načina podizanja kvalitete projekata.

U cilju povećanja kvalitete projekata Elektroprojekt je također tijekom svojega pedesetogodišnjeg rada, uspostavio vrlo uspješnu suradnju s fakultetima i znanstvenim institucijama njihovim angažiranjem, bilo u izradi specijalističkih elaborata, bilo angažiranjem, njihovih znanstvenika kao recenzenata pojedinih dijelova projekata i sudjelovanja u radu Stručnog vijeća Elektroprojekta.

To su, navedeni abecednim redom: Brodarski institut, Državni hidrometeorološki zavod Zagreb, Elektrotehnički fakultet Zagreb, Energetski institut "Hrvoje Požar", Fakultet strojarstva i brodogradnje Zagreb, Fakultet poljoprivrednih znanosti Zagreb, Geodetski fakultet Zagreb, Geofizički zavod Prirodoslovno-matematičkog fakulteta Zagreb, Građevinski fakultet Split, Građevinski fakultet Zagreb, Institut za geološka istraživanja, Institut građevinarstva Hrvatske, Institut za elektroprivredu i energetiku Zagreb, Institut "Ruđer Bošković", Institut "Rade Končar", Institut za ribarstvo Zagreb, Rudarsko-geološko-naftni fakultet Zagreb, Šumarski fakultet Zagreb, Šumarski institut Jastrebarsko, Urbanistički institut Zagreb.

Ovakvim odnosom prema struci i znanosti

Experts from Elektroprojekt also work as assistants at the Faculty of Civil Engineering in Zagreb. Practical work at the Hydro-mechanics Department was taught by Andrej Guštin, M.Sc., from 1977 to 1992, and by Assistant Professor, Dr. Ranko Žugaj from 1977 to 1995.

At the Utilisation of water power and Hydro-technical structures Departments, practical work was taught by Berislav Tomičić from 1985 until 1992; by Zlatko Pletikapić until 1994, and by Zdenko Mahmutović until 1998. At this point in time, practical work at these departments is being taught by Željko Pavlin.

Furthermore, from 1979 to 1985, Krunoslav Begović (who at that time was Director of the Electro-Bureau) headed the Department of Hydro-energy plants at the Faculty of Mechanical Engineering and Naval Architecture in Zagreb as a Senior Lecturer. He had his lectures published in the book Hydro-energy plants - introduction to the problem of equipment selection, which is still proving itself to be an extremely useful textbook for designers. Prior to that appointment, from 1949 to 1966, Prof. Begović was an Assistant at the Faculty of Electrical Engineering for the subject Systems of networks and installations, as well as being a lecturer on the subject of Encyclopaedia of production, transfer and distribution of electric energy. With regard to co-operation with the Faculty of Mechanical Engineering and Naval Architecture, we also have to mention Tomislav Jančijev, who for years has been an Assistant at the Department of ship structures, as well as Miljenko Baborsky, who was an assistant at the Department of Energy Plants from 1989 to 1993.

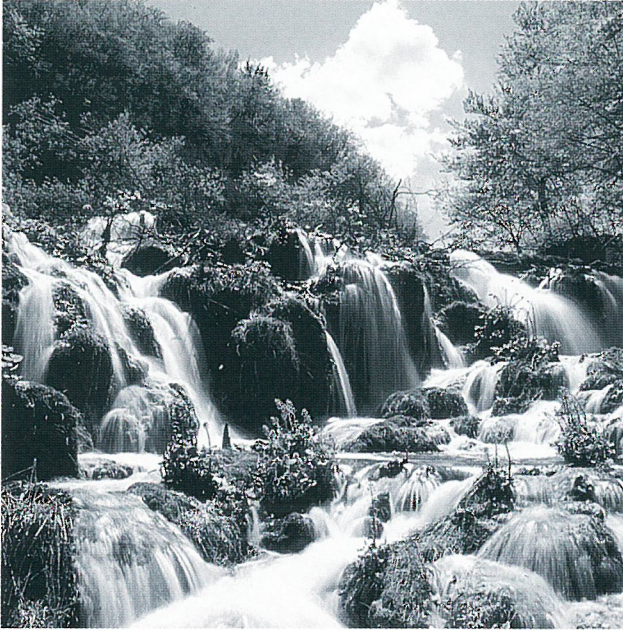
Such a successful record of co-operation in tuition at the faculties of the Zagreb University could never have been realised if the management of Elektroprojekt had not given it its full support, being fully cognisant of the fact that such a form of co-operation is one of the best ways to raise the quality of projects.

With that very aim in mind, during the course of its work over the past fifty years, Elektroprojekt has realised an extremely successful co-operation with faculties and scientific institutions by engaging their services, either for the production of specialised studies, or by engaging their scientists as reviewers of particular elements within a project, and in co-opting them to participate in the work of the Elektroprojekt Council of



Elektroprojekt je stekao velik ugled među znanstvenim institucijama što je i službeno potvrđeno upisom Elektroprojekta u Upisnik znanstveno-istraživačkih pravnih osoba Ministarstva znanosti i tehnologije u znanstvenom području tehničkih znanosti čime je stekao pravo i na obavljanje znanstveno-istraživačke djelatnosti.

prof.dr.J. Rupčić



Experts.

Listed alphabetically, those faculties and institutions are: Faculty of Agricultural Sciences, Zagreb; Faculty of Civil Engineering, Split; Faculty of Civil Engineering, Zagreb; Croatian Institute of Civil Engineering; Faculty of Electrical Engineering, Zagreb; Institute for Fishing, Zagreb; Faculty of Forestry; Institute for Forestry, Jastrebarsko; Faculty of Geodesy, Zagreb; Institute for Geological Research; Geophysical Institute at the Faculty of Natural Sciences and Mathematics, Zagreb; Hrvoje Požar Energy Institute; National Hydro-meteorological Institute, Zagreb; Faculty of Mechanical Engineering and Naval Architecture, Zagreb; Faculty of Mining-Oil-Geology, Zagreb; Naval Institute; Rade Končar Institute; Ruđer Bošković Institute; Institute for Urban Planning, Zagreb; Institute for Water Resources and Energy Industry, Zagreb.

Such an approach to the profession and to science has earned Elektroprojekt an enviable reputation among scientific institutions, which has been officially confirmed by the entry of the company into the Register of Scientific and Research Legal Persons at the Ministry of Science and Technology in the scientific field of technical sciences, which entitles Elektroprojekt to engage in scientific and research activities.





1.

Pretvorba Elektroprojekta u dioničko društvo Elektroprojekt - kadrovski i financijski	<i>Transformation of Elektroprojekt into a Shareholder Company Elektroprojekt - Manpower and Finances</i>
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Pretvorba Elektroprojekta u dioničko društvo

Krajem 1980-ih godina doneseni su prvi zakoni koji su se bavili problemima privatizacije poduzeća u tadašnjem društvu. To su bili Zakon o poduzećima i Zakon o društvenom kapitalu. U Elektroprojektu se vrlo rano počelo razmišljati o privatizaciji, ponajprije zbog činjenice što se Elektroprojekt uvijek razvijao i jačao oslanjajući se isključivo na vlastite snage. Tako se može reći da je Elektroprojekt nastao znanjem i radom svojih ljudi pa je bilo logično da su oni bili zainteresirani da postanu njegovi suvlasnici. Zbog toga je u 1990. godini, točnije 10. X. 1990. na sjednici Radničkog savjeta, donesena odluka o početku priprema za provedbu projekta pretvorbe društvenog poduzeća Elektroprojekt u dioničko društvo. Provedene su samo neke pripremne radnje i obavljena prva anketa među zaposlenicima.

Nastankom nove hrvatske države 1991. neki su zakoni preuzeti iz bivših saveznih zakona. Među ostalim to su i gore spomenuti Zakon o poduzećima i Zakon o društvenom kapitalu, zakoni na osnovi kojih je započela privatizacija. Međutim, ubrzo zatim, već 23. IV. 1991., donesen je Zakon o pretvorbi društvenih poduzeća Republike Hrvatske. Strategija privatizacije društvenih poduzeća u Hrvatskoj po novom Zakonu predstavljala je pretvorbu društvenog vlasništva (koje se najčešće smatra "ničijim i svačijim") u prepoznatljive oblike vlasništva do 30. VI. 1992., s time da se proces privatizacije, koji se nastavlja na pretvorbu, nastavi bez odgađanja nakon tog roka. U Elektroprojektu su nakon toga intenzivirane pripreme za pretvorbu poduzeća s namjerom da se sve obavi u zakonskom roku. Poslije se pokazalo da je taj rok više puta bio produživan.

Tzv. društvena poduzeća, do zakonskog roka pretvorbe, autonomno odabiru model i način pretvorbe, kao i sve radnje i poslove u svezi s pretvorbom. Elektroprojekt je odlukom Radničkog savjeta od 15. V. 1992. potvrdio prije donesenu odluku i odredio vlastitu transformaciju u dioničko društvo. Također je potvrđena već prije osnovana Komisija za organizaciju i provedbu postupka pretvorbe u sastavu: Tomislav Jančijev, Ivica Kostelac i Bernarda Glowatzky.

Transformation of Elektroprojekt into a Shareholder Company

The end of the 1980s saw the adoption of the first acts dealing with the problems of company privatisation in the existing system. Those acts were the Company Act and the Social Capital Act. Within Elektroprojekt, deliberations concerning privatisation began very early, primarily because the company had traditionally relied exclusively upon its own resources for its development. Indeed, it can be said that Elektroprojekt had been created through the know-how and labour of its own people, and it was therefore logical that they should be interested in becoming its co-owners. Consequently, on 10 October 1990, a decision was made at a session of the Workers' Council to begin preparations for the implementation of the project of transforming Elektroprojekt, a socially owned company, into a shareholder company. Initially, however, only certain of the preparatory activities were carried out, and the first survey was conducted among the employees.

Following the creation of the new Croatian State in 1991, some laws were adopted from the former federal laws, among others the above-mentioned Company Act and the Social Capital Act, i.e., the same ones that provided the basis for the commencement of privatisation. These were followed on 23 April 1991 by the Transformation Act for Socially Owned Companies in the Republic of Croatia. According to the new law the privatisation strategy for socially owned companies in Croatia constituted transformation of social ownership (which is most often viewed as "nobody's and anybody's") into identifiable forms of ownership by 30 June 1992, whereby the process of privatisation, which follows as a continuation of transformation, is to proceed without delay after the said date. In response, preparations for company transformation were intensified within Elektroprojekt with the aim of finalising everything within the legally stipulated period. It subsequently became apparent that the stated period had been extended several times over.

Up until the expiry of the legally stipulated period, so-called socially owned companies were entitled to inde-



Sva su poduzeća za provedbu restrukturiranja odnosno provedbu statusnih promjena bila obvezna tražiti suglasnost na namjeravanu pretvorbu od Agencije za restrukturiranje i razvoj. Elektroprojekt je takvu suglasnost dobio 23. VI. 1992. Agencija je izdala suglasnost na osnovi Zakona o pretvorbi društvenih poduzeća i Uputa za provedbu članka 11. Zakona o pretvorbi društvenih poduzeća. Podloga za dobivanje suglasnosti od Agencije bio je Elaborat o pretvorbi, u kojem je najvažniji dio procjena vrijednosti poduzeća, koju je Elektroprojekt obavio sam. Ukupno procijenjena vrijednost tzv. društvenoga kapitala utvrđena je u iznosu od 8,980.000 DEM koja se pretvara u osnovnu glavicu dioničkog društva i dijeli u 89.800 redovnih dionica. Svaka dionica ima nominalnu vrijednost od 100 DEM, odnosno 11.000 HRD na dan 26. V. 1992. kada je dokumentacija zaprimljena u Agenciji za restrukturiranje i razvoj. Time je dovršena I. faza pretvorbe.

Programom pretvorbe utvrđeno je da se nakon dobivanja suglasnosti Agencije provede II. faza pretvorbe, koja je obuhvaćala zaključivanje ugovora dioničara s Hrvatskim fondom za razvoj te kupnju dionica od tog Fonda. Prodaji dionica prethodilo je objavljivanje prethodnog poziva za kupnju dionica s popustom svim zaposlenicima, bivšim zaposlenicima i umirovljenicima Elektroprojekta kao i ostalim osobama koje su na to imale pravo po Zakonu. Pozivi na kupnju dionica objavljeni su na oglasnim pločama u samom Elektroprojektu i u dnevnom tisku. U razdoblju od 23. VI. do 10. VII. 1992. održani su zborovi radnika zaposlenih u Elektroprojektu i informativni sastanci za sve ostale zainteresirane, buduće kupce dionica Elektroprojekta. Prodaja je započela upisom dvaju krugova prodaje dionica i to: 10. VII. i 3. VIII. 1992. Na taj je način u dva kruga prodano 45.800 ili 51% dionica. Znači prodano je i 1% dionica bez popusta. Sukladno obvezi koju je propisivao Zakon o pretvorbi društvenih poduzeća, preostalih 49 % neprodanih dionica ustupljeno je Fondovima.

Usporedo s aktivnostima vezanim za ugovaranje kupnje dionica, Komisija je pripremala tekst Statuta novoga dioničkog društva. Nacrt Statuta upućen je na javnu raspravu koja je trajala od 14. do 18. IX. 1992. Prijedlozi izmjena i dopuna Statuta bili su razmatrani na proširenim sastancima Komisije za pretvorbu poduzeća. Usvojene izmjene i dopune ugrađene su u Statut čiji je konačni tekst upućen na usvajanje Osnivačkoj skupštini.

Osnivačka skupština održana je 24. IX. 1992. Tamo su doneseni Poslovnik o radu Skupštine i Statut, te su izabrani organi upravljanja dioničkog društva - Upravni i Nadzorni odbor, te predsjednik i potpredsjednik Skupštine. Na Skupštini je imenovan v.d. direktora

penderly select their model and method of transformation, as well as all the activities and operations related to transformation. On the basis of a decision reached by its Workers' Council on 15 May 1992, Elektroprojekt confirmed the decision already reached, opting for its own transformation into a shareholder company. Additionally confirmed was the Commission for organisation and implementation of the transformation procedure, also selected earlier, which comprised the following persons: Tomislav Jančijev, Ivica Kostelac, and Bernarda Glowatzky.

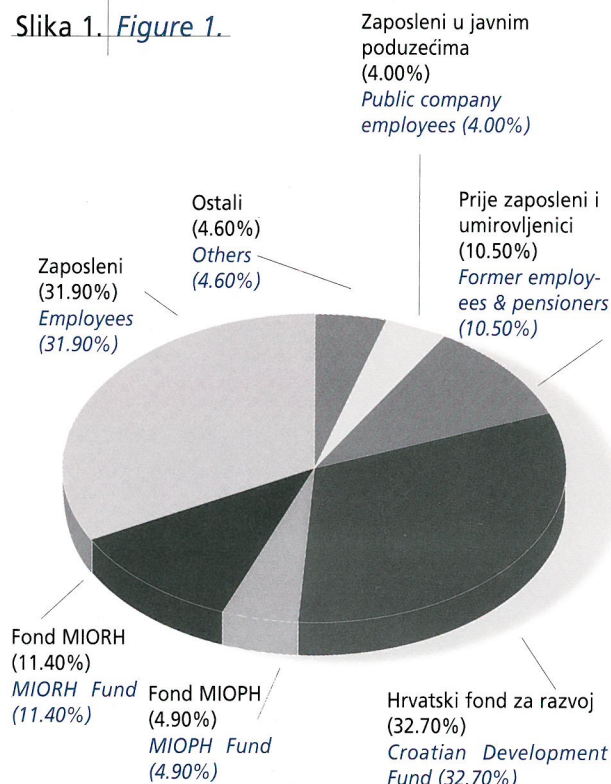
All those companies intending to embark upon transformation were obliged to seek approval for the implementation of restructuring, or rather for the implementation of statutory changes, from the Agency for Restructuring and Development. Elektroprojekt obtained such approval on 23 June 1992. The Agency issued its approval on the basis of the Act on Transformation of Socially Owned Companies, and Instructions for the Implementation of Article 11. of the Act on Transformation of Socially Owned Companies. The basis for such approval was provided by the Feasibility Study on Transformation, the most important part of which was the estimate of company value, which was undertaken by Elektroprojekt itself. The assessed overall value of the so-called social capital amounted to 8,980.000 DM, which was transformed into the capital stock of the shareholder company, and split into 89,800 ordinary shares. Each share had a nominal value of 100 DM, i.e., 11.000 HRD (Croatian dinars) as at 26 May 1992, when the documentation was accepted by the Agency for Restructuring and Development. Thus, Phase 1. of the transformation was completed.

According to the Transformation Programme, Phase 2. of transformation was to be implemented once approval had been obtained from the Agency. This involved a contract, to be concluded between the shareholders and the Croatian Fund for Development, and the subsequent purchase of shares from that Fund. The sale of shares was preceded by a publicised invitation to all employees, former employees and pensioners of Elektroprojekt, as well as to all other persons so entitled according to the Law, to purchase shares at reduced prices. This invitation was announced on information boards within Elektroprojekt itself, as well as in the daily press. In the period between 23 June and 10 July 1992, staff meetings were held for those employed in Elektroprojekt, as were informational meetings for all other parties interested in purchasing shares in Elektroprojekt. The sale began with the subscription of two rounds of share selling: on 10 July and 3 August 1992. The result was that 45.800 (51%) of shares were

Društva Kruno Galić. Za predsjednika Skupštine izabran je Davor Pavlović, a za potpredsjednika Vladimir Sečen. U Upravni odbor izabrani su: Tomislav Jančijev - predsjednik, Marijan Cerovac - potpredsjednik, te članovi Ivan Gojčeta, Danijel Čuljat, Smiljan Šimac, Borislav Franković i Velimir Pavlović. Smiljan Šimac i Velimir Pavlović izabrani su u Upravni odbor kao predstavnici Hrvatskoga fonda za razvoj i Mirovinskih fondova. U Nadzorni odbor izabrani su: Tomislav Crnčić, Ivo Milatić i Ivan Kostelac. U vrijeme održavanja Osnivačke skupštine struktura dioničara izgledala je kao na slici 1.

Nakon potpunog dovršenja postupka ustrojavanja Društva, u okviru kojega su doneseni svi potrebni dokumenti Društva, dana 17. XI. 1993. Upravni odbor imenovao je Krunu Galića direktorom Društva za četverogodišnje mandatno razdoblje.

Slika 1. Figure 1.



Slika 1: Struktura dioničara Elektroprojekta na Osnivačkoj skupštini

Nakon održane Osnivačke skupštine, Okružnome privrednom sudu u Zagrebu predan je zahtjev za upis promjene oblika organiziranja pretvorbom. Dana 12.X.1992. Sud je izdao rješenje i od toga dana Elektroprojekt počinje djelovati kao dioničko društvo. Osnovna je djelatnost Društva inženjering, što prema

sold in two rounds, which also meant that 1% of shares was also sold without discount. In line with the obligation stipulated by the Act on Transformation of Socially Owned Companies, the remaining 49% of shares were transferred to various Funds.

Concurrently with the activities related to share purchase negotiations, the Commission was also working on the text of a Statute for the new shareholder company. The draft of the Statute was offered for open discussion, which lasted from 14 to 18 September 1992. Tabled suggestions and amendments to the Statute were considered at expanded sessions of the Commission for Company Transformation. The adopted changes and amendments were included into the Statute, and its final version was forwarded to the Constituent Assembly for adoption.

The Constituent Assembly sat on 24 September 1992, when Standing Operating Procedures and the Statute were adopted; management bodies of the shareholder company were elected (the Management Board and the Supervisory Board), as well as the President and the Vice-President of the Assembly. At this Assembly, Kruno Galić was appointed Acting Director. Davor Pavlović was elected President of the Assembly, and Vladimir Sečen as his Vice-president. The following persons formed the Management Board: Tomislav Jančijev - President; Marijan Cerovac - Vice-president; Ivan Gojčeta, Danijel Čuljat, Smiljan Šimac, Borislav Franković and Velimir Pavlović - members. Smiljan Šimac and Velimir Pavlović were elected to the Management Board as representatives of the Croatian Fund for Development, and of the Pension Funds. Persons elected to the Supervisory Board were: Tomislav Crnčić, Ivo Milatić, and Ivan Kostelac. At the time of the Constituent Assembly, the shareholder structure was as shown in Figure 1.

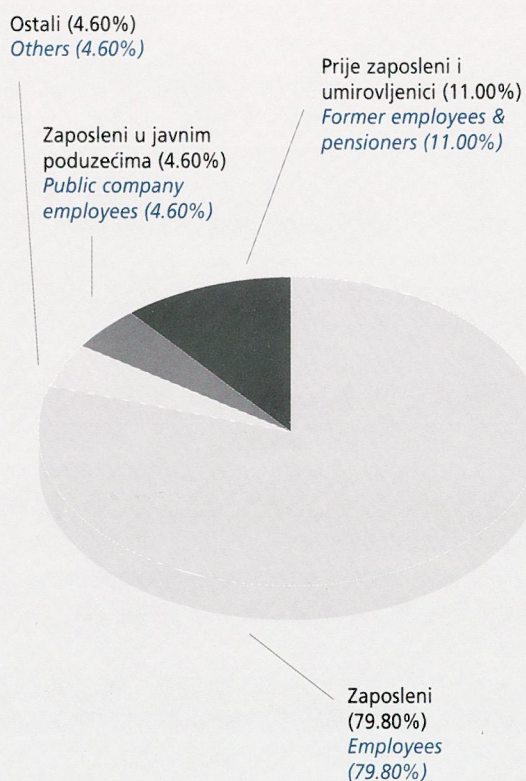
Following finalisation of the procedure of shareholder company organisation, within which all the necessary Company documents were adopted, on 17 November 1993 the Management Board appointed Kruno Galić as Company Director, with a four-year mandate.

Figure 1. Shareholder structure of Elektroprojekt at the time of the Constituent Assembly.

Subsequent to the Constituent Assembly a request was forwarded to the Regional Economic Court in Zagreb for the entry of changes in the format of company organisation resulting from the transformation procedure. The Court issued its ruling on 12 October 1992, from which date Elektroprojekt began functioning as a

tadašnjem tumačenju Registrarskog suda u sebi sadrži projektiranje, konzalting i inženjering u užem smislu. Nakon tako provedene registracije, u Društvu se pojavila inicijativa da se dioničarima omogući otkup i preostalih 49 % dionica koje su sukladno Zakonu ustupljene fondovima. Tijekom 1993. organiziran je otkup dionica od fondova i prodaja zaposlenicima s namjerom dovršenja procesa privatizacije Elektroprojekta. Obavljena su dva kruga prodaje dionica. U prvom krugu prodan je određeni broj dionica rukovodstvu tvrtke i zaposlenicima na svim važnijim radnim mjestima u Elektroprojektu. Kriterije za ovaj odabir dioničara kojima su ponuđene dionice u prvom krugu kao i ukupan broj dionica u pojedinom krugu odredio je Upravni odbor. U drugome krugu prodaje ponuđene su dionice svim zaposlenicima i prodane su svima onima koji su se prijavili za kupovinu. S dioničarima je ugovorena prodaja dionica na kredit uz mogućnost otplate rata iz dividende. Tako obavljenom kupnjom dionica, dioničari Elektroprojekta postali su suvlasnici Elektroprojekta u cijelosti pa se može reći da je Elektroprojekt 100 % u privatnom vlasništvu. Trenutačna struktura dioničara prikazana je na slici 2.

Slika 2. *Figure 2.*



Slika 2: Struktura dioničara Elektroprojekta u 1999. godini

Od 1.1.1995. u primjeni je Zakon o trgovačkim društvima. Sukladno odredbama tog Zakona trebalo je

shareholder company. The main activity of the Company is engineering which, according to the interpretation of the Registry Court, encompasses project design, consulting and engineering in the narrower sense of the word.

Once registration was accomplished, an initiative emerged whereby the shareholders would be enabled to purchase the remaining 49% of shares which, in line with the Act, transferred to various Funds. Consequently, in the course of 1993, the repurchase of stock from those Funds and the sale of the same to employees were organised, the aim being to finalise the process of privatisation of Elektroprojekt. Two rounds of share sales took place. In the first round, a certain number of shares was sold to the management of the company and to those employees occupying the more prominent positions within Elektroprojekt. The criteria for this particular selection of shareholders to be offered shares in the first round, as well as the total number of shares on offer in each round, were decided by the Management Board. In the second round, shares were offered to all employees, and were sold to all who had registered for purchase. It was arranged with the shareholders that they could buy the shares on a credit basis, with the possibility of the instalments being paid out of dividends. With the thus accomplished purchase of shares, Elektroprojekt shareholders became co-owners of Elektroprojekt in its entirety, and it can be said that Elektroprojekt is 100% privately owned. The current structure of shareholders is shown in Figure 2.

Figure 2. Elektroprojekt shareholder structure in 1999

The new Company Act came into force on 1 January 1995, which made it necessary to make certain changes, or to re-align Company by-laws, to the Company Act. Among other changes introduced by the new Company Act, was the organisation of a shareholder company, which had to be approved at a Shareholders Assembly. On 18 November 1995, an Assembly was held at which the new Statute was adopted and where the new management bodies were appointed. The President of the Assembly, Davor Pavlović, chaired the Assembly. In accordance with the new Company Act the Assembly abolished the Management Board as the management body, retaining only the Supervisory Board and the Management. The new Supervisory Board comprised the following persons: T. Jančijev - President, M. Cerovac - Vice-President, B. Franković, I. Gojčeta and S. Šimac - members. The Management constitutes one member - the General Director. At its first meeting the Supervisory Board re-appointed Kruno Galić as General Director. In the course of changing the

provesti promjene ili usklađenje općih akata sa Zakonom o trgovačkim društvima. Novim je zakonom promijenjen, među ostalim, ustroj dioničkog društva, što je moralo biti potvrđeno na Skupštini dioničara. Zbog toga je 18. XI. 1995. održana Skupština na kojoj je donesen novi Statut i imenovani su organi upravljanja. Skupštinu je vodio dotadašnji predsjednik Davor Pavlović. Ukinut je Upravni odbor kao organ upravljanja, tako da sukladno Zakonu o dioničkom društvu postoje samo Nadzorni odbor i Uprava. U novi Nadzorni odbor, odlukom Skupštine, izabrani su: T. Jančijev - predsjednik, M. Cerovac - potpredsjednik, te članovi B. Franković, I. Gojčeta i S. Šimac. Upravu čini jedan član - glavni direktor. Nadzorni je odbor na svojoj prvoj sjednici izabrao glavnog direktora - ponovo Krunu Galića. Prilikom promjene Statuta promijenjen je i naziv društva, tako da on sada glasi: Elektroprojekt, projektiranje, konzalting i inženjering d.d., jer je zaključeno da ovakva proširena definicija djelatnosti bolje opisuje poslove koje obavlja Elektroprojekt. Upis usklađenja sa Zakonom o trgovačkim društvima zatražen je od Registarskoga suda pri Trgovačkome sudu u Zagrebu, koji je odobrio novu registraciju Elektroprojekta i o tome 17. XI. 1997. izdao odgovarajuće rješenje. U takvu obliku Elektroprojekt djeluje i danas.

B. Glowatzky, T. Jančijev

company Statute, the name of the Company was also changed, and is now as follows: Elektroprojekt, Project Design, Consulting and Engineering d.d., since it was concluded that such an expanded definition provides a better description of the activities performed by Elektroprojekt. The entry of the required alignments with the new Company Act was requested from the Registration Court at the Economic Court in Zagreb, and on 17 November 1997 the Court issued Elektroprojekt with the appropriate Ruling. Up to the time of writing, Elektroprojekt has been functioning in the same manner.

**1. Osnivačka skupština
Elektroprojekta d.d.**

2. Glavni direktor i Nadzorni odbor, slijeva na desno:
I. Gojčeta, B. Franković,
K. Galić, T. Jančijev,
M. Cerovac, D. Petanjek

**1. Elektroprojekt Ltd. foundation
general meeting**

2. General Manager and Supervisory Board, from left to right:



Elektroprojekt - kadrovski i financijski

Elektroprojekt - Manpower and Finances

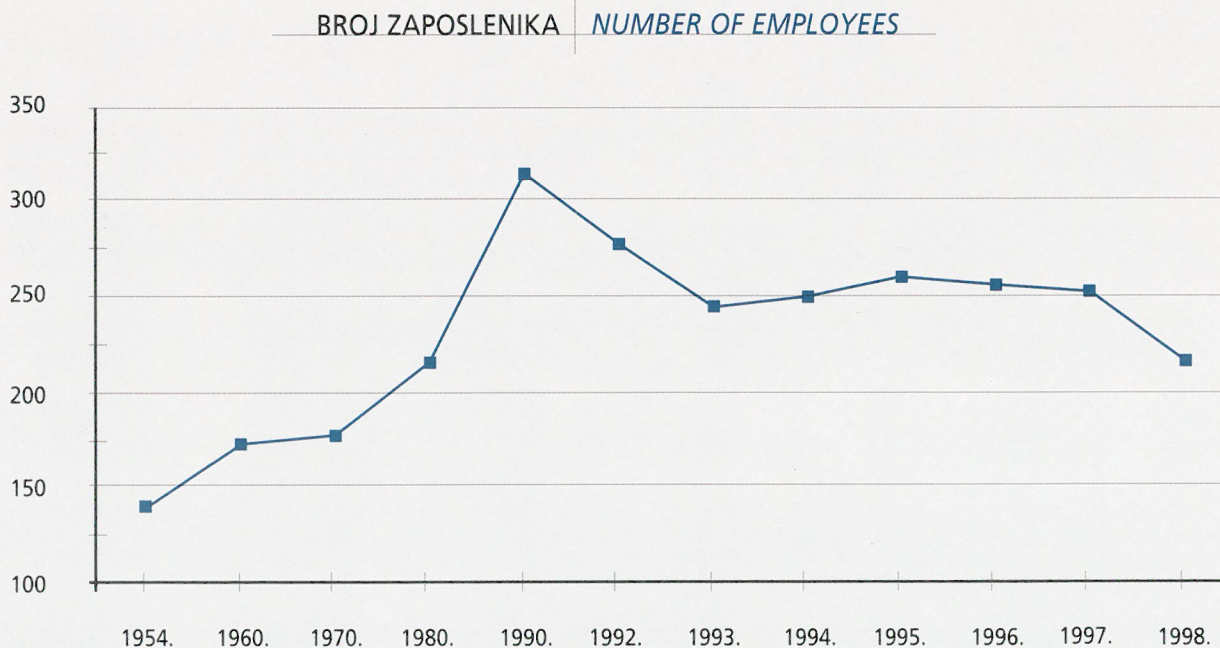
Elektroprojekt se za svojih pedeset godina postojanja razvijao i kadrovski i financijski. Za ilustraciju i jednog i drugog odabrano je za ovaj prikaz samo nekoliko podataka iz obilja koje je bilo na raspolaganju. Kao najvažniji odabrani su podaci o kretanju broja zaposlenika; te podaci o promjenama veličine prihoda, rashoda i dobiti tijekom proteklih godina. Za prvih četrdeset godina prikazani su podaci za svaku desetu godinu, dok je preostalo razdoblje prikazano podacima za svaku godinu.

Kretanje broja zaposlenika prikazano je na slici 1. U razdoblju do 1990. godine broj zaposlenika stalno je rastao, s time da je u šezdesetim godinama taj porast bio vrlo malen. Izrazit porast uočava se u osamdesetim godinama poznatim po dovršenju hidroenergetskih objekata te po intenzivnim pripremama za izgradnju velikih termoelektrana i nuklearnih objekata.

Slika 1: Pregled kretanja broja zaposlenika

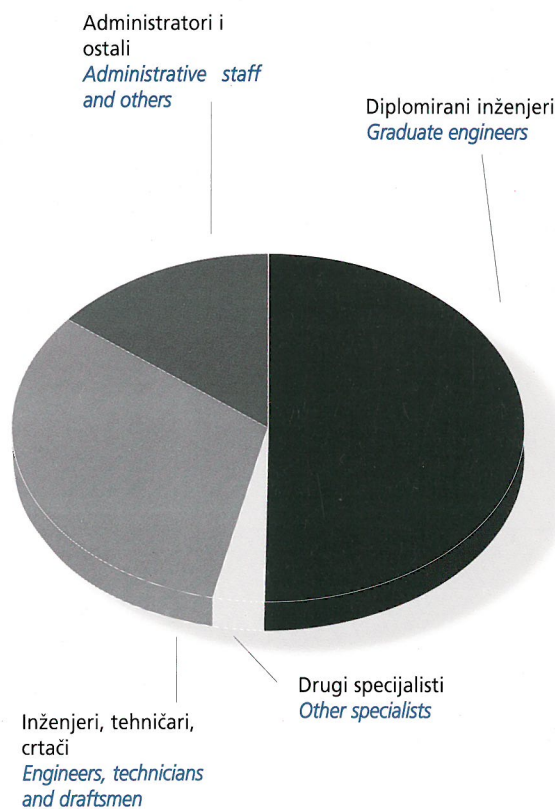
Throughout its 50 years of existence Elektroprojekt has experienced growth with regard to manpower, as well as financially. To illustrate both factors in this presentation we have chosen only a few data from the wealth at our disposal. Selected as most significant is data related to the trend in the number of employees, and data on the changes in the volume of income, expenditure and profits over the course of the years. For the first 40 years the chart provides information for every tenth year, whereas the remaining period is presented on an annual basis.

The trend in the number of employees is shown in Figure 1. In the period up until 1990 the number of employees grew continuously, with recorded growth being lowest in the 1960s. The most pronounced growth in manpower occurred during the 1980s, when a number of HPPs were in process of finalisation and when intensive preparatory works were being under-



Slika 1. Figure 1.

Nakon toga, u devedesetim godinama dolazi do smanjenja broja ljudi zbog sve manjih investicija u energetske objekte u zemlji, isto tako manjeg angažiranja u inozemstvu kao i ratnih zbivanja u Hrvatskoj. U isto vrijeme odlazi veći broj zaposlenih u mirovinu, a zbog smanjena obujma posla ne zapošljavaju se novi ljudi. Osnovna djelatnost Elektroprojekta jest pružanje različitih intelektualnih usluga investitorima ili izvođačima radova tijekom svih faza građenja i života nekog objekta. Temelj proizvodnih i tehničko-tehnoloških mogućnosti u tvrtki koja opstoji od davanja intelektualnih usluga čine, naravno, njegovi kadrovi. Za ilustraciju kadrovske strukture Elektroprojekta mogu poslužiti slike 2 i 3. Podaci na njima su iz godine u kojoj se slavi pedeseta obljetnica, ali ih se ipak može smatrati reprezentativnima za prikaz kadrovske strukture.



Slika 2. *Figure 2.*

Slika 2: Osnovni kadrovski sastav Elektroprojekta

Slika 3: Strukovne grupe diplomiranih inženjera Elektroprojekta

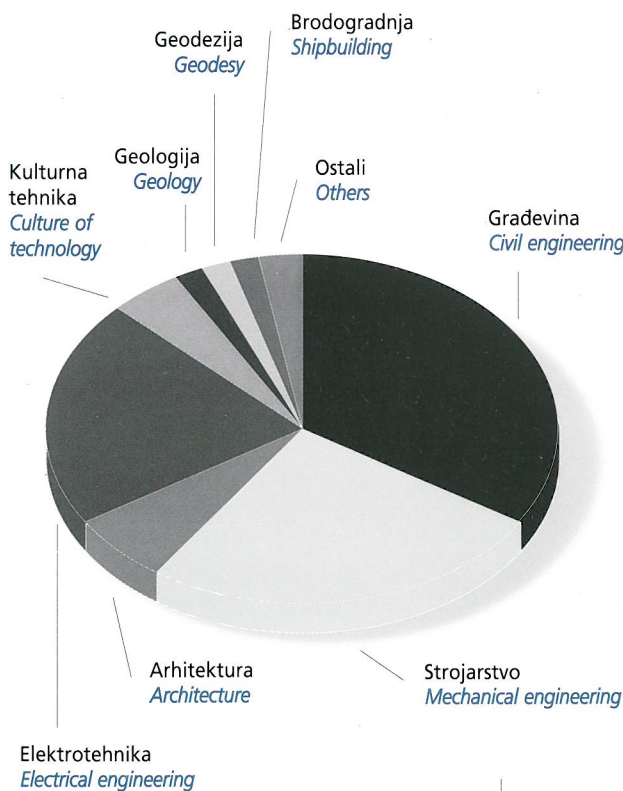
taken for the construction of large TPP and NPP facilities.

Figure 1. Review of trend in number of employees
In the 1990s the trend changed, with the number of employees being reduced due to continually decreasing investments in energy facilities at home, to reduced engagement in projects abroad and, of course, due to the war in Croatia. Concurrently, a significant number of employees reached retirement age, while the reduced scope of work dictated that no new staff be recruited.

The main activity of Elektroprojekt is to provide diverse forms of intellectual service to investors or contractors in all phases of the construction and life of a unit. Consequently, the foundation of the production and technical and technological opportunities in a company whose source of work is provision of intellectual services, is its people. The manpower structure of Elektroprojekt is presented in Figures 2. and 3. Although they depict the situation existing in the year in which we celebrate our fiftieth anniversary, they can nevertheless be taken as being representative in the presentation of the manpower structure.

Figure 2. Basic manpower structure of Elektroprojekt

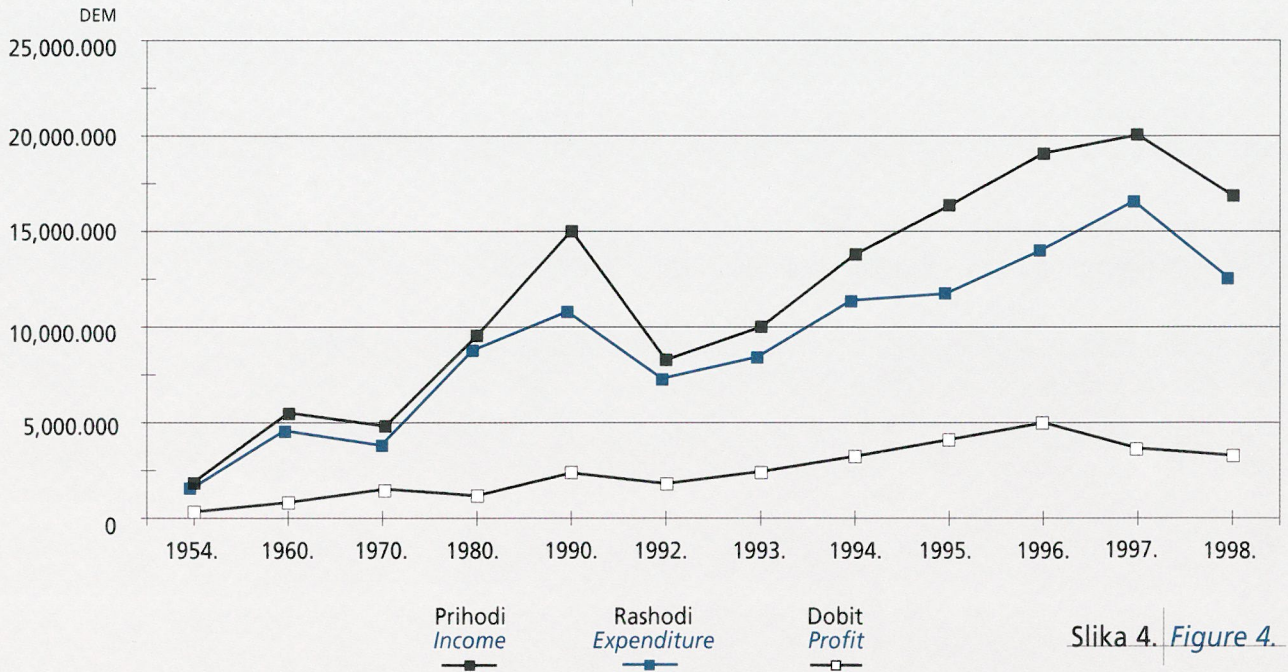
Figure 3. Professional groups of graduate engineers in Elektroprojekt



Slika 3. *Figure 3.*



IZNOS U MARKAMA | AMOUNT IN DEM



Slika 4. Figure 4.

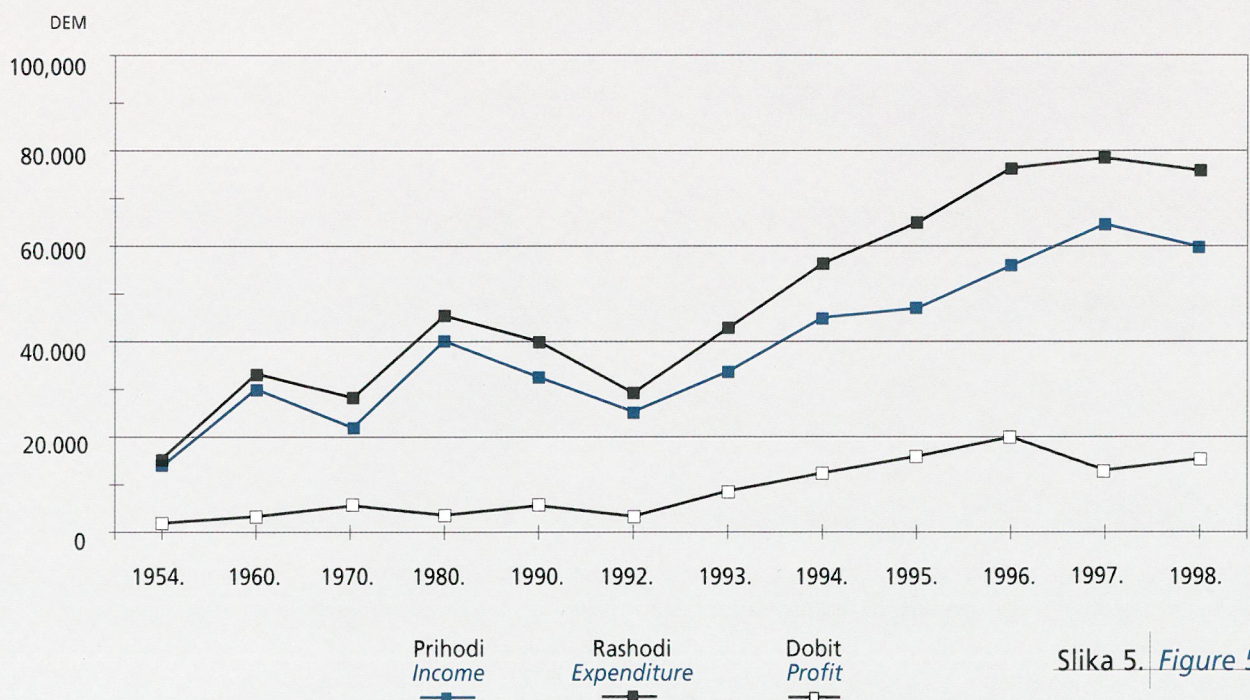
Slika 4: Pregled računa dobiti kroz godine

Osnovni financijski pokazatelji uspješnosti tvrtke prikazani su na slikama 4 i 5. Na njima su dani elementi računa dobiti, a to su naravno prihodi, rashodi i sama dobit. Zbog poznate činjenice da je na ovom prostoru bilo perioda s katastrofalnom inflacijom, knjigovodstveni

Figure 4. Review of profit account through years

The basic financial indicators of the company's successful operation are presented in Figures 4. and 5. These provide the elements of the profit account, which are: income, expenditure and profit. Due to the well-known fact that these parts of the world have experienced

IZNOS U MARKAMA PO ZAPOSLENOME | AMOUNT IN DEM PER EMPLOYEE



Slika 5. Figure 5.



podaci dani su u stabilnoj valuti, kakva je u to vrijeme bila njemačka marka. Ipak i takva računica daje samo kvalitativne podatke, budući da bi u slučaju takvih velikih inflacija podaci za račun dobiti trebali biti pretvoreni u stabilnu valutu na sam dan nastanka i unosa u račun dobiti. Zbog toga treba podatke iz šezdesetih godina, te s kraja osamdesetih uzimati s rezervom. Prikaz računa dobiti na slici 3 dobiven je dijeljenjem odgovarajućih podataka o prihodima, rashodima i dobiti s brojem zaposlenika u istoj godini.

Dobit ostvarena na radovima i uslugama projektiranja bilježi uglavnom stalni porast s izuzetkom u šezdesetim godinama, te na početku i kraju devedesetih godina. Razlozi za to sigurno su smanjenje investicijske izgradnje energetske objekata u zemlji, te znatno smanjenje inozemnih poslova, kao i početak ratnih zbivanja u Hrvatskoj od 1990. do 1992. godine.

Slika 5: Pregled računa dobiti po zaposlenome

Važno je napomenuti da su u razdoblju od 1993. do 1998. godine ostvareni najbolji rezultati dosad, te da je takva uspješnost ostvarena s približno istim brojem zaposlenih. U 1997. ostvaren je dosad najveći ukupni prihod od približno 20,000.000 DEM, kao i najveći prihod po zaposlenome od približno 80.000 DEM.

I. Gojčeta, T. Jančijev

Glavni direktor i Kolegij direktora od 1. siječnja 1999., slijeva na desno: N. Branković, A. Jelušić, Z. Mahmutović, J. Matijašević, K. Galić, D. Kuštrak, B. Mrakužić, D. Pavlović, I. Gojčeta	General Manager and Management Council from January 1, 1999, from left to right:
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periods of catastrophic inflation, the bookkeeping records are given in a stable currency, which the DEM was at that time. However, even such a form of calculation provides only qualitative data, since in the case of such high inflation, figures for the profit account should be converted into a stable currency on the very day they are created and entered into the profit account. Consequently, the figures from the period from the 1960s, and from the end of the 1980s, are to be taken with some caution. Figures shown in the presentation of the profit account in Figure 3. have been arrived at by dividing the relevant figure on income, expenditures and profit, by the number of employees in the same year.

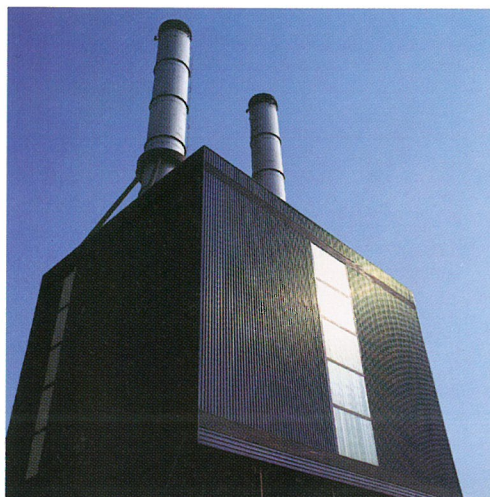
Profit realised through activities and services of project design records constant growth, the exception being in the 1960s and the beginning and end of the 1990s. The reasons for this are undoubtedly considerably reduced investments in construction of energy facilities at home, as well as the onset of war in Croatia from 1990 to 1992.

Figure 5. Review of profit account per employee

It needs to be pointed out that in the period from 1993 to 1998, Elektroprojekt realised its best ever results, and that these results were achieved with approximately the same number of employees. In 1997, the highest recorded total income, amounting to DEM 20,000.000 was realised, as was the highest income per employee, of about DEM 80.000.







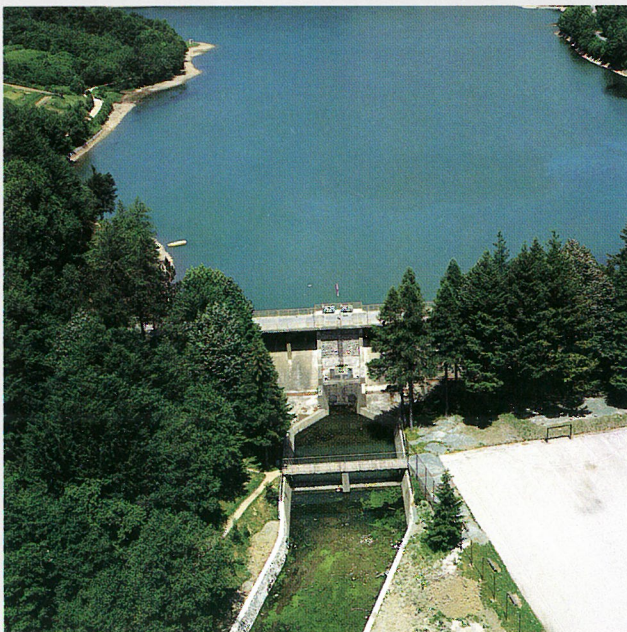
Rezultati rada Elektroprojekta	<i>References of Elektroprojekt</i>
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1.



4.



2.



5.



3.

1. HE Dale	1. <i>Dale Hydroelectric Power Plant</i>
2. Brana Bajer	2. <i>Bajer Dam</i>
3. HE Dubrava	3. <i>Dubrava Hydroelectric Power Plant</i>
4. HE Peruća	4. <i>Peruća Hydroelectric Power Plant</i>
5. Brana Letaj	5. <i>Letaj Dam</i>
6. CHE Lepenica	6. <i>Lepenica Pumped-Storage Power Plant</i>
7. HE Sklope	7. <i>Sklope Hydroelectric Power Plant</i>
8. Brana Prančevići	8. <i>Prančevići Dam</i>
9. Strojarnica HE Zakučac	9. <i>Zakučac Hydroelectric Power Plant Power House</i>
10. RHE Velebit	10. <i>Velebit Pumped-Storage Power Plant</i>
11. Brana Sidi Yacoub	11. <i>Sidi Yacoub Dam</i>

6.



9.



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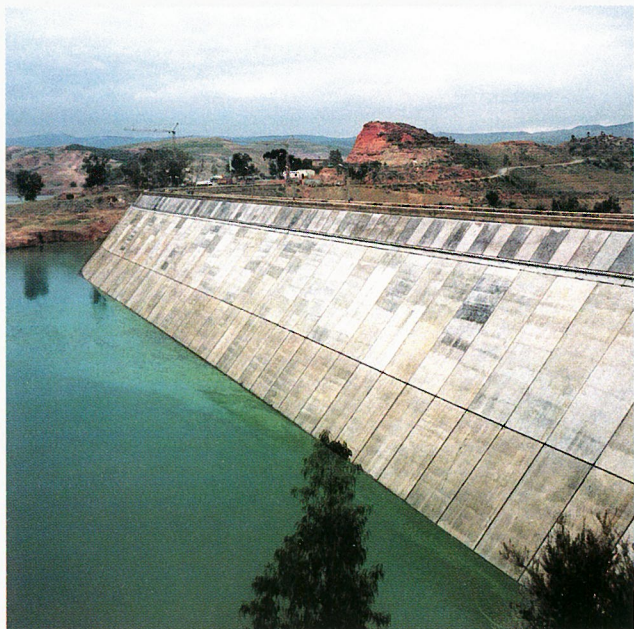


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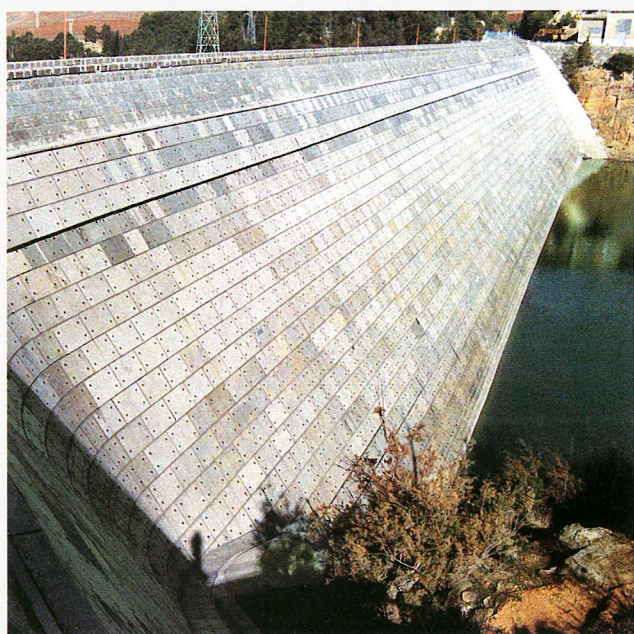




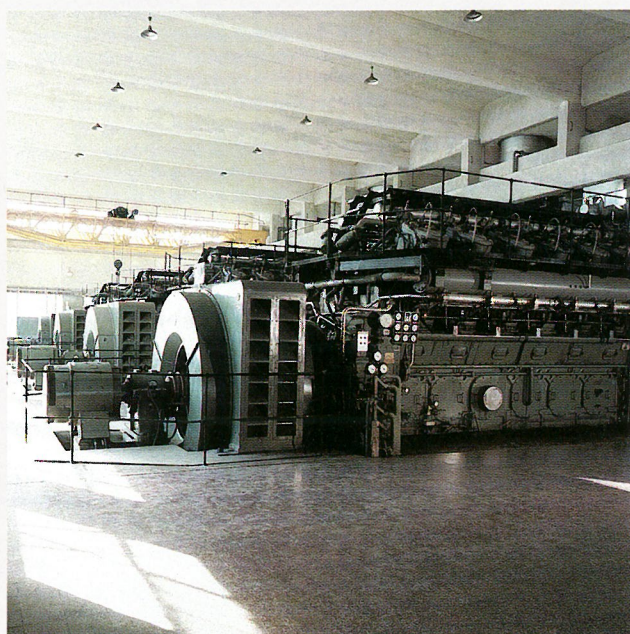
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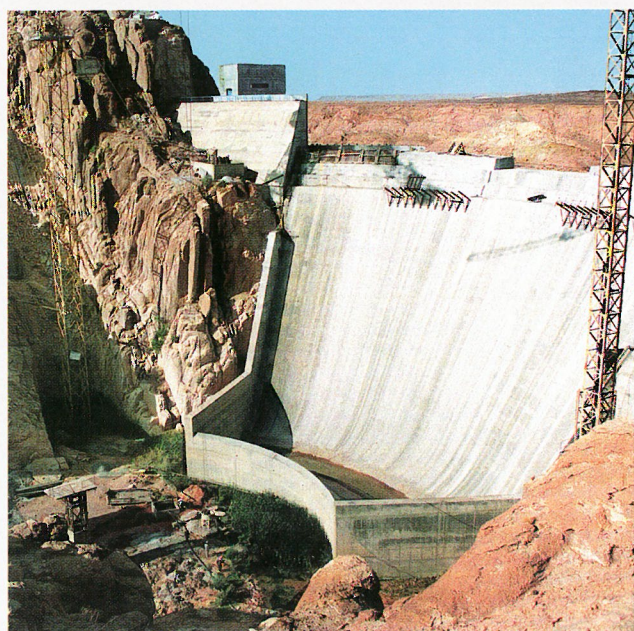
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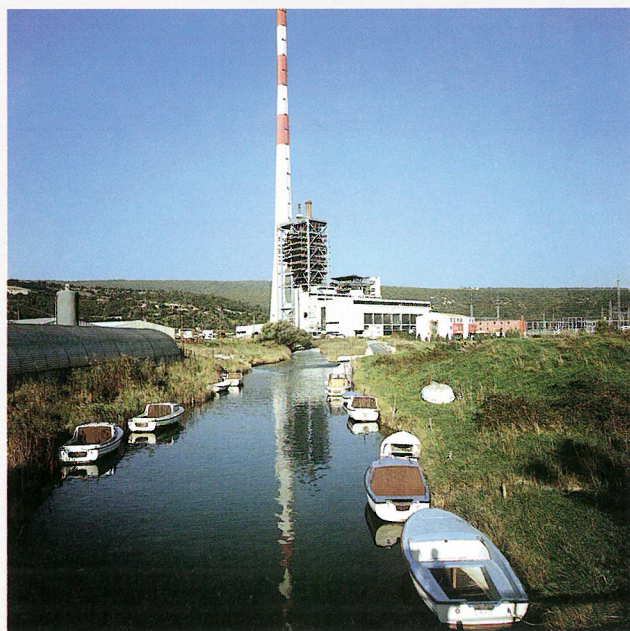
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20.



12. Sanacija brane Bouhanifia	12. <i>Bouhanifia Dam remediation</i>
13. Sanacija brane Ghrib	13. <i>Ghrib Dam remediation</i>
14. Izgradnja brane Brezina	14. <i>Brezina Dam construction</i>
15. Meliorirano područje Urumieh	15. <i>Urumieh land reclamation area</i>
16. DE Lesbos	16. <i>Lesbos Diesel Power Plant</i>
17. TE Plomin 1 i 2	17. <i>Plomin 1 and 2 Thermal Power Plant</i>
18. TE Sisak	18. <i>Sisak Thermal Power Plant</i>
19. PTE Jertovec	19. <i>Jertovec Gas-Turbine Power Plant</i>
20. NE Krško	20. <i>Krško Nuclear Power Plant</i>
21. TE-TO Osijek	21. <i>Osijek Gas-Turbine Power Plant</i>
22. TE Urinj	22. <i>Urinj Thermal Power Plant</i>



23.



26.



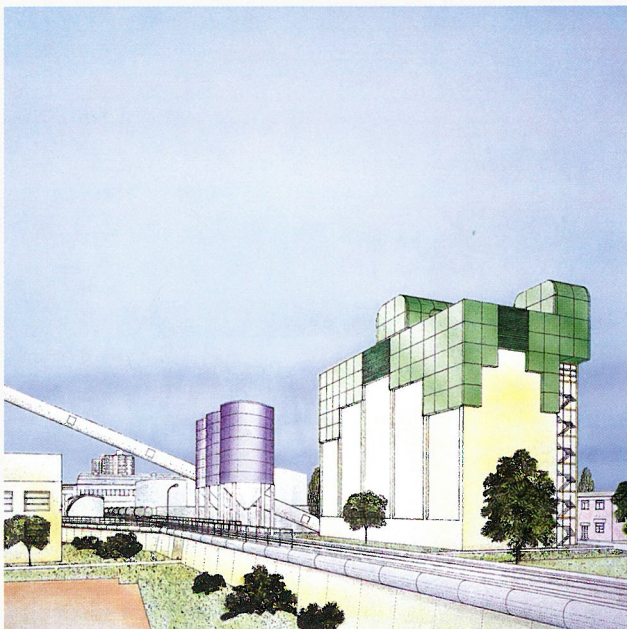
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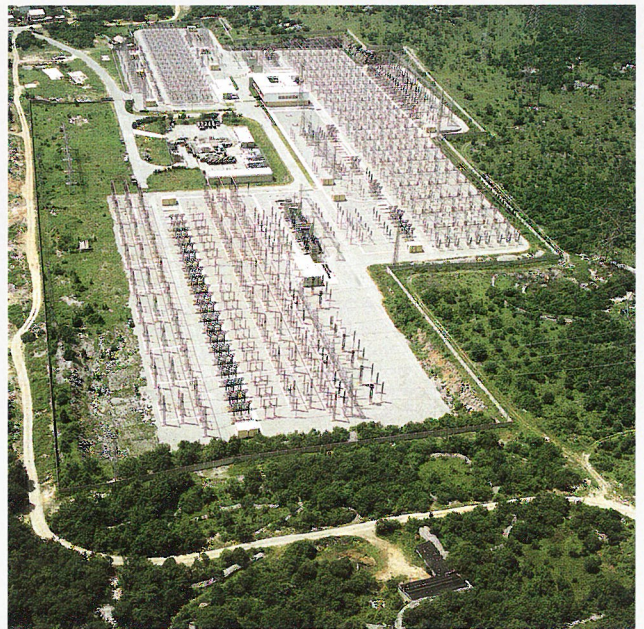
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|---|---|
| 23. PTE Dujmovača | 23. <i>Dujmovača Gas-Turbine PP</i> |
| 24. Grijanje staklenika u Kombinatoru Belišće | 24. <i>Belišće Agri-Business greenhouse heating</i> |
| 25. Projekt novog bloka u EL-TO Zagreb | 25. <i>Zagreb Cogeneration Plant new unit design</i> |
| 26. VT plinovod od Botinca do EL-TO Zagreb | 26. <i>Botinec - Zagreb cogeneration Plant HP gas line</i> |
| 27. TE Tuzla blok 3 - zamjena elektrofiltera | 27. <i>Tuzla Thermal PP, Unit 3, electrostatic precipitators replacement</i> |
| 28. TS Melina | 28. <i>Melina Switchyard</i> |
| 29. TS Ernestinovo | 29. <i>Ernestinovo Substation</i> |
| 30. TS Tumbri | 30. <i>Tumbri Substation</i> |
| 31. RP uz TS Tumbri | 31. <i>Tumbri Substation Switchyard</i> |
| 32. TS Rakitje | 32. <i>Rakitje Switchyard</i> |
| 33. KBC Rebro - Centar za radijacijsku medicinu i zaštitu | 33. <i>Rebro Clinical Hospital - Radiation Medicine and Protection Center</i> |



34.



37.



35.



38.



36.

34. Benzinska stanica OMV

35. Crpna stanica Ravne njive

36. Sanacija odlagališta

otpada Jakuševac

37. SDV Elektra Križ

38. Mikrovalne RR veze HEP

34. OMV gas station

*35. Ravne Njive Pump
Station*

*36. Jekuševac Dump Site
remediation*

*37. Elektra Križ Remote
Control System*

*38. HEP microwave radio
relay links*



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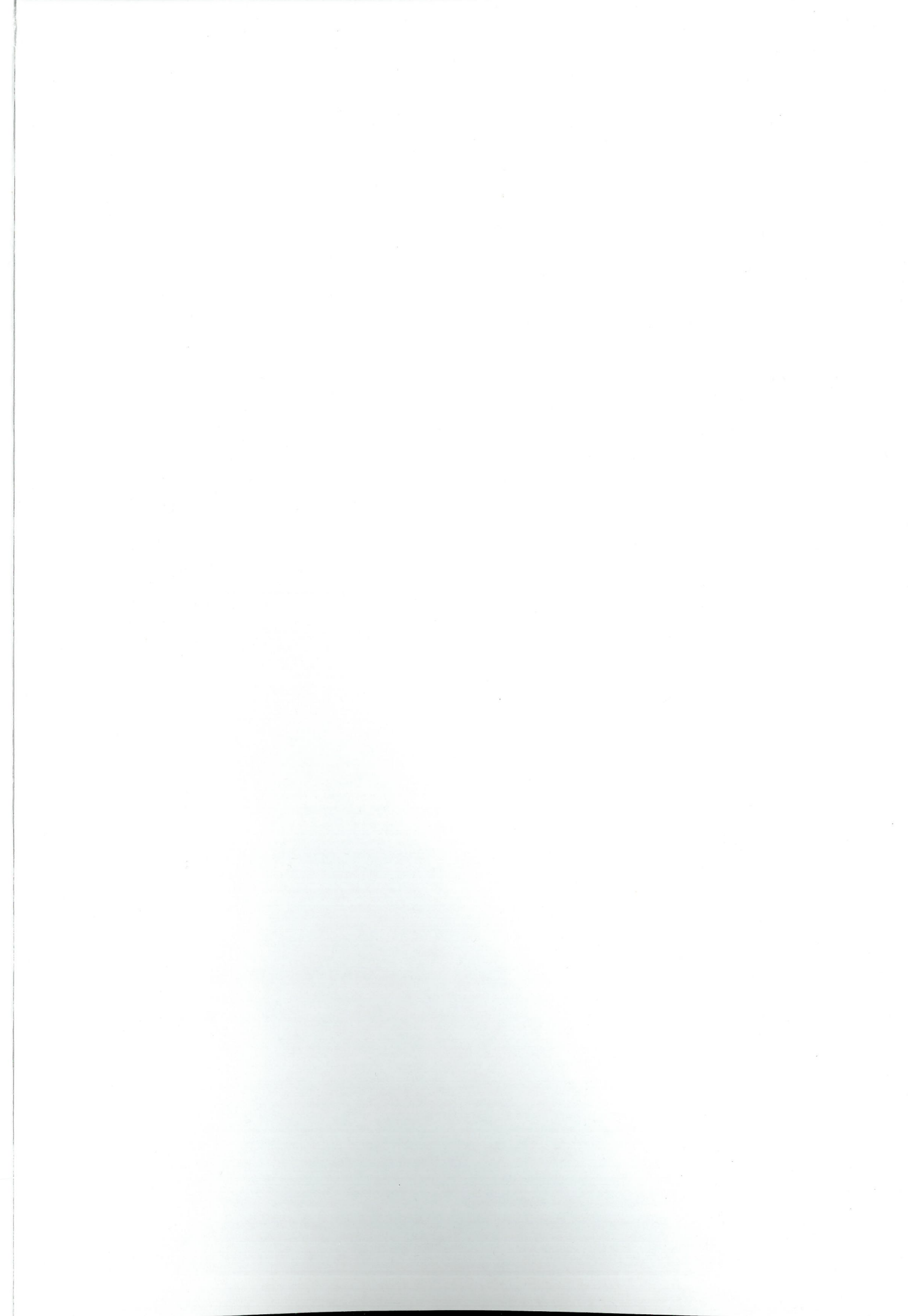
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