



International Sustainable Energy Organisation



United Nations-ECOSOC accredited

International Organizations Center, 1 Route des Morillons, Geneva Grand Saconnex

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World Sustainable Energy Conference

Launching the World Sustainable Energy Year 2012 Energy Recommendations for Rio+20

Tuesday 10 January 14.00 h until Thursday 12 January 2012 13.00 h

Objectives: Present and discuss all sustainable energy solutions and their implementation tools by energy type, quantity, annual investment and cost from now till 2050 and beyond. Show the positive impacts of sustainable energies on economies, jobs and health. Provide energy information input to the United Nations Rio+20 Anniversary Summit.

Participants: Government and United Nations officials involved in energy and environment, industry delegates, academia and relevant NGO representatives.

United Nations Organizations: WHO, WMO, UNESCO, UNITAR, UNEP-FI, UN-ECE, UNCTAD

NGOs: IUCN, CMDC, FEDRE, ISES, IGA, IHA, WWEA, IHA, GENI etc.

Technologies: Solar, Hydro, Wind, Geo & Ocean Thermal, Bio Energy, Novel Energy Technologies

Policy and Legislation: Global Energy Charter of Sustainable Development, National Energy Laws

Country Success Stories: China, Ethiopia, Germany, Indonesia, Norway, Switzerland etc.

Role of Standardization: International Standards Organizations ISO, IEC, ITU

Financing: Public-Private Partnerships, World Bank / IFC, Small Credits, Sustainability Funds

Impact on Health: WHO health protection initiatives, health statistics, prevention to avoid diseases

Impact on Climate: WMO / IPCC guidelines on Greenhouse Gas mitigation & renewable energies

Impact on the Labor Market: Examples from Germany, Korea, Canada etc.



Venue: 1 Route des Morillons, Geneva Grand-Saconnex
Bus No. 5, Stop Crêts-de-Morillon (near ILO & WHO)

Registration:	Monday	9 January 2012	16.00-18.00
	Tuesday	10 January 2012	09.00-12.00



Agenda

Tuesday 10 January

How to achieve world-wide energy sustainability

14.00 – 14.30 Introduction by the Hosts and Organizers

14.30 – 18.00 Plenary Session:

- | | |
|--|--|
| - The Global Challenge of Sustainable Energy | Gustav R. Grob, Chairman WSEC |
| - German Sustainable Energy Strategy | Harry Lehmann, Environment & RE Ministry |
| - Indonesian Low Carbon Energy Development | Herman Darnel Ibrahim, National Energy Council |
| - The Global Warming Strategy of Slovenia | Darja Piciga, Government Climate Strategy Office |
| - China Low Carbon Earth Challenge | Xiaodan Mei, President BIT, China |
| - Financing the Clean Sustainable Energy Age | Paul Clemens-Hunt UNEP-FI |
| - UN-ECE Sustainable Energy Commission | Scott Foster, UNECE Director Sustainable Energy |
| - WMO Weather Data for Renewable Energies | Michel Jarraud, Secretary General WMO |
| - WHO Energy Health Recommendations | Isabelle Wachsmuth-Huguet |
| - DSM Program of Geneva éco21 | Cédric Jeanneret, SIG Head of DSM Program |
| - Strategies for a Sustainable Energy Future | Ulf Bossel |
| - Statements by other Governments | |

Evening: Informal discussion groups

Wednesday 11 January

Implementation Means

09.00 – 13.00 Plenary Session:

- | | |
|---|---------------------------|
| - The Solar Energy Opportunity and Technologies | Chair: Ulf Bossel |
| - Bio Energy – the fourth largest Energy Sector | Ernst Bucher / Peter Fath |
| - Ocean Energy Development in Indonesia | H. Kopetz / M. Sumenjak |
| - Progress in the Condensed Matter Nuclear Science | Prof. Mukhtasar |
| - Sustainable Fuels / Methanol Production and Application | Francesco Celani |
| - Depletion and Waste Mining, Energy from Waste | Urs Weidmann |
| - Geothermal Resource – GEOCOGEN and Indian Example | Martin Weber |
| - Energy Supply & Storage with Geothermal Systems | Rutesh Arya |
| - International Standards - Tools for Sustainable Energy | R. Katzenbach / F. Clauss |
| - International Energy Standards by ISO | Gabriel Barta |
| - Science, Technologies, Ethics of the Future | Gustav R. Grob |
| - Towards a Global Energy Ethics | Luc Guillory |
| | Christoph Stückelberger |

13.00 – 14.00 Networking Lunch

14.00 – 16.00 Parallel Working Groups:

Group I – Room 1 (Plenary Hall)

Novel Energy Systems, LENR, Vacuum Solutions etc.	Francesco Celani, Chair
Blue Building Concept / Super Efficient Energy System	Norbert Stegmann

Group II – Room 2

Recycling, Energy from Waste and Waste Mining	M. Weber / F. Stöcklin, Chair
New Recycling Methods	Miroslav Kragelj

Group III – Room 3

The Clean Fuel (R)-Evolution, Methanol	Urs Weidmann, Chair
Hydrogen Cannot Solve the Energy Problem	Ulf Bossel

16.00 – 18.00 Parallel Working Groups

Group IV – Room 1 (Plenary Hall)

Solar Energy Applications and Africa	Ilise Feitshans, Chair
Disseminating Solar Technologies in Rural Africa	Franziska Heusser
Solar Sister Success in Africa	Jennifer Helfrich
The Ethical Water Exchange in Africa	Valérie Issumo

Group V – Room 2

Education for Sustainable Development
Virtual Universities for Energy Training

Darja Piciga, Chair
Fredy Schwyter

Group VI – Room 3

Ethics & Energy Charter for Sustainable Development
Energy of Tomorrow – What Kind of Ethics

Ch. Stückelberger, Chair
Eleni Regli

19.00 Banquet Dinner Buffet at the Conference Center

Thursday 12 January

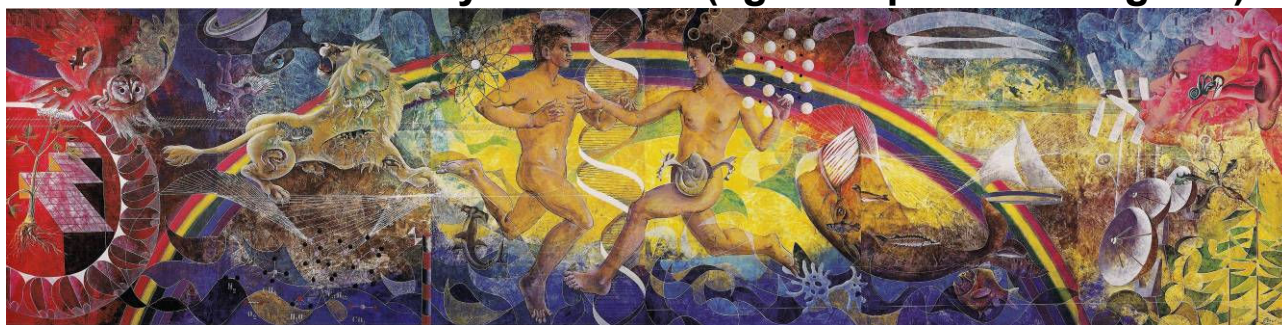
Implementation Planning

09.00 – 13.00 Plenary Session:

- The Global Energy Charter for Sustainable Development
- Sustainable Energy for Low Carbon Slovenia
- Bavaria Roadmap towards a Sustainable World Economy
- Conclusions from Slovenian International Conference
- Renewable Energy & Energy Efficiency for Green Economy
- The Role of Green Cross
- Mid- and Long Term Energy Planning
- Conclusions, Recommendations to RIO+20 Summit

R. Ottinger / G.R. Grob
Darja Piciga
Heiko Martens-Scholz
M. Sumenjak-Sabol
Fegan & Farhad Aliyev
Adam Koniuszewski
B. Gulejova / G.R. Grob
G.R. Grob / Ulf Bossel

Conference Credo by Hans Erni (age 103 painted at age 90)



Human Beings in the Center of Clean, Sustainable Energies in the Intact Harmony of Nature

The Blueprint for Clean, Sustainable Energy formulated at the World Clean Energy Conference 2000 in Geneva will be updated as proceedings of the WSEC conference

Organizational Committee

Chairman and Chief Editor	Gustav R. Grob, ISEO, Dean em. Energy Institute, London
Logistics & Enrolments	Abdolreza Metghalchi / Paula Eger and Team
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Health Aspects	Isabelle Wachsmuth-Huguet, WHO
Educational Aspects	Darja Piciga PhD
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Bio Energy, Agriculture & Food	Mag. Martina Sumenjak Sabol, SLOBIOM
United Nations Relations	Roswitha Grass, CMDC & Share International
Enterprise and NGO Cooperation	Carl-Gustav Bjertnes

Promotion of New and Renewable Sources of Energy by the United Nations

Extract from the Report of the UN Secretary General - 66th General Assembly

A transformation of the global energy system is needed to provide sustainable energy for all, to satisfy rapid growth in energy demand, particularly in developing countries, and to diminish the negative impacts of climate change. New and renewable sources of energy stand at the center of global efforts to induce a paradigm shift towards green economies, poverty eradication and ultimately sustainable development. Record investments are being made by some countries to propel innovation, development and commercialization of renewable energy technologies. Nevertheless, much more cooperation and action is needed to substantially increase the contribution of these technologies to the global energy system. A coordinated global energy strategy needs to be adopted, in conjunction with consistent and stable national policies, to bring down the cost of renewable energy technologies, including off-grid systems, for use by the poorest segments of the population living in rural areas.

Sustainable energy for all

1. The availability of adequate, affordable and reliable energy services is essential for alleviating poverty, improving human welfare, raising living standards and ultimately for achieving sustainable development. As global development challenges continue to be undertaken, it is increasingly recognized that provision of adequate energy services has a multiplier effect on health, education, transport, telecommunications, and water availability and sanitation. Consequently, energy is an important factor for achieving the Millennium Development Goals.
2. Securing “sustainable energy for all” involves the development of systems that support the optimal use of energy resources in an equitable and socially supportive manner while minimizing environmental impacts. Integrated national and regional infrastructures for energy supply, efficient transmission and distribution systems as well as demand programmes that emphasize energy efficiency are necessary for sustainable energy systems.
3. Universal energy access is essentially related to access to modern energy fuels that can replace traditional biomass consumption for cooking, heating and lighting. It also relates to access to electricity. Traditional biomass is solid biomass used in an unsustainable manner and includes fuel wood, agricultural waste and animal dung. It usually represents the only available or affordable fuel to the poor in many developing regions. Worldwide about 2.7 billion people depend on traditional biomass for cooking of which 83 per cent live in rural areas³. Modern or commercial biomass is produced in a sustainable way and can be used for electricity generation, heat production and transportation.
4. The use of solid fuels and the lack of ventilation in households in developing countries are associated with very high levels of pollutants such as particulates, carbon monoxide, and formaldehyde. Women and young children represent the segments of the population with the highest exposure to these pollutants⁴. Therefore, lack of or insufficient commercial energy use has been found to be correlated with high infant mortality, illiteracy, and with low life expectancy. It is estimated that about 1.45 million premature deaths occur each year from household indoor pollution due to inefficient biomass combustion. This corresponds to more than 4,000 deaths per day. Many of these premature deaths are young children and women.
5. Electricity has many uses and it is irreplaceable for a number of applications. Globally about 1.4 billion people live without electricity of whom 85 per cent live in rural areas. Sub-Saharan Africa has the largest number of people (about 585 million) without electricity. Over 400 million people in India, mostly living in rural areas, also lack access to electricity. Electricity access in rural areas is restricted by the need for capital to extend the national electric grids and by the lack of available and affordable modern fuels that could be used for electricity generation.
6. World challenges -- including impacts from climate change, limited natural resources, rapid increase in energy demand, and the loss of biodiversity -- demand a greater reliance on new and renewable sources of energy. Accessibility and affordability of renewable energy technologies are key to ensure sustainable energy for all.



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ORGANIZER'S MESSAGE

Balancing the climate, protecting biodiversity and the health of all life on Earth becomes a global task since the clear evidence was established by United Nations specialized agencies and programs such as WMO-IPCC, WHO, UNEP, UNESCO, FAO, international NGOs like IUCN, WWF, CMDC, GREENPEACE, GREENCROSS and many Academia, that irreversible damage occurred to planet Earth since the industrial revolution, modern civilization, wars and unlimited travel was enabled.

Destructive speculation, corruption and currency wars are other causes of suffering and job insecurity.

The world community must undertake fast remedial action against the damaging effects of ill-conceived human activities by all possible means through the UN bodies such as WHO, UNITAR, HABITAT, UNEP-FI, UNDP, UNIDO, WHO, ECE, ECA, ESCAP and UNCTAD supported by NGOs like ISEO, WWF, FOE, FEDRE, ICLEI, ISES, IGA, IHA, WWEA, GENI etc., based on the UN Millennium goals.

Clean, sustainable, efficient energy and food systems become imperative to remedy the damages from the polluting, risky resources of the last two centuries. They offer also millions of safe jobs to create social security and prosperity for everybody – in industrial and developing countries.

Knowing now all the deficiencies and negative impacts of human activities ranging from polluting, noisy vehicles, to inefficient buildings, unhealthy food, synthetic poisons in nature and man made disasters like Chernobyl and Fukushima, all efforts of the United Nations, governments, legislators and industry decision makers must aim at remedial action on a fast track.

US President Obama's goal for an 80% share of US power from clean energy by 2035 was similarly proposed by President Carter, but a lot of time was lost because of irresponsible short sightedness. Now we have the last chance to change course before the damage becomes irreparable.

This conference will show to the decision makers of the world that it is possible to make the energy economy fully sustainable, according to the "Global Energy Charter for Sustainable Development" as proclaimed at the Rio Summit in 1992, if funds are deviated from finite, depleting resources and oversized military budgets to benign, sustainable solutions. This will create millions of new jobs !

Gustav R. Grob

Executive Secretary of ISEO, Geneva *

Fellow of the Energy Institute, London, Dean em.

International University for Sustainable Life IUSL, Geneva

Chairman of ISO/TC203 Energy Systems Analyses & Statistics *

Chairman of the World Clean Energy Conferences in Geneva

President CMDC (Cercle mondial du consensus), Geneva *

President of the International Clean Energy Consortium

President of GEOCOGEN and STARWIND

www.cmdc.net - www.uniseo.org - www.iusl.net - www.icec.ch - www.geocogen.net - www.starwind.eu

* United Nations Affiliations



International Ecumenical Conference Center



Detail information for the World Sustainable Energy Conference

DATE AND VENUE

The conference will open in Geneva on Tuesday, 10 January 2012, at 14.00 h and will close on Thursday, 12 January 2012, 13.00 h at the **International Ecumenical Conference Center 1** route des Morillons, Geneva. Working sessions will be held in rooms 2 and 3 on the first floor.

VISAS

Since 12 December 2008, Switzerland applies the Schengen Agreement regulations concerning visas. Please refer to the Federal Department of Foreign Affairs Informative note on the implementation of Schengen-Dublin, accessible through the following link: <http://www.eda.admin.ch/eda/en/home/topics/intorg/un/unge/gepri/manvis/manvi2.html>. Visa procedures may take up to 21 days. You are therefore urged to apply for a visa well in advance of your desired departure date. It is understood that the decision whether or not to issue a visa to any applicant rests with the competent Swiss authorities. Applicants for a Schengen visa may be required to attach a support letter to their application. Requests for a visa support letter should be addressed to ISEO as soon as possible and include the name of the applicant, function/title, nationality, and passport number and details (date and place of issue and validity).

ACCOMMODATION

Participants are strongly advised to arrange their hotel accommodation as early as possible.

Reservations through: **Geneva Tourism & Convention Bureau, Rue du Mont-Blanc 18, P. O. Box 1602**

CH - 1211 Geneva 1 Tel. +41 (0)22 909 70 00 Fax +41 (0)22 909 70 11 <http://www.geneve-tourisme.ch>.

ACCESS TO THE INTERNATIONAL CONFERENCE BUILDING

It is situated five minutes walk from the UN Headquarters. It is close to the international agencies, within easy reach of the airport and the main train station and on a direct bus route to the city centre. By car: from the Place des Nations take the Route de Ferney or Avenue Appia Parking: On Ground Floor in front and behind the center.

By bus: From the Cornavin station, the 5, F and 28 lines stop at route des Morillons. From Cointrin airport, the 28 but stops at route des Morillons The numbers for calling taxis: 320 22 02, 331 41 33 & 320 20 20. The taxis stop in front of the main entrance 1 route des Morillons.

BUS PASSES

All participants staying at hotels, youth hostels or campsites in Geneva can benefit from a free Geneva transport card. The personal, non-transferable card is issued on registration at the place of residence, and entitles its holder to the use of the entire public transport network without restriction (bus, train and boat). It is valid for the duration of the stay in Geneva, including the day of departure. For those participants not staying at hotels, youth hostels or campsites in Geneva, bus cards may be purchased from the Naville newsagent in the ILO building or from ticket machines at bus stops.

REGISTRATION OF PARTICIPANTS / INFORMATION DESK

A Registration/Information desk will be set up at the main entrance of the Conference Center and will be open from 09.00 on 10 January. Participants are requested to register in advance by completing the enrolment form. Registered participants will be issued badges which will allow them entry into the meeting rooms. Participants who have not registered in advance, will be able to do so at the registration desk. When finally leaving the meetings, participants are requested to return the blank badge holder. Boxes are provided for this purpose at the ILO building exits.

RECEPTION FOR PARTICIPANTS

A welcome reception is foreseen to take place on 10 January from 10.00 am to 13.00 p.m. at the conference center lobby **DOCUMENTS**

All meeting documents will be available at the entrance to the Governing Body room, where plenary sessions will be held. Documents will also be available on the ISEO website. UN and ISEO publications will be available at the publications desk in the meeting area on level R3 south. For distribution of publications/documents to the PCB, participants are requested to refer to the Registration/Information Desk.

INTERNET AREA Computers with access to the internet are available at ILO Library, R2 south.

POST OFFICE A post office is located on level R2 north and is open from 10:30-11:30 and from 12:30-16:30.

CATERING SERVICES The restaurant is on the 1st floor

PERSONAL SECURITY

Geneva can be regarded as a safe city with a low rate of violent crime. However, pick pocketing and purse or cell-phone snatching do occur in the vicinity of train and bus stations, airports and in some public parks. Do not leave anything on car seats as doing so attracts the attention of thieves. Never leave bags containing money, airline tickets, credit cards or passports in a parked car.

Emergency numbers are: • Police 117 • Ambulance 144 • Fire 118 • Roadside assistance 140

WEATHER Geneva climate is harsh in January with average temperatures varying from an overnight low of 0°C to 10°C during the day. There might be occasional snow falls and cold winds. Warm cloth and a coat are recommended.

WSEC World Sustainable Energy Conference 10-12 January 2012

Enrolment and Sponsoring Form

Titles:..... Surname:

First Name / Initials:

Titles:

Organization:

Address:

Place:

Postal Code:Country:

Telephone: Fax: e-mail:

Special Interest:

Proposed Paper Title:

Proposed Exhibits:

Desired Working Group Participation:

Proposed Sponsorship:

Enrolment Fee (voluntary donation who can afford it):

Payable to Swiss Post Finance: IBAN: CH19 0900 0000 1252 8345 2 for CHF
Bank: Swiss Post IBAN: CH62 0900 0000 9156 4100 6 for USD
Address: Post Finance IBAN: CH37 0900 0000 9188 4905 2 for EUR
CH-3030 Bern BIC (SWIFT Code): POFICHBEXXX
Switzerland Clearing No. of Swiss Post Finance 9000

Beneficiary: ISEO - Sustainable Energy Organization, Genève (use IBAN for account no.)

Date: Signature:

Note: Some low-income delegates from LDC countries may need support.

Request here:

Due to limited space, please secure your seat by returning this form to the address below as soon as possible.

Hotel accommodation: see conference brochure detail information

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