

News at SEVEN

VOLUME 7

NUMBER 3

OCTOBER 1999

ENERGY EFFICIENCY NEWS FROM THE CZECH REPUBLIC

Proposed Regulations for the Energy Management Law

Prior to the approval procedure of the Energy Management Law, prepared by the Ministry of Industry and Trade of the CR, related regulations will be elaborated. The Czech Energy Agency has selected a number of experts to participate in working teams. Their objective is to create draft regulations related to individual parts of the mentioned Law.

Parts of the Law connected with preparation of the regulations deal with:

- Assurance of energy efficiency during its production, distribution and consumption.
- Elaboration of a territorial development energy plan.
- Elaboration of energy audits.
- Energy labelling of appliances.

Work in groups started at the end of August and the results are expected by the end of November 1999 at the latest.

The entire Law has already been prepared in the paragraph wording and sent for inter-departmental comment proceedings. Topics dealt with in the Law have genuine importance and benefit in terms of future utilisation of energy resources. Some means the Law uses to achieve more efficient energy utilisation can be considered controversial. SEVEN compared the Czech Law with EU legislation and came to the conclusion that such directive laws on energy efficiency have not been introduced in any EU state. Therefore, the Law's destiny after its presentation to Parliament remains uncertain, even though, at the general level, the Law is in line with EU requirements.

Contact: Czech Energy Agency,
Vinohradská 8, 120 00 Praha 2,
Tel: +420-2-24217701,
E-mail: cea@ceacr.cz

Heat Supplies in Třeboň

During 1998 the media carried reports about the energy situation in the town of Třeboň. The main problem is the relatively high price of heat supplied through the central heat supply system and distributed by the firm Teplospol. Supplies for the Berta and Aurora Spas and heat supply for residential quarters and public buildings have, for the immediate future, become the priority of the town's energy system. Reduction of energy intensity, improvement of heat distribution and increase in production efficiency in all sources must fulfil economic, ecological and energy efficiency requirements set forth by the spa town due to the need to ensure environmental protection and emission reduction.

To date, the heating station in the Berta Spa has been completely reconstructed. With the support of the Czech Energy Agency and co-operation with the organisations SEVEN and K-Projekt Dačice, savings of gas consumption of roughly 30-50% have been achieved in comparison with the original solution. In this facility, 3x600 kW of heat capacity has been newly installed, the steam system replaced by a water system and a 22 kW cogeneration unit installed to secure production of electricity and hot utility water for supplies in the summer and winter seasons for the Berta Spa. Introduction of a regulation and control system will result in maximal reduction of generation and consumption of heat for the spa grounds, and the saved expenses can be used to implement further measures. On the basis of the achieved results, the Berta Spa management has decided to expand the originally installed

22 kW cogeneration unit by another unit with the same capacity which would, in addition to heat and electricity production, be used as a reserve source. The energy project for the Berta Spa also calculates with utilisation of waste heat of balneological waters from the operation technology. Reconstruction has gradually been completed and those interested will have the chance to inspect the entire system. However, in the spa town of Třeboň two problems remain to be solved: the first concerns the problem of heat supplies at a price acceptable to the Hliník residential quarter, the second is improvement of heat production, distribution and utilisation in the Aurora sanatorium.

In November 1998 the Municipal Office of Třeboň ordered an energy audit, with SEVEN being entrusted with its elaboration. This audit reacts to the situation concerning Třeboň's heat supplies, particularly in the Hliník residential quarter and the Aurora sanatorium. On the basis of the audit's results, final implementation is being prepared. The energy audit described the current status, determined the saving potential and recommended the most suitable solution variants after prior economic analysis. Before the end of 1998, property rights relations were resolved and the sanatorium became the property of the Municipal Office of Třeboň. The municipal government is aware of the importance of citizens' requirement that heat be as cheap as possible in the Hliník residential quarter and, at the same time, is determined to solve the energy problem of the Aurora sanatorium, which is also dominant

What's Inside

National Energy Efficiency Study – CZ.....	2
Conference on the Czech Energy Sector	2
Low-Energy Low-Cost Building.....	2
American Conference on Energy Efficiency.....	2
EEBW: 2000	3
Energy Saving Lighting in Czech Conditions	3
Seminars on Municipal Power Engineering II.....	3
Nymburk – A New Generation Energy Plan?	4
TEREZA Ecology Information Centre	4
EBRD Funds for Central and Eastern Europe.....	5
South Bohemian University Offers Non-traditional Subject	5
Natural Gas Prices Change	5
Yet Another Environmental Assessment of Energy Policy	5
Energy Efficiency Events	6

within the framework of the whole town. The sum total of financial outlays for individual measures obviously exceeds the current possibilities of the Třeboň Municipal Office, therefore, it is necessary to highlight the most important saving potential measures.

An independent category in energy savings is made up of redevelopment of individual sanatorium buildings, the swimming pool, and, eventually, buildings in the Hliník residential quarter, as well as adjustment of energy economy of public buildings and schools in the town's ownership, and other facilities. All these problems can be dealt with in the draft energy plan of the town of Třeboň which would definitively complete the proposed projects for sources of the distribution network and individual consumers, including measures in buildings and the energy control system in the town itself.

Třeboň has thus become one of the towns in which SEVEN has put into practice the conclusions of its conceptual and advisory services and helped to solve the town's energy problems.

Contact: Ing Jiří Neuirth, SEVEN,
České Budějovice branch,
Tel: +420-38-6350443,
E-mail: cesbud@cb.cesnet.cz

National Energy Efficiency Study – CZ

The National Energy Efficiency Study describes the main reasons behind the Czech economy's high level of energy intensity and the current negligible utilisation of renewable energy resources. On the basis of this, it identifies measures necessary for improving this situation and costs connected with their introduction. The result of the work is not only an extensive and detailed study, but also two specific action plans based on it. The energy efficiency action plan and the action plan for utilisation of renewable energy should serve the government as a basis for creation of energy efficiency policies and support of renewable energy resources.

The study was subsidised by the government of the Netherlands, the Ministry of Industry and Trade, the Ministry of the Environment and the World Bank. Alongside several Czech companies (SRCI CS, SEVEN, MARCH Consulting, RAEN and DHV CR), a Dutch team participated in the project (ECN, DHV AIB, SEO).

The National Energy Efficiency Study contains detailed information about energy saving potential and utilisation of renewable resources, barriers hindering realisation of this

potential and possibilities for surmounting them. On the basis of the analyses carried out, both high and low objectives have been determined for strategies with different levels of endeavour and costs. According to the high objective, by 2010 a 20% reduction of energy consumption in comparison with 1995 (the objective also includes the expected automatic reduction in energy consumption due to restructuring of the economy) and a 3.5% share of renewable energy resources in primary energy resources should be achieved. In accordance with the estimate, achieving the high objective in terms of savings would by 2010 require total investments in the volume of 123 billion CZK and, in the case of renewable resources, 26 billion CZK. At the same time, it concerns the sum of private and public investments, which should be economically returnable and, in addition, other environmental and social benefits can be expected.

During selection of suitable measures for achieving the set objectives, there was a wide spectrum of possibilities to choose from, including the use of system economic tools, as well as market, financial, informational and regulatory instruments and voluntary activities.

The system economic tools include, in particular, removal of all subsidies on energy prices and gradual incorporation of environmental damage, e.g. by means of energy taxes. Furthermore, also being considered is establishment of a schedule for supporting electricity from renewable resources, which could also function in the conditions of the liberalised electricity market. Here, the study favours using the "green heller" system, however, it also deems it necessary to examine other quota mechanisms based on the functioning of the market. In general, the emphasis was put on using market mechanisms and so-called softer tools; namely, support of auditors, elaboration of feasibility studies, information programmes and the like. More substantial financial support should be granted only in special cases, such as implementation of projects demonstrating application of new and untested technologies and processes. An instrument suitable for "almost" returnable energy efficiency projects and utilisation of renewable energy resources is subsidisation of interest from commercial financing.

Contact: Jana Szomolányiová, SEVEN
Miroslav Malý, SRCI CS, E-mail: maly@srci.cz

Conference on the Czech Energy Sector

On January 17–18, 2000 an international conference on the Czech energy sector will take place in Prague's Hilton Hotel. The event is being organised by the London-based company SMI Ltd.

Currently, the Czech economy is endeavouring to meet EU objectives in, among others, the energy sector. At the conference, the issue of key energy questions will be raised in connection with electricity and natural gas supplies, nuclear power engineering, and renewable energy resources. Items on the agenda will include energy policy, regulation of energy prices, privatisation and investment in the energy sector, legal aspects related to the CR's environment, coal as an alternative during acquisition of energy, the international energy market, infrastructure development, and municipal relationships in the energy sector.

Speeches will be given at the conference by top representatives of the Czech Ministry of Finance and the Ministry of Industry and Trade, representatives of the European Union, delegates from energy production and distribution companies, and investors in the energy sector.

Contact: SMI – Consumer Services,
London, Great Britain,
Tel: +44-171-252-2222,
Fax: +44-171-252-2272

Low-Energy Low-Cost Building

The Energy Efficiency Center SEVEN, with the support of the Charles University Environmental Centre, is implementing an UNDP/GEF-funded project concerning low-energy, low-cost building (see News at SEVEN, 1/99). The project is directed towards improving the energy efficiency of newly constructed residential buildings, proposal for implementation of low-energy low-cost residential buildings and dissemination of practical experience among the wide specialist and non-specialist public.

At present, the first demonstration residential building is being constructed in co-operation with the city of Sušice as the investor. Investment costs will be fully comparable to those of customary construction, however, the resulting energy demand will be 40 - 50% lower. The project providers have selected a unorthodox approach to the solution with, there being in addition to two solution provider teams, a multi-disciplinary team of independent

experts participating in the development of conceptual studies up to the final documentation for the building permit.

In addition to the construction of demonstration residential buildings, the other activities of the project are directed to the preparation of a list of available financial sources, verification of standards valid in this area, support of education, etc. In relation to these activities, in November a series of seminars will be held with the participation of domestic and foreign experts. Other activities are being prepared within the project and our readers will be informed about them.

To expand collaboration, we are looking for other partners, either possible investors (cities, towns) or experts interested in this issue. Important information about the project solution is regularly updated on SEVEN's Internet page (www.svn.cz).

Contact person: Petra Neuwirthová, SEVEN

American Conference on Energy Efficiency

One of the most important activities of the American Council for Energy Efficiency Economics (ACEEE) is the organisation of summer conferences dealing with energy saving in buildings (for information about the last conference - see News at SEVEN, 3/98 and 4/98). Between August 20 - August 25, 2000 the 11th conference, entitled "Efficiency and Sustainability" will be held, again at the Asilomar conference centre, near the Californian summer resort Monterey. The organisers invite

participants to send abstracts of their papers by October 15, 1999 at the latest. Conditions for sending of papers by Czech participants are available in a printed form from SEVEN.

Contact address: Rebecca Lunetta, ACEEE
Summer Study Office, Tel.: +1-302-292-7588, Fax: +1-302-292-3965, E-mail: rlunetta@erols.com,
Internet: <http://aceee.org>



EEBW: 2000

The date for the international conference and exhibition entitled EEBW 2000 (Energy Efficiency Business Week) has been set for October 17–19, 2000. At the present time, the general conception of the event and the wording of topics for discussion is being prepared.

During October a call for papers will be sent to individual sections of the conference programme. The main topics, which will be discussed at the conference include:

- Energy policy and liberalisation of energy markets.
- Financing of energy efficiency projects.
- Territorial energy planning.
- Energy audits.
- Technocracy versus economy.
- Energy efficient behaviour as the route to sustainable development.
- Traffic – a threat to the third millennium.
- Energy consumption in households and lighting.
- The future of cogeneration.
- Expectations connected with renewable energy resources.

Producers of energy efficient equipment, energy service companies, distribution and assembly firms, advisory and other firms and institutions dealing in energy efficiency which would like to present their products or services at this prestigious event can also write down the date in their diaries.

Contact: Martin Dašek, SEVEN

– vs –

Energy Saving Lighting in Czech Conditions

Recently, a European Union project within the SAVE Programme was completed, concerning market research into the use of energy saving lamps in the domestic sector. Within this project, co-operated the companies Stadtwerke Bremen, Germany, nv PEN Energiedrijf Noord-Holland, the Netherlands, and ELSAM/ELFOR and NESAs, Denmark.

At the present time, an international World Bank/GEF/IFC project is being prepared related to supporting extension of energy efficient lighting (not only in households) in the Czech Republic in co-operation with SEVEN.

Do you interested in the above mentioned projects? Would you like to hear opinions concerning problems of using energy saving lamps in Czech conditions directly from both domestic and foreign specialists, producers and

distributors of lighting sources and lamps, representatives of project designers, testing laboratories, consumer organisations, businesses and others?

If so, come along to the one-day seminar entitled "Ways to increase using of energy saving lamps in Czech households" to be held in Prague on October 21, 1999. The seminar has been organised by SEVEN in co-operation with DEFU from Denmark and WB/IFC from the USA.

Since the seminar's programme was still being prepared at press time of our News, the latest information is available from SEVEN's office or can be found on SEVEN's website: <http://www.svn.cz>.

Contact: Martin Dašek and Martina Růžičková, SEVEN



SEVEN, in co-operation with the Ukrainian branch of the American organisation Alliance to Save Energy, organised a study visit to Olomouc and Prague for 28 key decision-makers from the town of Lvov, Ukraine, accompanied by their colleagues from Poland and the USA. The programme was focused on the correct process during designing projects, experience with financing and technical implementation of energy efficiency projects, in particular, in the municipal sphere. SEVEN prepared for the guests an intensive training in the form of seminars and workshops, and also excursions to selected suppliers (the Třeboradice heating station, see the photograph) and to the Czech Energy Agency. The participants of the study fellowship, including the deputy mayor, the director of the heating station, the town's financial manager and other experts, were very active and lively discussed about various aspects of designing projects and their financing.

– jz –

Seminars on Municipal Power Engineering II

As was mentioned in the previous issue, SEVEN has organised in co-operation with the Czech Energy Agency a series of short seminars with intensive tuition to be held this autumn. They will focus on preparation and implementation of municipal energy projects. The first of these seminars is scheduled for October.

The seminar's structure has already been designed and will include the following topics:

- Energy policy and legislation in the Czech Republic and the European Union.
- Environmental legislation in relation to air pollution control.
- Preparation of energy projects.

- Bases of economic and financial analysis and relationships with municipal budgets.
- Funding of energy projects and financial sources.
- Risk management of energy projects.
- Energy auditing.
- Regional development energy plans.
- Examples and solutions of projects of the seminar's participants.

The first seminar will take place in the town of Hluboká nad Vltavou in the Hotel Štekl on Tuesday, October 26. Other seminars will follow in Hluboká nad Vltavou again, and in some other towns in South Bohemia during November and December.

Those interested in participation can apply to SEVEN's Prague or České Budějovice offices. Owing to the interactive method of transferring information during the seminar, the maximum number of participants in one seminar is limited to 15. The seminar has been prepared for decision-makers from town and local councils, not for technically oriented persons.

Further information:
Ing Jaroslav Maroušek, CSc.
Tel: +420–2–24212515, 24247552
E-mail: jaroslav.marousek@svn.cz

Nymburk – A New Generation Energy Plan?

The town of Nymburk has 15000 inhabitants, an industrial zone with a brewery, a malt-house, railway repair shops and several new enterprises. The historical centre and suburbs are fully gasified, housing estates are concentrated on the western fringe and supplied with heat from the local heating station. The urban land-use plan bears the date of 1995 and has already been elaborated in digital form. So, a typical example of a town with no energy problems. Therefore, the question arises: Was it really necessary to draw up an energy plan for this town? And what benefits has it brought for the town?

The authors of the plan were from the very beginning pleasantly surprised by both the interest and expertise of their partners at the municipal office. Excellent mutual communication and exchange of opinions allowed creation of an energy document that not only fulfils standard requirements of the Czech Energy Agency but, in addition, sensitively reacts to the town's immediate and future needs.

How is the document structured? It contains standard parts of an analytical character – description of the current situation of energy supplies, distribution networks, sources and consumers. The energy balance of the territory was drawn up with the help of programming equipment developed in SEVEN. The area of the town was divided into 15 districts, each of them being evaluated separately. The energy balance was tailored both for the present status and the plan period up to 2010. Here, it covered general development trends in population growth,

energy savings in apartment houses, development trends in industrial production and services and, last but not least, the urban land-use plan and conceptions about its implementation. The energy balance output is represented by graphical output in a digital map form. Ideas about further development of network energy media were provided by their distributors themselves. Designers in individual districts carried out multicriteria evaluation of suitable supplies of particular types of energy in the future period. This resulted in recommendations for the town council.

Thanks to these mentioned parts, the work can be classified as a good, professionally well-designed energy plan. However, the solution to particular problems of the town can be considered an exceptionally high-quality part of the work. It concerned elaboration of a case study about whether it pays off to disconnect a housing estate's prefabricated block of flats from the central heat supply system and build its own gas heating station. Partners at the municipal office also selected buildings in the town's ownership – a school, an arts centre and a theatre which are heated from one heating plant. The analysis, based on measurement, confirmed on the spot the possibility of achieving financial savings. As a source for financing, it recommended, from several possibilities, using the town's own means. The authors paid great attention to the possibility of implementing the draft energy plan in practice. The method of formulating directives of urban plans does not always prove successful. Therefore, they prepared a proposal for a communication campaign,

which will address both citizens and entrepreneurs, explain the principles of the town's energy policy and try to create the atmosphere of mutual trust. Part of the campaign is also a manual for builders of family houses, containing such advice as "what in particular to pay attention to". At the same time, a list of financial sources for energy efficient projects is available from the building office, as well as the handbook "Energy Savings in Households". The final work on the Nymburk energy plan was the proposal for interconnection of the two largest heat sources in the town – the residential quarter's black-oil district heating station and the coal industrial plant. The incentive came from the entrepreneurial sector and in the document the town acquired the basic technical and, especially, legal analysis of the approach to the issue – both in terms of protection of inhabitants against possible monopolisation of heat prices and in terms of reduction of the town's finances allocated for the district heating station and the heat distribution network.

The energy plan was completed by SEVEN in 1999 in co-operation with the Prague-based company DEAR.

Contact: Vlastimil Janda, Municipal office,
Palackého 499, Nymburk,
Tel: +420-325-512111
Ladislav Tintěra, SEVEN,
E-mail: ladislav.tintera@svn.cz
Květoslava Bučinová, DEAR s.r.o.,
Praha 8, Tel: +420-2-683 5706,
E-mail: bucinova@dear.cz

– ti –

TEREZA Ecology Information Centre

In early September – at precisely 9:09 on the magical 9.9.1999 – the doors of a reconstructed house in Haštalská Street in Prague's Old Town were gloriously flung open. At that moment, the non-governmental organisation Tereza opened there its new educational ecology information centre. Its

name is more than emblematic – Labyrinth of the World and Paradise of the Heart (derived from the title of a book by the Czech medieval philosopher and teacher Jan Amos Komenský).

The four storeys of the newly reconstructed building are a labyrinth of staircases, narrow corridors and clubrooms. In the morning, it will serve mainly for children. They can choose from one of the many circles of interest. Also prepared are presentations for primary schools and other mass visits. Another activity is programmes for adults – lecture and discussion evenings. In the house there is also an educational and information centre, a small shop, an Internet tearoom and a base for operation of the civil association. The spacious attic set aside for presentation purposes deserves special attention.

The building was rented to Tereza by the District of Prague 1 at a symbolic price – one Czech crown a year. The facility, which was originally a medieval house for the urban poor, was reconstructed with the participation of the District Office of Prague 1, the State Environmental Fund of the CR, the Ministry of

Education, the Ministry of the Environment and a number of sponsors. The value of the work exceeds the sum of CZK 10 million. In the interior spaces, the sensitive building solution and energy efficient technologies are in a harmony with the perfectly processed natural materials used for the furnishing.

For several years, Tereza and SEVEN have been working together on an international energy efficiency project, ENERGY, co-ordinated from Norway with schoolchildren from several European countries taking part. For secondary school students, TEREZA co-ordinates the Czech part of the global project of ecological observation – the GLOBE project. In recognition of its co-operation so far, SEVEN was granted a symbolic key to the house gates.

Contact: TEREZA, Civil Association,
Haštalská 17, Praha 1,
E-mail: jitka.duskova@terezango.cz
Ladislav Tintěra, SEVEN
E-mail: ladislav.tintera@svn.cz

– ti –



EBRD Funds for Central and Eastern Europe

Within the framework of further support for energy efficiency in Central and Eastern Europe, the European Bank for Reconstruction and Development (EBRD) has taken steps towards establishing a fund to support development of energy efficiency enterprise. The EBRD has selected a Dutch-Hungarian consortium founded by the Agency for Energy and the Environment (NOVEM), the Netherlands, whose aim is to ensure technical support for the fund's management.

The Energy Efficiency Equity Fund should become a closed fund for minority support of companies and projects striving to reduce energy consumption in Central Europe and the former Soviet Union. The average energy intensity of economies in these regions is from two to seven times higher than in OECD countries. The EBRD's experience has revealed that relatively small

investments can yield energy savings amounting to as much as 70%.

The period of the fund's activity is expected to be seven years, with the possibility of prolongation. The total volume of financial means should reach EURO 100 million, with the initial transfer of EURO 50 million. The fund will be used to finance companies and projects with the aim of supporting:

- Energy Service Companies (ESCOs) through minority capital participation in individual strong local companies.
- Independent investment in final energy consumers in industry through proportionate financing of large energy efficiency industrial projects.
- Firms operating sources of central heat supplies through co-financing projects reducing overheating, preventing heat losses and increasing boilers' efficiency.

- Other investment opportunities, for example, through a factoring company which would provide a secondary market for EPC.

Within energy efficiency projects in Central Europe and Russia, EBRD has already allocated a sum exceeding ECU 300 million. At the present time, NOVEM is seeking out the above-mentioned projects and companies in the same region with emphasis on Hungary, Poland, the Czech Republic and the Baltic states. The payback period of invested means should be from one to five years. The size of projects should range from EURO 3 to 10 million.

Contact: Eppe Luken, NOVEM, P.O.
Box 8242, 3503 RE Utrecht,
The Netherlands,
Tel: +31-30-2393427,
Fax: +31-30-2393702,
E-mail: e.luken@novem.nl

— vs —

South Bohemian University Offers Non-traditional Subject



The Faculty of Biology of the South Bohemian University in České Budějovice offers students a master's degree with specialisation in "Applied Ecology", which includes courses in Environmental Legislation, Environmental Impact Assessment, Environmental Technologies etc. Since the Faculty of Biology's main focus is narrowly specialised work, usually, some important institutions are asked to guarantee the seminars' quality over the entire tuition term, including assurance of lecturers, preparation and assessment of seminar work topics.

In the last school year, SEVEN joined the ranks of the guarantors, especially through its České Budějovice branch. The overarching theme of the Seminar on Applied Ecology in the 1998/1999 summer term was "Power Engineering and Air Quality". SEVEN played its role admirably, mainly thanks to the interest and enthusiasm shown by Jiří Neuwirth, head of SEVEN's České Budějovice branch, as well as the effort and organisational work provided by Michael ten Donkelaar. SEVEN arranged a total of seven lectures: three of them given by its own employees (Ir. ten Donkelaar, Ing. Zeman, Ing. Neuwirth) and four with the assistance of other institutions. Among others, it was possible to attend lectures by a representative of the organisation Czech Mothers, or Dr Rynda from the Charles University Environment Centre. Within the framework of co-operation, SEVEN also intermediated a student excursion to the České Budějovice heating station.

This is exactly the right route to "co-operation between universities and practice", so that students and employees stop complaining that universities offer them a lot of useless theory, and non-academic institutions also understand that they are necessary in Czech university school system. Details about the Faculty of Biology can be found on: <http://www.bf.jcu.cz>, details about the Seminar on Applied Ecology on: <http://home.zf.jcu.cz/tlchy>.

Contact persons:
Richard Tichý,
Jihočeská univerzita v Českých
Budějovicích, Biologická fakulta,
Tel: +420-38-7775651,
E-mail: tichy@dale.uek.cas.cz
Michael ten Donkelaar, SEVEN

—mtd —

Natural Gas Prices Change

Decree of the Ministry of Finance No. 010/99 of August 5, 1999, changing the list of goods with regulated prices, **reduces** the maximum price of gas supplied by the Transgas state company to individual distribution firms from 3.30 CZK/m³ to 3.21 CZK/m³ plus fixed payment, and prices at which distribution companies supply gas to other consumers (with the exception of households). The decree came into force on September 1, 1999.

Unlike in the previous adjustment, prices of natural gas from individual distribution companies are graded in three groups according to the amount of natural gas consumed: low consumption (0-60 thousand m³), medium consumption (60-400 thousand m³) and high consumption (above 400 thousand m³). This broader spectrum allows a fairer gradation of gas prices for individual consumer groups, better statistical monitoring

of these consumer groups, and also provides better information on earnings distribution companies acquire from the given consumer groups. The last item of data corresponds to the declaration of natural gas prices usual in advanced countries for IEA statistics from suppliers' earnings.

Contact: Marie Havlíčková, SEVEN

Yet Another Environmental Assessment of Energy Policy

The Ministry of Industry and Trade has called for (after announcement of the results of a tender) elaboration of a new environmental assessment of the Czech Republic's energy policy.

Orientation dates of individual stages are the following:

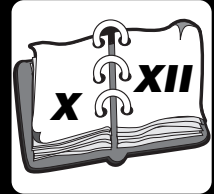
- Making public of the draft energy policy October 1, 1999
- Final deadline for application of comments from the public October 29, 1999
- Submission of the draft, modified according to the comments November 15, 1999
- Standpoint of the Ministry of the Environment December 15, 1999

- Presentation to the government for discussion on December 1999

Contact:
Ing Jaroslav Bartoš, head of the energy policy department, Ministry of Industry and Trade, Prague, Tel: 02-24853272,
Fax: 02-24852428

ENERGY EFFICIENCY EVENTS IN AND ABOUT CENTRAL AND EASTERN EUROPE

October 99 - December 99



PREPARATION OF HOT DOMESTIC WATER

Seminar on the theme "hot domestic water"
Novotného lávka, Prague,
Czech Republic, October 6, 1999
Contact: Společnost pro techniku prostředí, Prague
Tel: +420-2-21082353,
Fax: +420-2-21082201
E-mail: stp_set@mbox.vol.cz

CONEX + HIGH TECH

International exhibition of building techniques and technology of construction materials and exhibition of consumer electronics, electrical and household appliances Nitra, Slovakia, October 6 - 9, 1999
Contact:
Agrokomplex - Výstavnictvo, Nitra
Tel: +421-87-572301, 531129,
Fax: +421-87-35983,
<http://www.agrokomplex.sk>

ELECTRO

Exhibition of electronics, electro-technology and household appliances
Výstaviště - Pilsen, Czech Republic,
October 7 - 9, 1999
Contact: Exposale s.r.o., Prague
Tel: +420-2-67995632,
Fax: +420-2-67995634,
E-mail: Praha@Exposale.cz

RACIO-EKO-THERM

6th annual exhibition of rational fuel and energy consumption
Dům kultury Inwest - Pilsen, Czech Republic,
October 7 - 10, 1999
Contact: Kastor Plus s.r.o., Pilsen
Tel: +420-19-7237475,
Fax: +420-19-7236875,
E-mail: kastor@kastor.cz

ELEKTRA

Trade fair of industrial electro-technology and consumer electronics
Výstaviště Flora - Olomouc, Czech Republic,
October 13 - 15, 1999
Contact: Omnis Expo s.r.o., Olomouc
Tel: +420-68-5516155,
Fax: +420-68-5232097,
E-mail: omnis@omnis.cz, <http://www.vvv.cz>

NISAINVEST '99

5th annual investment opportunities trade fair
Výstaviště Liberec, October 14 - 16, 1999
Contact: Liberecké výstavní trhy a.s.,
Masarykova 24, Liberec
Tel: +420-48-2710503, 2710511, 5103109,
Fax: +420-48-2710293

INDUSTRIAL POWER ENGINEER

2nd intensive (re)qualification course
Říčany u Prahy,
October 18 - November 8, 1999
Contact: Asociace energetických manažerů,
Partyzánská 7, Prague 7
Tel/Fax.: +420-2-66753531,
<http://www.vol.cz/aem1/kurs.htm>

FINANCING OF BUILDING INSULATION AND ENERGY SAVING MEASURES

Seminar on the advantageous method of financing insulation of buildings and organisational and technical energy efficiency measures - EPC method
Poradenské a vzdělávací centrum, Ostrava, Czech Republic, October 19, 1999
Contact: ENERGO-STEEL s.r.o., Ostrava
Tel: +420-69-6911318, Fax: +420-69-6918323,
E-mail: energo@energo.cz

ENVI BRNO

International trade fair on creation and protection of the environment
BVV Brno, Czech Republic,
October 19 - 22, 1999
Contact:
Brněnské veletrhy a výstavy a.s., Brno
Tel: +420-5-41153351, Fax: +420-5-41152992,
E-mail: siwewin@bv.cz

ELO SYS

International trade fair of electro-technology, electronics and energy
Trenčín, Slovakia, October 19 - 22, 1999
Contact: Výstaviško TMM a.s., Trenčín
Tel: +421-831-435600, Fax: +421-831-435600,
E-mail: tmm@psg.sk, <http://www.elosys.sk>

WAYS TO INCREASE USING OF ENERGY SAVING LAMPS IN CZECH HOUSEHOLDS

Seminar on energy saving lamps and conditions of their dissemination in Czech Republic
Prague, Czech Republic, October 21, 1999
Contact: SEVEN, Prague
Tel.: +420-2-24252115,
Fax: +420-2-24247552, E-mail: seven@svn.cz

FOR HABITAT PLZEŇ

4th annual housing and household services exhibition
Výstaviště Pilsen, Czech Republic,
October 21 - 24, 1999
Contact: ABF a.s., Prague
Tel: +420-2-22891111, Fax: +420-2-22891198,
E-mail: veletrhy@abf.cz, <http://www.abf.cz>

MUNICIPAL ENERGY

Seminar on decision-making during solution to problems of the municipal energy sector
Hotel Štekl - Hluboká nad Vltavou, Czech Republic, October 26, 1999
Contact: SEVEN, Prague
(České Budějovice)
Tel: +420-2-24-247552 (+420-38-6350443),
E-mail: seven@svn.cz
(cesbud@cb.cesnet.cz)

HEATING BY LIQUID FUELS

Seminar on the theme "heating by liquid fuels"
Novotného lávka, Prague, Czech Republic,
October 26, 1999
Contact:
Společnost pro techniku prostředí, Prague
Tel: +420-2-21082353,
Fax: +420-2-21082201
E-mail: stp_set@mbox.vol.cz

AQUA - THERM PRAHA

6th international heating, ventilation, air-conditioning, sanitation and environmental technology trade fair
Výstaviště Prague 7,
November 23 - 27, 1999
Contact: Progres Partners Advertising, s.r.o.,
Opletalova 55, Prague 1
Tel: +420-2-24234274,
Fax.: +420-2-24218312, 5033

GAS DAYS 99

Výstaviště: Kongresové centrum ALDIS,
Hradec Králové, November 23 - 25, 1999
Contact: Aldis, a.s.,
Eliščino nábřeží 375, Hradec Králové
Tel: +420-49-5052242,
Fax.: +420-49-618237

ELEKTROTECHNIKA '99

6th international electro-technology trade fair
Dům kultury Vítkovice, a.s., Ostrava,
November 23 - 25, 1999
Contact: BAEL - veletrhy a výstavy,
Korunní 32, Ostrava
Tel/Fax.: +420-69-6625421, 6634738,
E-mail: bael@bael.cz, <http://www.bael.cz>