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**Updated Blueprint for the Clean, Sustainable Energy Age** ► **World-wide Internet dissemination G20 & G7** ► **Chance to save planet Earth from harmful emissions by life-saving technologies**

### New Clean Energy Guide to Heal the Earth

Following up on the 25<sup>th</sup> Anniversary of the World Clean Energy Conferences in Geneva, the updated **Blueprint for the Clean, Sustainable Age** is ready now for free dissemination by ISEO on Internet – see [www.iseo.uno](http://www.iseo.uno) > Blueprint.

Saving paper is saving trees and allows free copying and dialogues thanks to the “paperless society” to further improve this comprehensive guide for fostering the clean, sustainable energy production and the efficient energy use to protect the **Health** and **Life** of all living species on Earth without abuses of chemicals and polluting energies – see the special health contributions on pages 117 and 129 – 152.

Special attention should also be paid to:

- How the **Global Energy Charter for Sustainable Development** should replace all unecological energy laws - p. 26
- The important role of the **United Nations** and international organizations – p.32-121
- How the ISEO/ISO **Standard for Energy Systems Analyses** makes all energy systems with their negative affects transparent - p. 90-97
- How **Energy Efficiency** saves resources and lots of money – p.271-275
- The chapter **Fuel Nexus** shows a new clean fuel technology and modern organic waste utilization with METHASYN, enabling the reprocessing of CO<sub>2</sub> instead of dumping it into the ground, wasting Millions of \$ - p. 284.
- How **Electric Mobility** improves the energy efficiency four times, reducing maintenance cost by more than half, doubling the vehicle life and eliminating fossil fuels to avoid the hazardous pollution, damaging the health – p. 461-466.
- Why to leave **Uranium** in the ground to avoid atomic bombs and the most expensive power generation, causing more cancer victims from the dangerous radiation of Strontium-90, Cesium, Plutonium and Tritium contamination – p. 579
- The many countries who produce their power by **100 % Clean Renewable Energies** – p.597-629.

### G20 will have to accept the G7 agreement

Exactly one year ago we reported about the G7 consensus to phase out fossil fuels.



The seven industrial nations, that form the G7 Commission, agreed to phase out the use of fossil fuels by the end of this century, in an effort they believe, would help to reduce greenhouse gases.

The leaders of the USA, Canada, Germany, France, the UK, Japan and Italy, who were meeting in Bavaria in 2016 and represent with China and Korea the leading car manufacturers, said they have committed themselves to “decarbonise the global economy by abandoning the production of internal combustion engines reducing fossil fuel emissions dramatically by the clean electric mobility.

The host of both summits, Angela Merkel, confirmed with her colleagues, except Donald Trump, to implement the COP21 agreements of Paris.



### India, German and France uniting in Hamburg for sustainable development and the Paris Treaty

Modern technology will enable this shift to clean, sustainable energy as fast as the evolution has happened in telecommunications and makes the polluting combustion engines superfluous, as demonstrated by China with their rapidly growing fleets of electric buses and taxis and India's intention to follow this trend by national legislation.

## Electricity Pioneers are Changing our World

In the late 18<sup>th</sup> Century **Luigi Galvani** discovered that electricity conveyed signals to the muscles. The first battery of **Alessandro Volta** around 1800 provided scientists with a reliable source of electrical energy. **Hans Christian Ørsted** and **André-Marie Ampère** defined electro magnetism and **Michael Faraday** invented the **electric motor** in 1821. The electrical circuit was then analysed by **Georg Ohm** in 1827. Electricity, magnetism and light were linked by **James Clerk Maxwell** in 1861/1862.

**Nicola Tesla** revolutionized electrical engineering by inventing the alternating electric current (AC), enabling power generation, transformation and distribution over long distances, rather than the DC system of **Thomas Edison**, inventor of the light bulb, that was replaced by fluorescent lamps and now by even more efficient light emitting diodes (LED).

**Alexander Graham Bell** started with the very first telephone the telecommunication age, that makes our life and work so easy now and the world so close together over unlimited distances.

Heir to Tesla's pioneering spirit, **Elon Musk**, had the courage to challenge the whole automotive industry with his electric TESLA limousines, following up on over 100 years electric vehicle history and **Bertrand Piccard** demonstrated the first solar electric aeroplane, capable of flying around the globe without fuels, while solar ships conquered lakes and oceans.

This development is gradually replacing steam from coal and liquid or gaseous fuels for transport. There are now even electric ferryboats. **Electricity is making humanity independent from any type of polluting fuels**, including power plants that can now be run by free clean energy sources like sun, wind, hydro, ocean and geothermal energy.

New, promising clean energy inventions are appearing in many laboratories, called **NOVEL Energy Sources**, described already by Nicola Tesla nearly hundred years ago – see relevant articles on pages 407-413 of the **Blueprint for the Clean, Sustainable Energy Age..**

One of the biggest mistakes in history was the use of radioactive materials like uranium for bombs and to drive steam turbines in nuclear power plants to generate electricity in the most inefficient, much too expensive manner, besides the unresolved problem of the radioactive waste. **Nuclear technologies are the worst inventions ever in history !** See p. 579.

**Alliances** are formed to implement the clean energy age by the historic **Sustainable Energy Coalition of CMDC**, that organized 1991 the first World Clean Energy conferences in Geneva and Beijing, to be followed up by ISEO after its initiation by the Swiss parliament in 2002. A bunch of flowers to Bertrand Piccard's commendable **Solar Impulse initiative !**

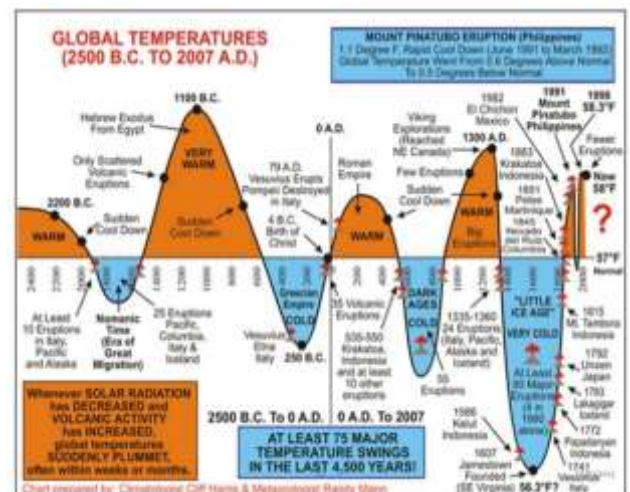
## Aimless Attempts to Save the Fuel Age

Even mighty state presidents like Donald Trump or filthy rich oil sheikhs do not have the power to turn the wheel back to the 20<sup>th</sup> Century of fossil fuels, despite huge mineral energy subsidies, since they are not competitive anymore with clean energies, that became main-stream industries with China as one of the leading nations, inspired since our first clean energy conference in Beijing in 1990 and our first solar factory business plan for China in 1995.

## The Truth about Global Warming

In the crossfire of contradictions about the many global warming theories, you find on page 126 of the Blueprint a holistic view on this highly political issue, ranging from blunt deniers of any global warming, like Donald Trump with his rich petroleum and coal supporters, calling it a hoax, to hysterical people panicking about a climate apocalypse, if one does not stop CO<sub>2</sub> emissions immediately, forgetting that

- CO<sub>2</sub> is indispensable for the plant growth
- There are worse emissions like CH<sub>4</sub> and NO<sub>x</sub>
- Extreme climate cycles happened since ever as illustrated here below:



Since we clearly seem to be in a natural temperature uptrend with melting glaciers and rising ocean levels, the big question is "whether" and "how much" greenhouse gases are accelerating temperature increase and when would a natural downtrend start. See also <http://vademecum.brandenberger.eu/>

As discussed at the WCEC Summit with health experts and environmentalists, the main question is how much are energy emissions and nuclear radiation endangering our healthy survival on Earth

## Cooperation with ISEO

You are cordially invited to support ISEO and its volunteers financially or in-kind to do its projects, newsletters and conferences. Please address your enquiries, suggestions and membership application form to the ISEO secretariat via [info@iseo.uno](mailto:info@iseo.uno) or directly to the Editor-in-Chief via [grob@icec.ch](mailto:grob@icec.ch).