



United Nations



HIGH-LEVEL DIALOGUE ON ENERGY

UNITED NATIONS, NEW YORK, SEPTEMBER 2021



UN High Level Dialogue on Energy 2021 - Ministerial Thematic Forums – VIRTUAL

**Side Event by INFORSE: Local Solutions, Eco-Village Development, 100% Renewables, E-2/3 Wheelers; South Asia & East Africa
June 22, 2021 6 AM - 7 AM (New York time)**

Session 3

- **Energy Transitions through 100 % Renewable Scenarios and Plans Globally, from Denmark to Kenya and Uganda; and Successes,**
- **Challenges in Innovations in Sustainable Local Transport with Electric Bicycles in Europe & electric 3-wheelers in Bangladesh.**





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Transition to 100% Renewable Energy

Introduction, Gunnar Boye Olesen, INFORSE



International Network for Sustainable Energy

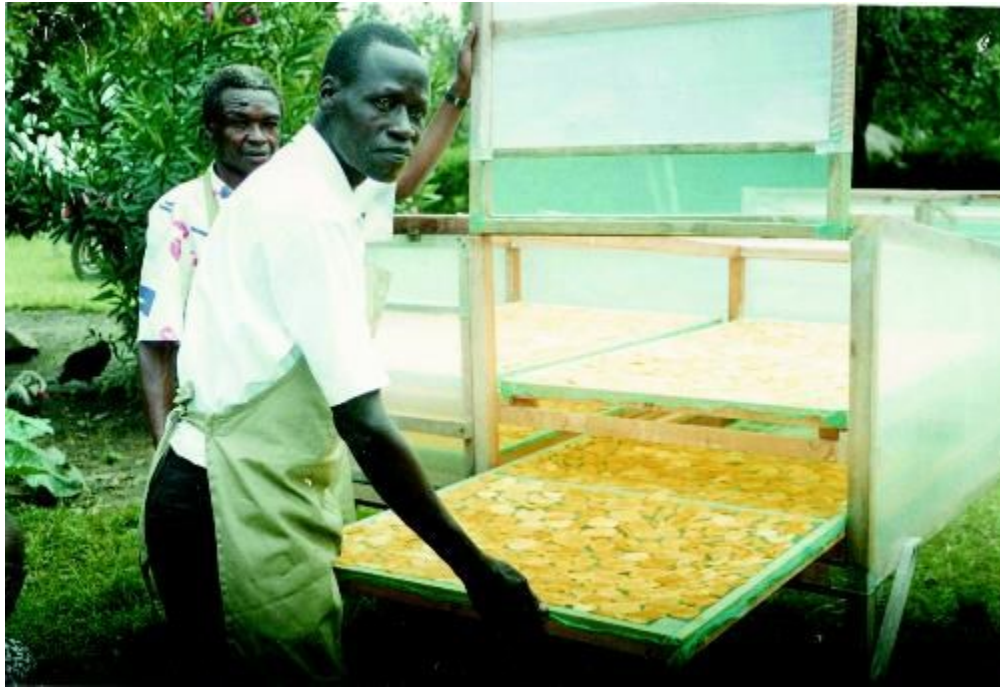


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Local Solutions, Eco-Village Development, 100% Renewables, E-2/3 Wheelers; South Asia & East Africa

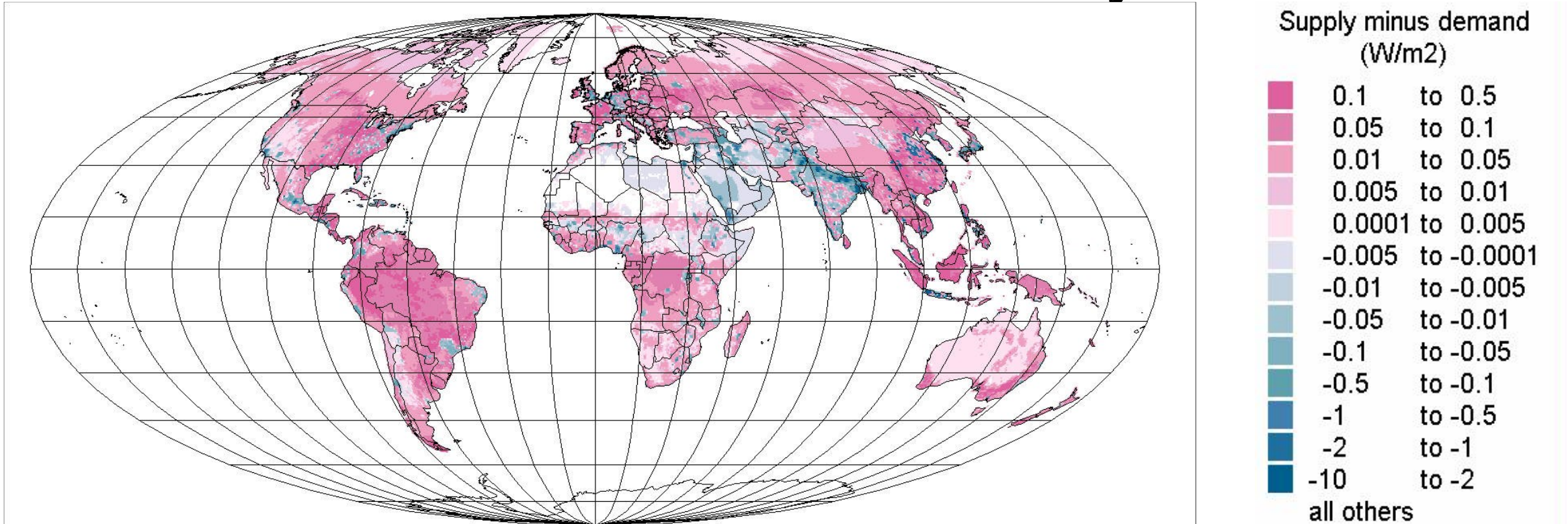


The INFORSE Vision

- Phase out fossil fuel and nuclear power
- Provide everybody with basic energy needs, also the 1 billion that lack basic clean energy for cooking and light today



The Global Vision: Enough Renewables for 9 billion people - if we use it efficiently



National and EU-wide Transitions to 100% Renewable Energy



INFORSE

International Network for Sustainable Energy

www.inforse.org/europe/Vision2050.htm

- Global Vision, 2050
 - Vision for EU, 2040
 - Armenia 2050
 - Belarus, 2045/2050
 - Bulgaria, 2040
 - Denmark, 2030
 - Estonia, 2040
 - Hungary, 2040
 - **Kenya 2050**
 - Latvia, 2040
 - Lithuania, 2040
 - Romania, 2040
 - UK ZeroCarbonBritain, 2030
 - Ukraine, 2050

INFORSE+SE: Fast Transition to Renewable Energy until 2030/35 with Local Integration of Wind and Solar in Denmark

100% renewable energy economy-wide.
An electricity system with 84% windpower & 7% solar can supply energy in all hours of the year (EnergyPlan analysis)
Cheaper than fossils in 2030, if we save energy and change transport.
Only domestic biomass needed.
100 % RE scenario fits into a zero carbon transition for Denmark.

 Vedvarende Energi



Electric Vehicles are hitting in Europe



Freebikeshop.dk

Freebikeshop.dk



postnord



Freebikeshop.dk

In Europe in 2019:

- was sold 3 million e-bikes

- was sold 0.35 million e-cars + 0.2 million hybrid cars

Electric Bikes (electricity assisted 2-3 wheelers)

- Electric bikes has become popular in Europe since year 2000
- They have helped older people to bicycle
- They make it popular to bicycle longer distances to work, up to 20 km
- They have made it popular to carry small cargo on bicycles, postal service re-introduced cargo bicycles.
- 20% of bicycles sold in Europe are e-bikes, 25% in Germany and around 50% in Netherlands, around 3 million e-bikes sold every year
- In Denmark, super-bicycles path have helped commuters around Copenhagen to use e-bikes



postnord.dk

wiggle.dk



We Can and Should Change to Renewables

- We can do it, both in North and South
- With right planning, we can do it fast (15-20 years) and with good economy compared with fossil and nuclear alternatives
- We need the transition for the climate
- We also need the transition for development and sustainable, affordable energy access
- The transition must be planned for all countries
- From INFORSE we invite for cooperation on the transition



www.inforse.org



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