

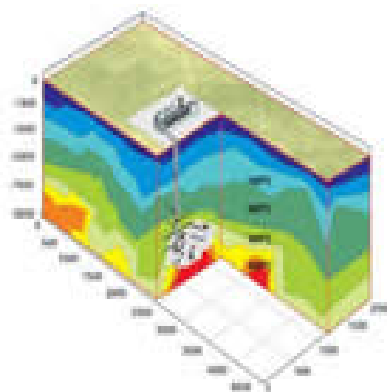


INTERNATIONAL CLEAN ENERGY CONSORTIUM

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GEOCOGEN® can replace all fossil & nuclear power plants of the world

The **GEOCOGEN®** deep-well hot rock geothermal co-generation system was developed by Swiss process engineer Karl Brunnschweiler with a professional team of civil engineers and geophysicists. It harvests renewable geothermal energy as 4th generation GW (1000 MW) class power plant by a sustainable, safe, closed water cycle.



The investment cost of **GEOCOGEN®** are much lower than with “clean” coal and only a small fraction of nuclear power plants. There are no risks, no wastes, zero pollution and no fuel cost, thus making **GEOCOGEN®** independent of all finite, politically insecure mineral sources, thus saving huge amounts of operation cost and foreign exchange in countries without mineral resources.

GEOCOGEN® energy can conveniently be produced anywhere close to urban electricity and heat consumption agglomerations, independent of hot aquifers, thanks to the worldwide temperature gradient of more than 30 °C per km earth crust depth, thus reducing the cost of energy transmission, avoiding the losses and transport cost from remote conventional power plants.

There are no of fuels needs at all and negligible decommissioning cost compared with the prohibitively expensive, unsustainable and too risky radioactive nuclear installations.

GEOCOGEN® requires only a small plot of land for its steam turbine building, which can also be placed underground with invisible cable connections to the grid. It does not embarrass the neighbouring population with the flooding of landscapes, noise, ugly cooling towers and pollution, or annoy environmentalists with the impairment of natural beauties, flora, fauna, birds and wildlife.

The generated base load power of **GEOCOGEN®** satisfies also perfectly the clean mobility with its night charging needs for the millions of future electric vehicles, which in turn serve as peak power source, as well as the proven hydro power pumping in the integrated smart grid concept.

The ample excess heat after the steam turbines can be used for industrial, agricultural and district heating purposes, thus reducing the energy cost to only a few cents per kWh, which makes **GEOCOGEN®** competitive with international wholesale electricity rates and fossil fuel fired heating systems. Thus no subsidies are needed any more on the long run.

Installation times with modern automated tunnelling methods are much shorter than for nuclear power plants with their extremely long building permission delays due to political obstacles and the procrastinating oppositions by NGOs promoting benign sustainability.

The perfectly sustainable **GEOCOGEN®** energy harvesting system is also competitive with gas fired power plants due to their rising gas prices and politically insecure, depleting gas supplies during their plant lives. It can be built next to existing steam power stations to modernize coal, gas, oil or Uranium fired thermal power plants, using the existing infrastructures.

