



# ISEO-Media Release



25th Anniversary of the World Clean Energy Conference WCEC in Geneva ► [www.wcec.uno](http://www.wcec.uno)  
Pleading for the acceleration of the rapid sustainable energy and clean mobility advancement



On 4 November 2016 the 25th Anniversary of the World Clean Energy Conference held at the United Nations City Geneva was concluded with many strong recommendations to governments, the financial sector and decision makers.

**Dr. Bertrand Piccard**, Solar Impulse pioneer, who just completed the spectacular round-the-globe voyage with his revolutionary solar airplane, stressed the need for international cooperation on restructuring the whole energy sector towards clean technologies. His airborne discussion with UN Secretary General Ban Ki-moon and Swiss Energy and Environment Minister Doris Leuthard on his flight from Hawaii to California was shown.

Former **US Vice President Al Gore** presented his critical views about natural disasters from Global Warming in a passionate video message.

The Director of the **UN-ECE** Sustainable Energy Division, Scott Foster, presented his new definition of energy as a sustainable quality service to users.

Dr. Maria Neira, head of the environment division of the World Health Organization **WHO** has drawn attention to the catastrophic affects of pollution on the rising health cost and thousands of death of children and too many adults..

Dr. Roberta Boscolo explained on behalf of **WMO** Secretary General Prof. Petteri Taalas the big progress made towards providing the indispensable meteorological data for the rapidly growing clean energy sector.

Professor **Mohan Munasinghe**, IPCC Nobel laureate jointly with Al Gore, explained his views on clean sustainable energy enhancement and accepted the ISEO Vice Presidency.

Hans-Josef Fell, President of the **Energy Watch Group**, and member of German parliament 1998-2013, who initiated the feed-in tariff system with late Dr. Hermann Scheer, presented his natural clean renewable energy vision for greening the Earth and redirecting nuclear and fossil fuel subsidies to clean energy, that he calls in his book "Global Cooling".

Dr. Daniele Poponi, **IEA**, explained how the whole energy concept has to be restructured towards clean sustainable energy, not taking the blame for the perpetually wrong IEA energy statistics and forecasts of petroleum colleagues at the top of IEA.

Alfred Schwyter, showed how **Ethiopia** can become greener and explained the importance of clean energy education at all levels, to enable local people to succeed with the clean energy transition.

Dr. **Ulf Bossel**, illustrated why and how the energy sector can and must be redirected to clean technologies and why the overall efficiency of H<sub>2</sub> systems is not competitive with straight electricity.

Professor Daniel Favrat, founder of the **EPFL** Energy Center, explained the important role of the engineering profession for the needed clean energy advancement and safe energy systems.

Professor Christoph Stückelberger, Founder of **GLOBETHICS**, emphasized the great importance of proper ethical behavior, especially in the energy field, where corruption, energy wars and lies damage the common environmental interest and survival on Earth.

Governing Board member Professor **Jean David Rochaix**, updated the audience on the advanced R&D for the sustainable bio fuel production, based on nature's amazing bio cell efficiency.

**H.E. Energy Minister of Yemen** called for help for the development of the clean energy sector and the provision of potable water for the drying up capital of Yemen, Saana, by modern seawater desalination with clean, renewable energy as explained by Prof. Mohsin Ali Sufian.

Dr. **Fritz Florian** from Austria, explained a revolutionary solution to increase sustainable plant growth without any chemicals.

Rémi Gruet, **Ocean Energy Association** CEO in Brussels, explained the big unexploited potential of wave, tidal and ocean thermal energy systems.

Dr. **Francesco Celani** with **Nicolas Chauvin** showed the impressive progress on Low Energy Nuclear Reaction (LENR) research, to drive clean vehicles and feed decentralized energy systems.

**Adolf Schneider** NET Journal chief editor gave an overview of future novel energy systems that may revolutionize the energy economy.

**Ichin Cheng** illustrated her talk with future clean, smart city concept ranging from modern building technologies to clean, safe public and individual transport concepts.

Prof. Massimiliano Capezzali, director of the **EPFL** Energy Center gave an overview of energy storage technologies with their importance for the future energy supply infrastructure.

Franziska Heusser, from **SolAfrique** showed good examples of communal solar systems in Burkina Faso to grant the population a more civilized life.

**Dr. Ritesh Arya**, India, presented the enormous geothermal potential that can replace all nuclear power plants and petroleum. On the climate issue, the long weather cycles impacts can be tackled by building sustainable habitats in geologically favorable locations to reduce the use of fossil fuels by going 100% GREEN and CLEAN!

**Louis Palmer** the honored United Nations Earth Champion proved that it is possible to drive safely around the globe with solar energy only.

Lenglin Mathieu explained the new **TESLA** world strategy with integrated autonomous clean energy systems from the private solar source to energy storage and 100% electric mobility.

Louis Schaffer presented the world-wide **EATON** group's many winning mainstream clean energy, automotive and energy management activities.

Isabella Alloisio, of the **Enrico Matei Foundation** explained the huge restructuring of the financial sector towards clean, sustainable energy.

Cathy Oxby **Africa Green Co**, showed successful examples of Public Private Partnerships (PPP) to develop the energy sector in Africa..

Diana.C. Ortiz, illustrated the fast sustainable energy progress at the example of **Tanzania**.

**Fabio Maggiore**, R&D and Metal Recycling Manager, **ORIM S.p.A.** Italy, showed the importance of Materials Recycling in the light of Saving Energy and sparing resources for an all-encompassing Sustainable World.

**Peter Sage** explained how clean energy companies can be successfully kick-started without regrets.

Aladdeen Elgfarawi, highlighted the merits of the **MEDSHILD** and **REDSHILD** projects to protect the shores and deltas of the Mediterranean, Black and Red Seas by producing huge GW amounts of power and connecting the African continent to Arabia and Europe.

Prof. Urs Weidmann, from **SILENT-POWER**, explained the perfect decentralized energy production system based on a benign methanol infrastructure.

Daniele Pagani presented on behalf of the Founder of the Danish **Folkecenter**, the Solar Super State, the World Wind Energy Association the World Renewable Energy Council, how local communities can accomplish the transition to renewable energy without "big capital" and state energy lobbies.

**Prof. Christian Breyer**, explained how the whole energy economy can become 100 % renewable and profitable from A to Z.

Banking expert **Paul Clemens-Hunt** highlighted the important role of the global money market.

Many energy and clean mobility experts provided technology updates on clean energy and electric mobility with success stories and **ISEO Secretary General Abdolreza Metghalchi** showed how the nuclear dangers can be avoided forever.

**Martina Sumenjak Sabol**, ISEO VP underlined the importance of health diets and organic agriculture to produce enough food for All, that is for Hans-Josef Fell, besides renewable energy the second important pillar to reduce CO<sub>2</sub> in the atmosphere by greening planet Earth as fast as possible.

The conference Chairman, **Gustav R Grob** pointed out how much more political, financial and technical progress is needed to enable the survival on Earth, where the UNO and NGOs must play a crucially important role, based on the conclusions and recommendations of this historic WCEC Summit.

### 1) The four biggest mistakes in history:

- a) Too much money spent on **arms** (still far over 1.5 Trillion \$ per Year !).
- b) The world economy and energy depended too much on **finite polluting mineral energy**.
- c) The water, environment and health are too much affected by detrimental **chemicals, pollution and radiation**.
- d) Industrial agriculture, wrong **eating habits** with excessive consumption of meat, sugar and chemically degraded processed food affected the health and environment dramatically.

## 2) Clean, renewable energies are competitive with mineral resources if full costing is applied

Distributed benign, clean, sustainable energy systems must replace all finite, polluting energy as fast as possible. The **Blueprint for the Clean, Sustainable Energy Age** explains the ways and means how to achieve all 17 UN Sustainable Development Goals, proclaimed in 2015.

**Clean energy** (7) improves most SDGs on (1) poverty, (2) hunger, (3) health, (6) water (8) jobs & economic growth, (9) infrastructures, (10) unjust inequalities, (11) cities, (12) consumption, (13) climate, (14) aquaspheres, (15) life and biospheres, up to (16) for lasting peace.

## 3) Military budgets must be deviated to clean, sustainable energy

By replacing the waste of money and lives for warfare, the world can be saved from terminal decay by the world-wide prohibition of all arms fossil fuel driven military vehicles and explosives in a phased manner. Humankind better protects itself from natural disasters and health defects, than creating and fighting enemies.

## 4) Energy efficiency must be fostered by better hardware, software and education

The savings achieved by efficient energy systems can finance more clean energy and prosperity !

## 5) International Clean Energy Standards must be further developed and strictly applied

Clean energy systems become only mainstream with international standards and proper certification.

## 6) Transport must be freed from polluting fuels

Combustion engines are polluting and wasting energy with their too low efficiency. Electric drives offer very high efficiency, low noise and low operation and maintenance cost, but they must be fed by clean power sources.

## 7) Recycling or reuse of materials must be mandatory to conserve finite resources

The study "Limits to Growth" warned already in 1972 about the ultimate mineral resource depletion that necessitates conservation, reuse and recycling measures and abolition of the finite mineral fuels.

## 8) International environmental legislation and endorsements must be harmonized and furthered with ethical values

The eight principles of the Global Energy Charter for Sustainable Development proclaimed in 1992 at the 1st Rio Summit, serve as legal guideline for the implementation of the UN sustainable energy decade and for all UN sustainable development goals, complemented by a more ethical behavior of humankind, avoiding corruption, polluting energy subsidies, wars and terrorism.

## **Blueprint for Clean, Sustainable Energy Age**

Independent of the circumstance, whether all nations ratify the COP21 agreements or not, and despite the contradicting theories about the causes of global warming (SDG13), the protection of the health of all life (SDG 3) and the biospheres (SDG 14 & 15) and sustainable habitat necessitate clean sustainable energies (SDG7) to meet ultimately all 17 Sustainable Development Goals until 2030 and much beyond, since energy influences all other SDGs like livelihood and hunger (SDG1 & 2), education (SDG4), gender equality (SDG5), water quality (SDG6), work conditions and economic growth (SDG8), the integral economy infrastructures including clean transportation (SDG9), inequalities (SDG10) and sustainable communities, (SDG11), responsible consumption (SDG12), peace, avoiding energy wars (SDG16), and public-private PPP partnerships (SDG17).

The many authors of the updated **Blueprint for the Clean, Sustainable Energy Age** describe ways and means for the implementation of SDG 7 to ensure access to affordable, reliable, safe sustainable energy for all in conjunction with the reduction and ultimate elimination of the causes, necessitating this overdue transition.

It took over nine years until the **UN Commission of Sustainable Development CSD** and the **ECE Energy Commission** - who should have implemented the resolutions of the first Rio Summit - to include clean renewable energy in their agenda.

The many climate summits since Montreal and Geneva, and other clean energy initiatives suffered the same awful delaying tactics by vested energy interests since 1990. Therefore the WCEC Summit 1 - 4 November 2016 gives now new hope that the transition to a sustainable energy era will be pursued without further procrastinations by reactionary forces, since more and more big nations ratify now the COP21 agreements and seriously aim at the UN Sustainable Development Goals to save planet Earth for future generations in a clean, sustainable way ! So that a SAFE CLEAN PLANET can be passed to our Future Generations.

## **All vehicle makers compete now for electric**

The clean vehicle exhibition during the WCEC Summit showed that all electric versions from single wheel scooters to electric postal vehicles, electric cars, buses, heavy trucks, solar-electric boats and electric airplanes as demonstrated by the keynote speakers "Solar Impulse" pioneer Bertrand Piccard, and "UN Champion of the Earth", Louis Palmer after their electric round the world tours.

## **Sustainability Reports by Governments**

One of the new clean power leaders, **Costa Rica**, explained how 100 % fossil-free power supply is possible, following the good examples of **Iceland** (geothermal), **Norway** (hydropower) , **Denmark** (wind), **Portugal** and **Liechtenstein** (PV Solar).

At the other end of the scale **Yemen** presented its serious energy and water shortages, that can only be resolved by massive investments in clean energy and water projects, easing also the hostilities between suffering tribes, desperately needing clean water and power for their survival.

Stephan Volkwein, Secretary General of the **Solar Super State** association explained their ranking records from leading nations like Denmark for wind power and Liechtenstein for solar PV.

### The Role of the United Nations and NGOs

UN bodies, academia and NGOs are involved in the strategies and means to enable clean, sustainable development, in order to save planet Earth from irrevocable decay.

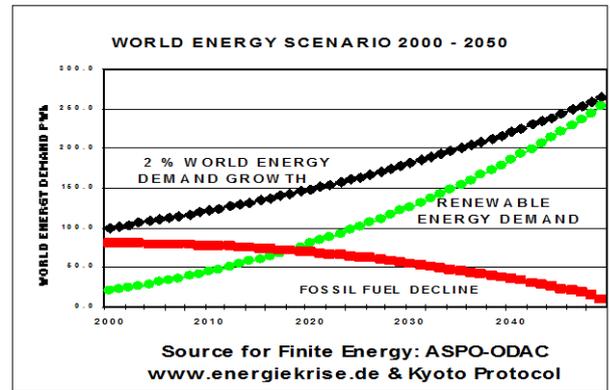
**UNESCO** and **UNITAR** give advice on the positive effects of education and science. **FAO** has to stress the importance of sustainable agriculture and food production to reduce the environmental footprint on Earth, while the World Trade Organization **WTO**, **UNCTAD** and **WBCDS** must show ways and means to a more ecological economy.

**UNEP** promotes better environmental protection, jointly with **WMO**, **UNISDR** and the International Union for the Conservation of Nature **IUCN**, and **UNFCCC** with **IPCC** on Greenhouse gas mitigation.

The United Nations Development Program **UNDP**, **UNIDO** and **GEF** orchestrate in partnership with the World Bank the implementation of sustainable energy projects, **HABITAT** and **ICLEI** care about clean, smart cities and the International Labor Organization **ILO** reports on the job creation potential of renewable energies in synergy with the **Intergovernmental Renewable Energy Agency**.

### Financing and Public-Private Partnerships

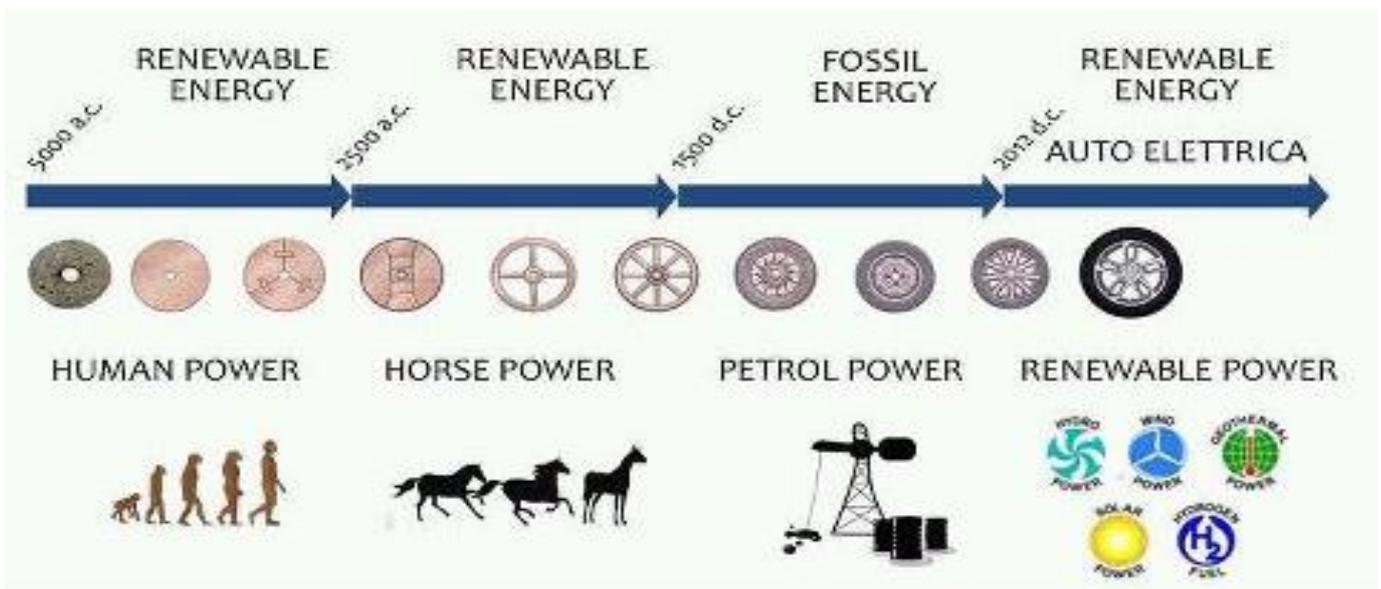
Only joint financial efforts can enable the transition from a finite resource dependence to a sustainable economy, as illustrated by the following forecast.



To finance the "green", clean, sustainable energy supply curve, driven by increased energy demand, due to population growth, modernized life styles, and to substitute the "red" finite mineral energy resources, an annual investment of over a Trillion \$ is needed - equivalent to the larger part of the present combined world military budget !!

Hence the world community has no other choice than to deviate its huge superfluous martial military expenses to survival investments in the form of clean, sustainable energy systems and habitat.

The WCEC conference speakers and the ISEO Governing Board and the multinational and multicultural audience agreed that the world has to change course to a cleaner, more sustainable energy economy by applying and expanding the **Blueprint for the Clean, Sustainable Energy Age**, containing lots of useful advice for future UN activities at COP22 in Marrakesh and for the rapid implementation of the Sustainable Development Goals by all governments and the private sector.



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