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Energy Charter for Sustainable Development

During the preparations for the first **United Nations Summit on Environment and Development** in 1991 the **Global Energy Charter for Sustainable Development** was elaborated by international experts and the environment lawyers R.L. Ottinger, Pace Law School, ex-Chairman of the US House Energy Committee, and Prof. Adrian Bradbrook, Dean of the Adelaide Law School, Australia, at the first **World Clean Energy Conference** in Geneva.

The Global Energy Charter was proclaimed at the plenary of the Rio Summit in 1992, leading to the foundation of the **International Sustainable Energy Organization ISEO** by a Swiss National Council motion and to the **UN Sustainable Development Goals** at subsequent Rio Summits and finally to the energy credo of UN Secretary General Ban Ki-moon "**Sustainable Energy for All**" and the **Sustainable Energy Decade** starting in 2012 at the 20th anniversary of the Rio Summit.

After years of boycott attempts by reactionary lobbies the Global Energy Charter for Sustainable Development is now recognized again by the UN:

Division for Sustainable Development (UN-DESA) Sep 26, 2015 01:55 AM: Thank you for registering a multi-stakeholder partnership/voluntary commitment in the SDGs Partnerships Platform. After a short editorial review, the initiative will be published in the platform. Copyright United Nations Department of Economic and Social Affairs UN-ECOSOC.

It took over nine years until the UN Commission of Sustainable Development CSD - that should have implemented the resolution of the Rio Summit - included energy in their agenda. The COP climate summits and other clean energy initiatives suffered the same delaying tactics. COP21 in Paris gives now hope that the transition to a sustainable energy era will be pursued without further delaying tactics by reactionary factions, since even the Pope is urging the world community to save planet Earth for future generation in a sustainable way !



China takes the lead with electric vehicles

With the largest population and biggest vehicle market of the world, and because of its scarce petroleum supply and unbearable pollution, China is accelerating electric mobility. With its several hundred million electric bikes and three-wheelers, over 100'000 electric cars and over 30'000 electric buses, China took the lead by changing production to advanced electric vehicles, combined with a smart grid plan and the latest telematic electronics.

This future scenario will be discussed on 24/25 October 2015 at the International Forum on Intelligent Vehicles in Chengdu, capital of the Sichuan province, by the Telematics Industry Application Alliance TIAA - see www.tiaa.org.cn.

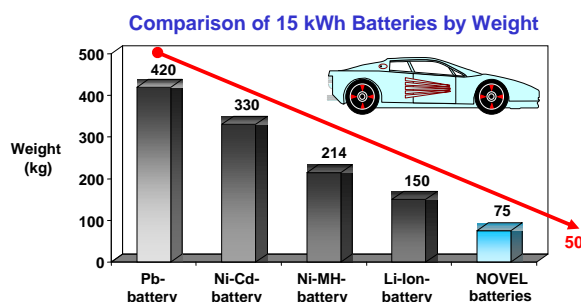


.... but also the USA are catching up

After GM's pioneering EV1 launched in 1991 and TESLA's rising success since 2003, most other car makers ventured into electric and hybrid vehicles. In China BYD was among the first ones combined with its own battery factory like TESLA.

Battery technology advances and electronics are the key for success as illustrated below.

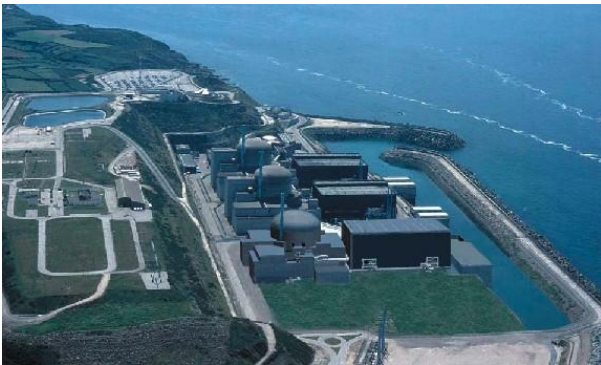
Future Electric Cars - Long Range & Long Life



Nuclear unsafe and prohibitively expensive



The amount of Uranium will not be sufficient to fuel the existing and planned nuclear power plants. In fact it will be difficult to avoid supply shortages even under a slow 1% annual worldwide nuclear energy phase-out scenario - Michael Dittmar, ETH Zürich.



French utility EDF announced another delay for the EPR nuclear reactor it is building in Flamanville, Normandy to 2018 which should lead to additional costs of over **10 billion Euros from an initial budget of 3 billion Euros.**

The Nuclear Safety Authority (ASN) announced that a "serious anomaly" had been detected in the steel composition of certain portions of the lid and the bottom of the tank of the nuclear reactor.

This case and Japan's unsuccessful trial to restart one of their nuclear reactors show that nuclear power has no future with the shortage of Uranium, too high cost and insurmountable safety problems

Scientists and economists including BP Plc's former chief executive officer, John Browne, are inviting governments to join a \$150 billion program that aims to make clean energy even cheaper than coal.

The consistently wrong forecasts by IEA

Message from the president of the **Energy Watch Group** (EWG), initiator of the EEG 2000 "Feed-in-Tariff Law" and ex-parliament member of Germany, Hans-Josef Fell:

A study of the Energy Watch Group and the Lappeenranta University of Technology reveals that the International Energy Agency IEA systematically sabotaged the solar and wind energy development. energywatchgroup.org

The study, published on 22 September 2015, concluded that **IEA** made in their annual **World Energy Outlook (WEO)** from 1994 to 2014 regularly misleading predictions for solar and wind power. The WEO greatly influences political and economic decision makers and governments as regards energy policy.

"**IEA** delayed for many years the clean sustainable energy evolution with wrong WEO energy forecasts that were leading to too high investments in fossil and nuclear energy, hindered the development of renewable energies and sabotaged the global fight against climate change" warned the president of the Energy Watch Group Hans-Josef Fell.

Despite the exponential growth of solar and wind power over the last decades and in the future, IEA assumed merely a modest linear growth of these technologies, i.e. no growth of annual installations. According to the WEO report the renewable energy share by 2030 shall be only 14% of the global energy supply. Considering the average growth in the last 20 years the forecast for the renewable energy share should in fact be closer to 60% !!

"Despite the rapidly growing RE markets WEO underestimates their potential drastically, leading to fatally misleading predictions" says the lead author of the study, professor Christian Breyer, at the Lappeenranta University of Technology in Finland.

From a scientific viewpoint these mistakes are unbelievable and from a social environmental view they are irresponsible. The Energy Watch Group and ISEO are appealing to the 29 IEA member states and the whole world to be more critical with these outlooks, especially since ex-chief economist and new executive director Fatih Birol has an OPEC background, lobbying for fossil fuels all these years. The IEA renewable energy team of Dr. Paolo Frankl should now get the upper hand and tell the world decision makers the real energy truth, but he disappeared now from the IEA website !

The alarming EWG study can be downloaded at http://energywatchgroup.org/wp-content/uploads/2015/09/EWG_WEO-Study_2015.pdf

Energy Systems Analyses by ISO/TC203

Energy experts are cordially invited to actively participate in the ISO/TC203 committee on technical energy systems. See "Tools for implementation ISO & IEC" on www.uniseo.org.

MEDSHILD Millennium RE Project

Conference 20/21 October on www.medshild.com

Cooperation with ISEO

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