

INF RSE-EUROPE

International Network for Sustainable Energy

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Proposal for Transition of Denmark to 100% Renewable Energy Until 2030

Just 20 years from now, in 2030, Denmark can be independent from fossil and nuclear energy. This is the conclusion of proposals and scenarios by INFORSE-Europe and *VedvarendeEnergi*. The scenarios show how the transition can be organised and how to manage the variations in a system with 100% renewable energy in 2030. In addition the new scenario shows a good economy of a future, renewable energy system for Denmark.

In 2030, where a large part of the electricity is expected to come from intermittent sources (wind and wave energy), there is a need for flexible electricity demands. This can be provided with heat pumps with heat storages, smart charge of electric cars, hydrogen production for transportation, and others.

With the increased fossil fuel prices, the 100% renewable energy proposal can be cheaper than the continued use of fossil fuels. This is the conclusion of calculations that show lowest costs for 100% renewable energy with 3% interests and with high and low fossil fuel price increases. With 6% interest and low fossil fuel price increases, the 100% renewable energy proposal is equally expensive to the continued use of fossil fuels.

The vision is based on studies of the possibilities for renewable energy and energy conservation, a model that has been developed based on the work of INFORSE -Europe that has developed a vision for a European transition to sustainable energy and scenarios for several countries. Additionally is used the EnergyPlan model from the Aalborg University. The work is supported by EU DG Environment and others.

This proposal is launched at the same time as the official Danish Climate Commission's report, released today, proposing 100% renewable energy for Denmark by 2050.

Read more at www.inforse.org/europe or call +45-86227000, ask for Gunnar Olesen