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Hopes and Progress for COP22 and SDG7 ► Blueprint for the Clean Sustainable Energy Age

The World will meet 1-4 November 2016 at the UN to re-launch Clean Energy Blueprint



The 25th Anniversary of the Minister-level **World Clean Energy Conference WCEC** will be held in Geneva from 1 to 4 November to launch the new edition of the **Blueprint for the Clean, Sustainable Energy Age** as essential input to **COP 22** and for the implementation of the **UN SDG 7 - Sustainable Development Goal for Clean, Sustainable Energy**. See 2000 Millennium edition on www.iseo.uno and updated 2016 version on www.wcec.uno website.

It is a huge task to restructure the whole energy economy to avoid further health and environment problems from pollution and radiation. The Blueprint is the **Master Plan** to reduce anthropogenic man-made climate change affects that worsened the natural long-term climate cycles and the natural balance from environmental degradation by fossil fuels and the excessive use of petrochemicals, and to avoid incalculable risks with fissile energies at their prohibitive costs - see ISEO Newsletters 2015.

The **Blueprint for Clean Sustainable Energy** contains technical, financial and legal solutions to succeed with the transition to a clean energy economy in an acceptable time frame. Good examples of redirecting funds to clean energies are the recent decision of investment funds like the Rockefeller Brothers and the Norwegian State Pension Fund. Another means is the reassignment of fossil fuel and nuclear subsidies - amounting to hundreds of billions of \$ - to clean safe energy systems. The World Bank is also redirecting its investments to clean sustainable energy projects.

The **Global Energy Charter for Sustainable Development**, that was formulated 1991 at the first WCEC in Geneva and proclaimed at the first Rio Summit. It is still a useful guide for the clean sustainable energy implementation and is center piece in the Blueprint with its eight principles covering benign energy technologies, international standards, training, tax reforms, financing etc.

The WCEC Summit 2016 is organized in close cooperation with leading governments like China with its Energy and Environment Summit CEES and other akkies like Germany, Denmark and USA.

Clean Transport in the Limelight

The most attractive side event of the WCEC summit is the exhibition of all kinds of electric and solar transportation means, ranging from single-wheel scooters to the Formula E racing car of the world champion, solar boats, electric buses, trucks, trains and clean agricultural vehicles, to the famous Solar Impulse airplane, that just finished its historic round the globe voyage. The initiator Bertrand Piccard will open the WCEC summit with a keynote speech about the solar and electric vehicle revolution. The actual world energy consumption share of transport is about 1/3, mostly provided by fossil fuels. Electric drives need less than 1/8 without pollution and less noise, thanks to the much higher electric motor efficiency. The other benefit are the drastically reduced maintenance cost.

The exhibition will be combined with electric car test rides, novel vehicle demonstrations, excursions and an electric bus service from Geneva airport.



WAVE electric car event at the UN in Geneva 17 June 2016

Importance of Total Energy Cycle Costing

One of the fatal issues is the total life-cycle energy costing, taking into account all external and social cost for healthcare, environmental degradations, safe waste disposal and final de-commissioning, amounting to billions of \$, but is too often missing in the energy calculations, passing it on to the tax payers. It must lead to the "polluters pay" principle.

International Standards will be presented for the correct analyses and costing of all technical systems and for the correct specification, design and certification of clean energy systems.

Involved UN Agencies and Academia

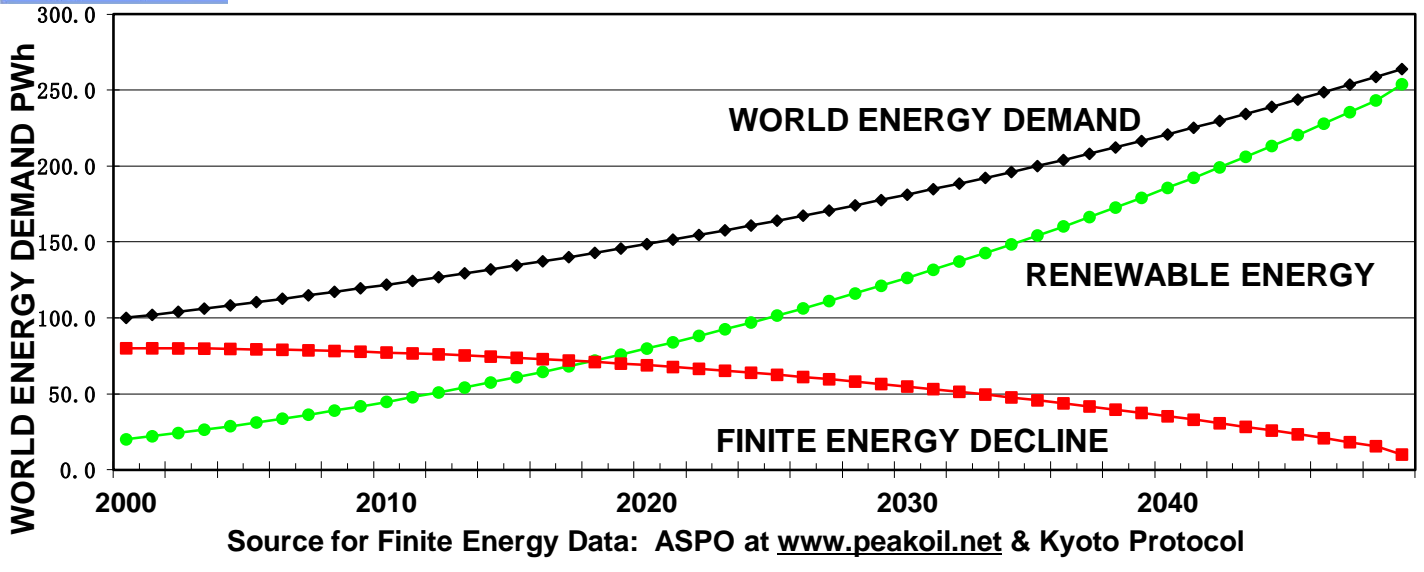
As in all previous summits, WCEC and ISEO are in close cooperation with all relevant UN bodies and many top academia.

Cooperation with ISEO and WCEC Summit

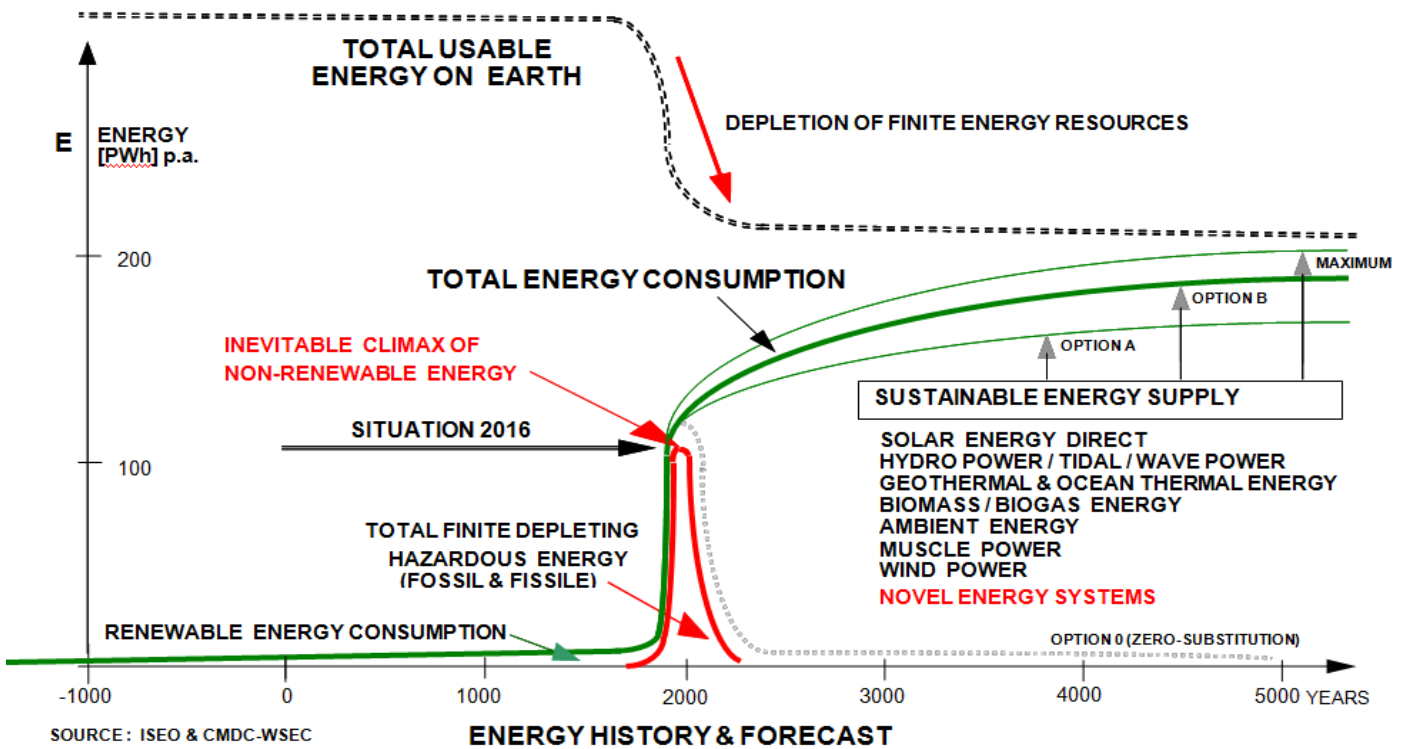
Please contact info@iseo.uno for application form. More info on www.iseo.uno and www.wcec.uno.



WORLD ENERGY SCENARIO 2000 - 2050



The Overall Energy Picture shows the inevitable decline of all finite energy resources, independent of all political climate and environment debates.



The objective of the WCEC-CEES summit is to show realistic ways and means to cope with the challenges in above graphs, that are inevitable, independent of all climate discussions, because of the rapid depletion of finite natural resources and their disastrous affects on the health and biospheres

Only renewable, sustainable energy systems have a chance to survive the 21st century, with the good news that most of them are clean without affecting the health, climate and environment. Biomass should be handled with care with preference to the increasing food demand, but all organic waste is a perfect energy feedstock.

A great hope are the **NOVEL** energy systems based on advanced research, complementing the other clean energy systems, that are limited by their water, wind, geothermal and biomass resources. A special session will be dedicated to this future energy sector.