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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) **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).

Therefore the many authors of the **Blueprint for the Clean, Sustainable Energy Age** are describing ways and means for the implementation of SDG 7 to ensure access to affordable, reliable, 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 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 !

All vehicle makers compete now for electric

The clean vehicle exhibition during the WCEC Summit will show 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**, will explain how 100 % fossil-free power supply is possible, following the good examples of **Iceland, Norway, Denmark, Portugal and Liechtenstein**.

At the other end of the scale **Yemen** will present 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.

The Role of the United Nations and NGOs

UN bodies, academia and NGOs explain at the WCEC Summit of **ISEO** their strategies and means to enable clean, sustainable development, in order to save planet Earth from irrevocable decay.

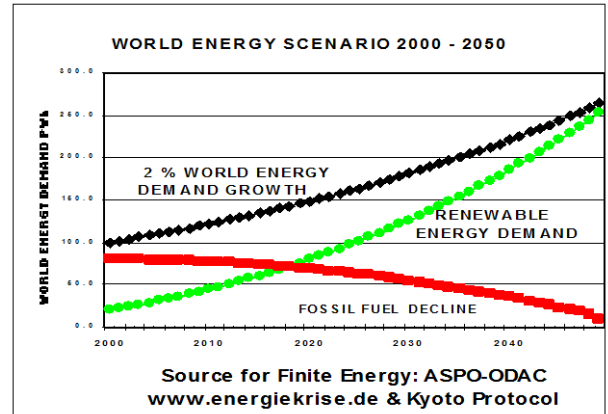
The World Health Organization **WHO** will draw public attention to the catastrophic affects of pollution and radiation on the rising health cost. **UNESCO** and **UNITAR** will give advice on the positive effects of education and science. **FAO** explains the importance of sustainable agriculture and food production to reduce the environmental footprint on Earth, while the World Trade Organization **WTO, UNCTAD** and **WBCDS** 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** explains the job creation records and potential, thanks to renewable energy, jointly the **International 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 and 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.

I dearly wish the WCEC conference speakers, the audience and media success and courage, to help changing 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 like COP22 in Marrakesh and the SDGs, with the private sector in the immediate future !

**Gustav R Grob, co-Founder of ISEO
Chairman of the WCEC Summit in Geneva**

