

### Global Transition towards the Clean, Sustainable Energy Age

*[Swiss National Council endorses ISEO motion unanimously and passed postulate to the Federal Executive](#)  
[ISEO influences many international discussions about mineral resource conservation by renewable energy!](#)*

The international energy conference activities in 2004/2005 are listed in the ISEO web portal [www.uniseo.org](http://www.uniseo.org) under the button > **News and Events**. Over 100 international conferences and thousands of national events related to the sustainable energy activities of ISEO are planned on energy, environment, climate, health and nature protection all over the world. Here are reports from some of the significant events.

#### 19 – 21 January 2004, European Conference for Renewable Energy in Berlin



**EREC Conference, Berlin.** From top left: Environment Minister Jürgen Trittin; Martina Sumenjak with Minister Trittin; ISEO Executive Secretary Grob, and with Marieàngels Pérez Latorre, European Commission; Mechtild Rothe, European Parliament; Panel Discussion; Coffe Break; Prof. Arthuros Zervos, EWEA and EREC President, Martina and Günther Hanreich; Director, European Commission, DG Transport and Energy

**27 January 2004 International Geothermal Energy Conference, Pomerance / Lardarello, Italy**  
ISEO was presented by Executive Secretary G.R. Grob, who explained the global task of ISEO to accomplish the transition to the Clean, Sustainable Energy Age, pointing out the great potential of the Deep-Well Technology, which will be able to replace all fossil fired power stations everywhere in the world in view of the advancing mineral resource depletion. Lardarello, the oldest industrial geothermal power facility in the world, was visited on the occasion of its 100<sup>th</sup> Anniversary.

**18-20 February 2004 4<sup>th</sup> GSFE Global Forum on Sustainable Energy, Vienna, Austria**  
ISEO Executive Secretary G.R. Grob and Founding Member Timur Erdogdu attended this UNIDO sponsored conference, stressing in the panel discussions the importance of total costing based on the new international standard ISO 13602-1 and the urgency of the world-wide implementation of the “polluters-pay” principle to make sustainable energy and efficiency measures more competitive.

**18 / 19 March 2004 European Green Marketing Conference, Lausanne, Switzerland**  
ISEO poster presentation and intervention about the need for complete energy statistics including all renewable energy options, based on the new ISO standard under preparation in the Technical Committee ISO/TC203 co-sponsored and chaired by ISEO Executive Secretary Gustav R. Grob.

**27/28 April 2004 International Energy Conference in Leipzig, Germany**

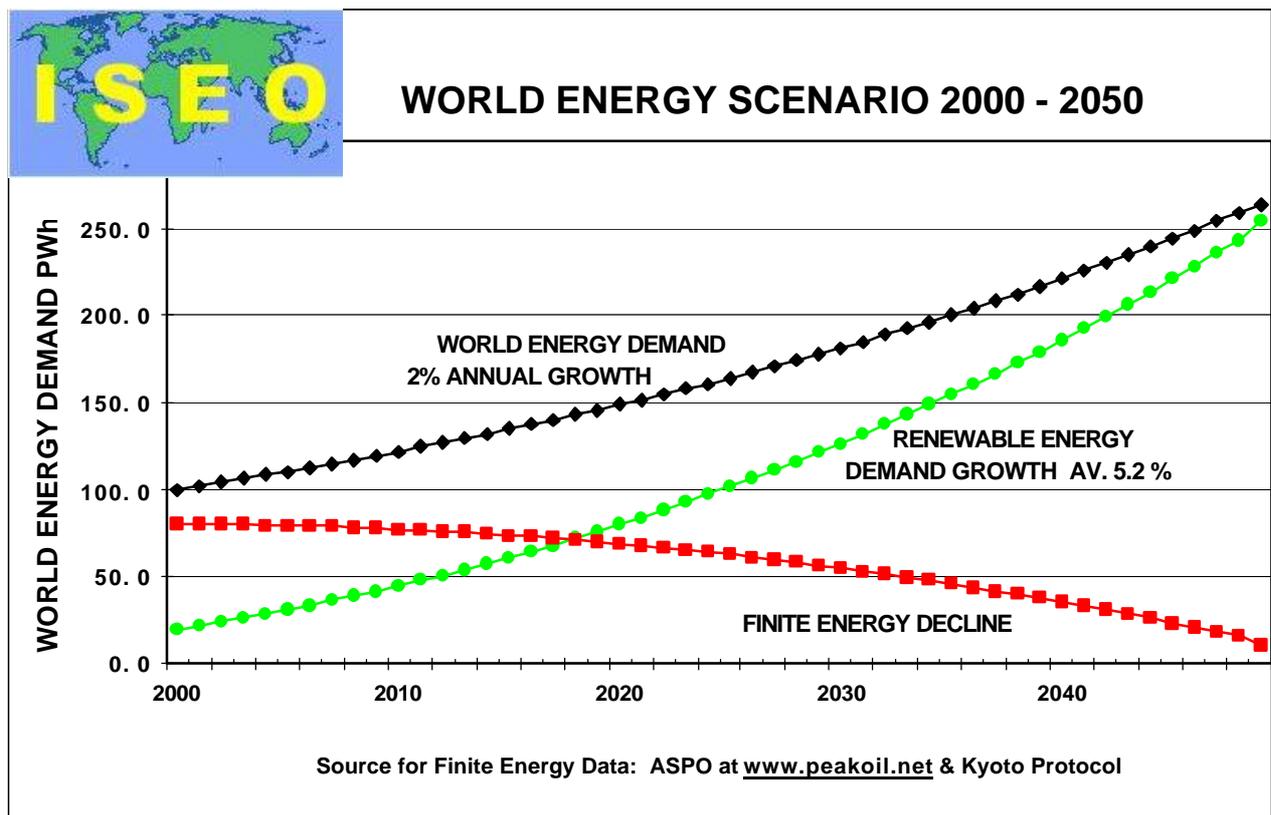


**International Congress in Leipzig: Restructuring the Energy Sector in Transition Countries**  
 Panel Discussions: From left: Gustav R. Grob, Executive Secretary, ISEO, Geneva, Oliver Knauff, OperaThing, Germany Mario Regwitz, Fraunhofer ISI, Karlsruhe, Martina Sumenjok, SLOBIOM, Moderator Susanne M. Schmidt, Bloomberg, London; Hossein Razavi, World Bank with G.R. Grob; James D. Wolfensohn, World Bank Group President (speaking on the screen), H.D. Harig, E.ON Energie, Stephan Kinnemann, German Afghanistan Trade Advisor, Theo Knoll, ZDF, Moderator.

The huge task of replacing harmful energy systems by clean, sustainable ones was discussed at large and World Bank President Wolfensohn reassured the audience of his bank's help to double renewable energy production within reasonable time. Executive Secretary Grob pointed to the colossal task in the large Asian countries with their huge populations, increasing mobility and lack of mineral resources, where renewable energies are the only answer to sustainable development.

**ISEO World Renewable Energy Survey**

Facing the inevitable world energy scenario illustrated below, if development goals in transition countries and the standard of living in industrialize nations shall be maintained, a world forecast with a financing plan for the massive implementation of clean, renewable energy systems has to be elaborated. Assuming that the cumulated energy consumption growth can be limited to only 2 % p.a. by improved efficiency, there is still a need for over 1000 billion USD/EUR annual investment, which must be deviated from mineral energy resources and defence budgets to renewable energy.



ISEO is conducting the necessary world survey to determine the maximum potential of all renewable energy options in conjunction with a new energy statistics and forecasting methodology to be standardized by ISO Committee TC203. More details about this project and about ISO standards can be found on the web portal [www.uniseo.org](http://www.uniseo.org) under the button [Implementation Tools](#).

### **Swiss National Council approves ISEO motion unanimously**

The Motion by late National Councillor Roland Wiederkehr to create ISEO in Geneva, submitted before the UN Summit in Johannesburg, has been carried forward by National Councillor Heiner Studer and was unanimously approved by the Swiss parliament in its 2004 spring session. While ISEO became operational in 2002 and was officially registered in 2003, it developed its world-wide activities and initiatives forcefully for the implementation of a world sustainable energy economy before mineral resources would be exhausted with an irreparably damaged environment by pollution and incalculable risks. ISEO thus helps safeguarding the fossil feedstock reserves for the chemical industry, which depends on these resources for centuries to come.

### **Discussions on Energy, Environment, Health and Climate Policy in China**

At the REAsia Conference in Beijing ISEO 7-9 April 2004, Gustav R. Grob highlighted the crucial importance of the transition to clean, benign energy systems replacing coal and scarce mineral energy resources, followed up by following letter to the President of the China People's Republic:

*Excellency,*

*With adoration but also with great concern the world is observing the fast development of China to become the economy No.1. In its role as biggest nation, China will have to assume the main responsibility for the survival on Earth, which is in danger due to energy constraints.*

*Having organized the very first sustainable energy conference in Beijing with the United Nations, several Ministries, Bureaus and Commissions in 1990, and after my keynote speech at the REAsia 2004 last week with representatives from your Ministry of Science & Technology, Chinese Academies of Sciences & Engineering, Energy Bureau of the National Development & Reform Commission, Policy Department of Environment Protection Administration, Organization for the Promotion of Energy Technology, and with subsequent talks at Tsinghua University on the occasion of the visit of the Science & Technology Commissioner of the European Union, we are kindly asking you to pay attention to the following request at the highest government level.*

*The impact of unsustainable energy production and consumption is endangering not only the survival in China, but of our whole planet due to constantly rising greenhouse gases and other pollutants. With China's excessive coal consumption of about 1 ton per capita, the old plan to increase it to 3 tons per capita and the incessantly rising petroleum consumption, the damages due to climate change, biodiversity degradations and rising oceans are becoming unbearable for the whole world, if the ISEO policy of eliminating such dangers are not strictly adhered to.*

*Therefore we suggest that China works closely with ISEO, which was initiated by the Swiss National Council before the Johannesburg Summit, to mitigate hazardous emissions together with other nations, by setting up an interdepartmental task force for the adoption of your policy and energy law to the ISEO goals, which are summarized in enclosed recommendation and in the Global Energy Charter for Sustainable Development, as elaborated on the ISEO web portal [www.uniseo.org](http://www.uniseo.org).*

*We are prepared to visit China soon again on this urgent matter and to receive your delegation on the occasion of its Brussels talks also in Geneva and at the Renewable Energy Summit in Bonn.*

*Rest assured of our full cooperation and support for the urgent transition to the clean, sustainable energy age, which is possible also in China with its vast geo, hydro, wind, solar, bio and marine energy resources satisfying a multiple of the present petroleum and coal consumption. The most effective way to implement a sustainable development policy is the replacement of the huge and harmful coal subsidies by subsidies for the accelerated implementation of benign, renewable energy systems and energy efficiency measures, such as the mandatory use of efficient lighting, heating and cooling.*

*Sincerely yours Gustav R. Grob, Executive Secretary on behalf of the ISEO Board*

China is facing a major battle against desertification and so are many other countries in the world. 12 % of the Earth's land surface are already deserts and further growing, absorbing more and more arable land. This is just another reason why global warming due to excessive man-made emissions must be reversed, if it is still possible with the growing fossil fuel pollution. Therefore we must agree with the EIR recommendations of Dr. Emil Salim, former Environment Minister of resource-rich Indonesia, as expressed in our letter to the President of the World Bank

**Quote:**

*Dear President Wolfensohn,*

*Thank you for the valuable points you made last week in the teleconference panel discussion at the Leipzig Congress "Restructuring the Energy Sector in Transition Countries". Hossein Razavi, Infrastructure & Energy Director, also made an excellent introduction about WBG's role and your sponsorship of the event was very much appreciated - see enclosed pictures. I also had the pleasure of meeting Helmut Schreiber at the International Geothermal Conference in Italy. I presented on both occasions the ISEO world renewable energy survey - see enclosed abstract with the graph proving the annual RES investment potential of 1 trillion USD to satisfy a cumulated annual energy consumption growth rate of merely 2 %, assuming a drastic improvement of energy efficiency ! News and details of ISEO's global task are exhibited on [www.uniseo.org](http://www.uniseo.org).*

*The renewable energy figures you mentioned (RE increase from 2 to 4 %) show the urgent need to compile more complete figures about the indispensable contribution of renewable energy in view of the depletion of the fossil energy resources which have a disastrous effect on the health, climate and biosphere. Enclosed 50-year energy scenario shows that about 20 % renewable energy is already being used p.a. The ISEO questionnaire matrix will provide a complete picture of the future RE mix potential in every nation. It will be the basis of a new ISO energy statistics and forecasting methodology by the technical committee under my chairmanship, which no other organization has been able to produce so far. One also has to keep in mind that fossil fuels have to be conserved for the chemical and metallurgical industries for many centuries to come - another good reason why their combustion must be drastically reduced, and therefore investment policies must be changed from energy to higher added-value downstream applications.*

*I also appreciated your reference to the proposals by esteemed ex-Indonesian Environment Minister Emil Salim, with whom I had constructive contacts at the historic Rio Summit of the United Nations and during the preparation of the Johannesburg Summit. Dr. Salim's "Extractive Industry Review" (EIR) proposals to re-channel investments massively into sustainable, decentralized energy development for the social benefits of indigenous people and the reduction of their payment imbalances is commendable. We should accept his strong recommendations as regards renewable energy in the "Institutional Priorities" chapter ( [www.eireview.org](http://www.eireview.org) ), as mentioned in his correspondence with you, dated Jan.12 and March 17, 2004.*

*Since you stressed the important policy role the World Bank Group is playing beyond project financing, we are kindly asking for WBG support of the pending ISEO survey, which will be an indispensable input to the upcoming Renewables 2004 Summit in Bonn. The results of the compilation and evaluation of enclosed questionnaire will also be most valuable for future investment decisions of the WBG and for sustainable government policies. It is already a proven fact that most renewable energy options are more cost effective than mineral energy systems, based on the new international standard ISO 13602-1, enabling decision makers to calculate the total energy cost and to analyse the life cycles of energy systems (LCA).*

*Thank you very much for your cooperation. Sincerely yours  
Gustav R. Grob, Executive Secretary ISEO*

### **In Memoriam of Prof. Dr.hc. Walter Holzer †**

ISEO co-initiator, visionary and grand energy pioneer Walter Holzer, Meersburg, died only two days after his 84<sup>th</sup> birthday on 14 April 2004. He made thousands of revolutionary inventions to improve the efficiency and safety of energy systems, created the first inherently safe light bulb socket, pioneered compact fluorescent lamps, hydrogen devices and wind power systems.