

National and EU-wide Transitions to 100% Renewable Energy

**Presentation at UNFCCC SB42 Side-Event: Getting Ready for Zero:
An Overview of Who's Working on Zero Carbon Modelling & Tool Kits**

Date: Thursday, 4 June 2015, 16:45-18:15

Place: Berlin Room, World Conference Centre, Bonn, Germany

**The Side Event was organised by
INFORSE – International Network for Sustainable Energy
Nordic Folkecenter for Renewable Energy
Centre for Alternative Technology and Track 0.**

See Full Proceedings also at: www.inforse.org/europe/conf15_PreCOP21-Bonn.htm

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INF  **RSE**

International Network for Sustainable Energy

www.inforse.org/europe/Vision2050.htm

- **Global Vision, 2050**
 - Vision for EU-27, 2040
 - Belarus, 2045
 - Bulgaria, 2040
 - **Denmark, 2030**
 - Estonia, 2040
 - Hungary, 2040
 - Latvia, 2040
 - Lithuania, 2040
 - Romania, 2040
 - UK ZeroCarbonBritain, 2030
 - Ukraine, 2050

Fast Transition to Renewable Energy until 2030 with Local Integration of Wind and Solar in Denmark

100% renewable energy system for all sectors.

An electricity system with 84% windpower and 7% solar can supply energy in all hours of the year.

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.

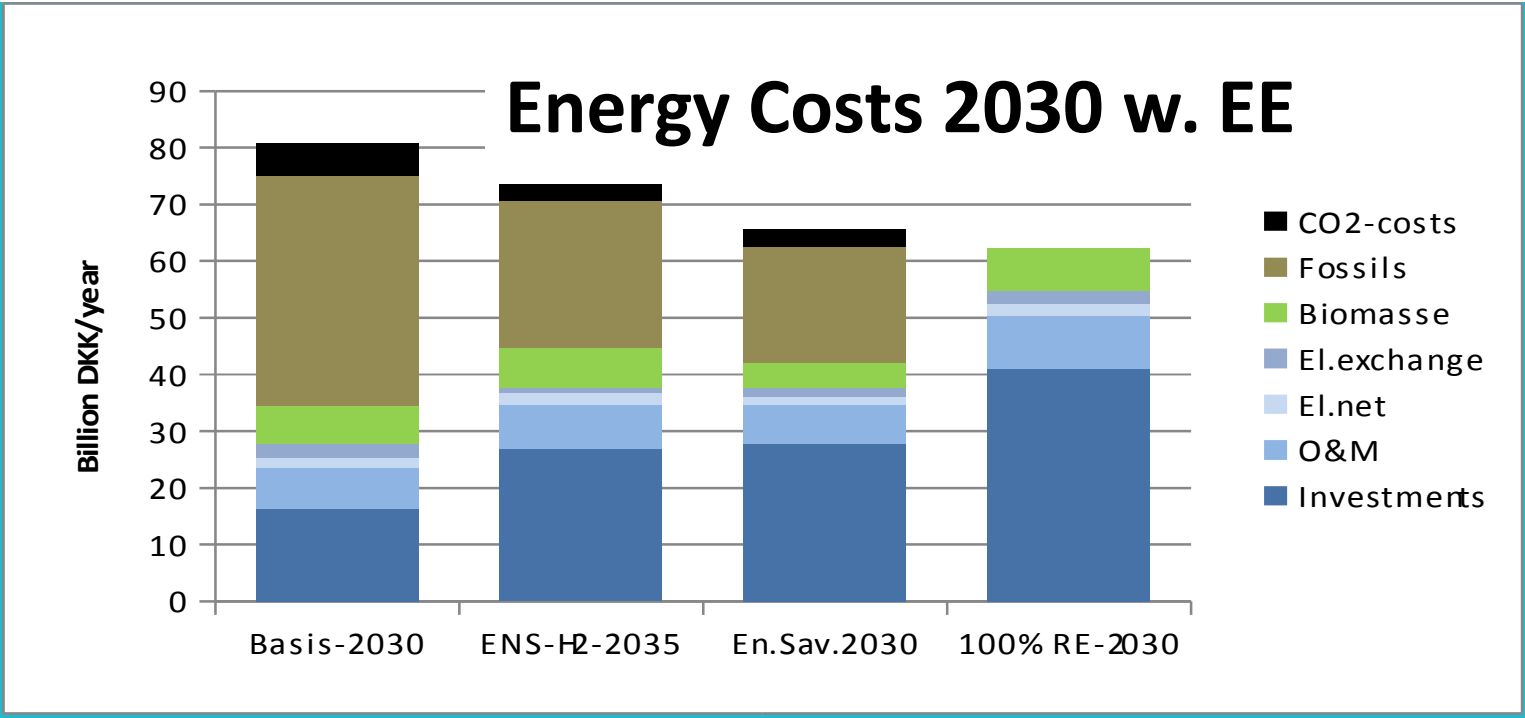
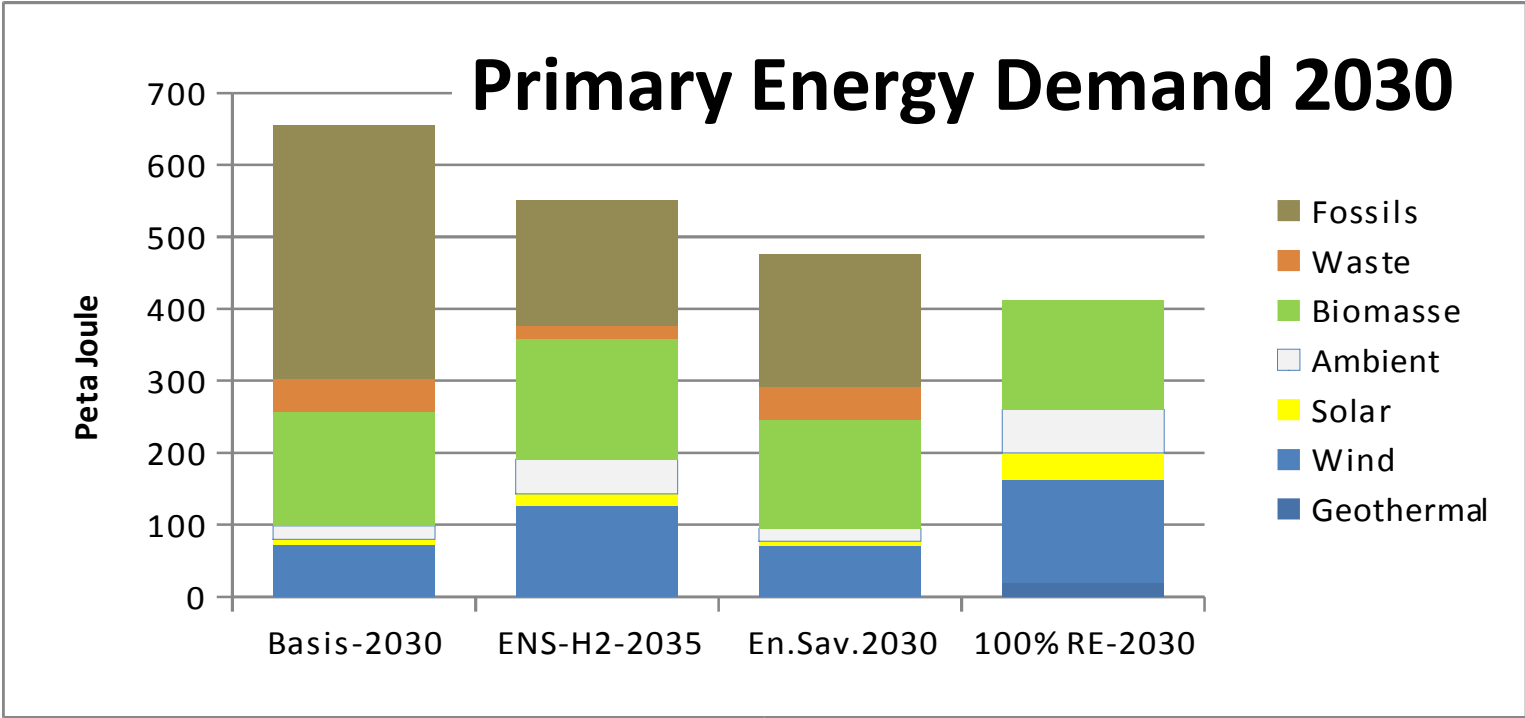


33% increase in energy efficiency 2010-30
with building codes, regulation of
appliances, loan guarantees for business,
tax deductions, popular and business
involvement

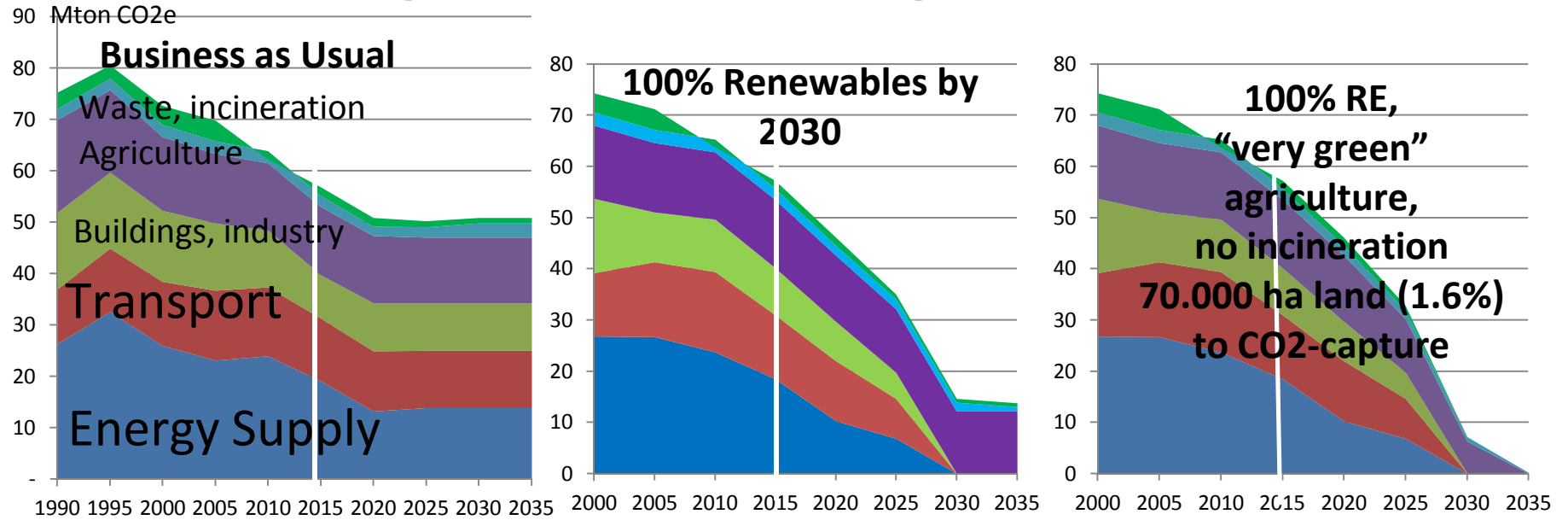
Transport: plan for limited transport,
modal shift to more trains, intro of
electro and hydrogen transport
Redirecting public investments, taxation,
urban road-pricing, car sharing schemes

11000 MW windpower, 4000 MW solar PV,
1800 MWe heat pumps, solar heating,
geothermal, heat storages, hydrogen with
storages, more district heating,
135 PJ biomass, popular participation





Danish greenhouse gas emissions



+ reductions in international aviation, shipping, imports

