



Global Energy Solutions

For Prosperity and Climate Neutrality

Hereby you are receiving the Global Energy Solutions newsletter for the month of July 2021.

Our topics:

Interview with Franz Josef Radermacher on the topic of blending quota

West Africa could supply all of Europe with green energy

What does climate-neutral mean here?

On our own account: project funding confirmed



Prof. Dr. Dr. h.c. Franz Josef Radermacher, member of the Executive Board of Global Energy Solutions

We need a realistic, implementable programme

Global Energy Solutions proposes to German politicians that climate-neutral synthetic fuels be added to today's classic petrol. This is also possible for diesel and heating oil. The blending rate could be 15 percent in 2030. This would be a considerable contribution to achieving the goal of the new German climate protection law. Compared to 1990, the aim is to reduce CO₂ emissions by 65 percent by 2030. Drivers would hardly notice this admixture. Not on the technical side, because synthetic petrol (just like diesel or heating oil) meets the same standards as petrol from fossil sources; the engines are designed for it. And on the economic side, too, hardly anything would change; the price at the pump would remain more or less the

same. The blending rate can be designed in such a way that it can be increased at will – up to 100 percent. If this were to happen, even worldwide, the 1.3 billion combustion vehicles on the planet could be made climate-neutral.

[To the Video](#)

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West Africa could supply all of Europe with green energy

The Potential Atlas of Green Hydrogen by the German Federal Ministry of Education and Research (BMBF) shows almost unbelievable possibilities for energy cooperation between Europe and Africa. According to this, up to 165,000 terawatt hours of green hydrogen can be produced annually in West Africa alone. This corresponds to more than 100 times the amount of green hydrogen that Germany will probably have to import in 2050. By comparison, the installed capacity of offshore wind power plants in Germany is currently about 8 gigawatts and is expected to grow to 40 gigawatts by 2040. The potential of West Africa is therefore huge – and inexpensive. According to the BMBF, large quantities of “African” hydrogen can be produced at a cost of less than 2.50 euros per kilo – significantly cheaper than “German” green hydrogen, which is still expected to cost 3.80 euros around 2050.

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[H2ATLAS-AFRICA](#)

What does “climate-neutral” mean here?

The Wettbewerbszentrale recently criticised several companies, including Aldi Süd, for using the term climate neutrality in a misleading and non-transparent way. Yet this term has been established for many years. Since the Kyoto Protocol of 1997, it has been clear that CO₂ emissions caused in an industrialised country can be compensated elsewhere – for example by protecting forests or promoting renewable energy. This is exactly what Aldi Süd does, for example, by supporting certified projects in Brazil, Ghana, India and the Philippines. In particular, projects from the field of Nature-based Solutions are also part of the Global Energy Solutions toolkit. Companies that support such projects not only contribute to closing natural CO₂ cycles, but also promote the preservation of biodiversity and many other sustainability goals of the UN Agenda 2030 (so called SDGs). In her contribution, Estelle Herlyn, member of the board of GES, counters the uncritical reporting of the media on the complaints of the Wettbewerbszentrale.

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On our own account: project funding confirmed

The project, for which Global Energy Solutions e.V. was founded, can start on 01.07.2021. The Federal Ministry for Economic Cooperation and Development (BMZ) has approved funding for the research project “Global Energy Perspectives – Development of a Reference Model to Address Global Energy and Climate Challenges”.

The project aims to show that there is a prosperity-compatible solution to the global energy and climate challenges. In the sense of the Brundtland definition of sustainability, it is to be shown that it is possible to combine worldwide the concern of (catching-up) economic development with successful environmental and especially climate protection. To this end, a reference model is to be developed that shows for various branches of industry and sectors how they can be converted towards climate neutrality at economically viable costs. This involves both the provision of energy and the conversion and use of energy. The focus is on CO2 cycles – especially technical, but also natural (Nature-based Solutions).

The BMZ funding is also the basis for attracting further partners from industry, whose practical and entrepreneurial expertise is indispensable for the development of a realistic and feasible model.

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