



Reduce—Energy Conservation Opportunities

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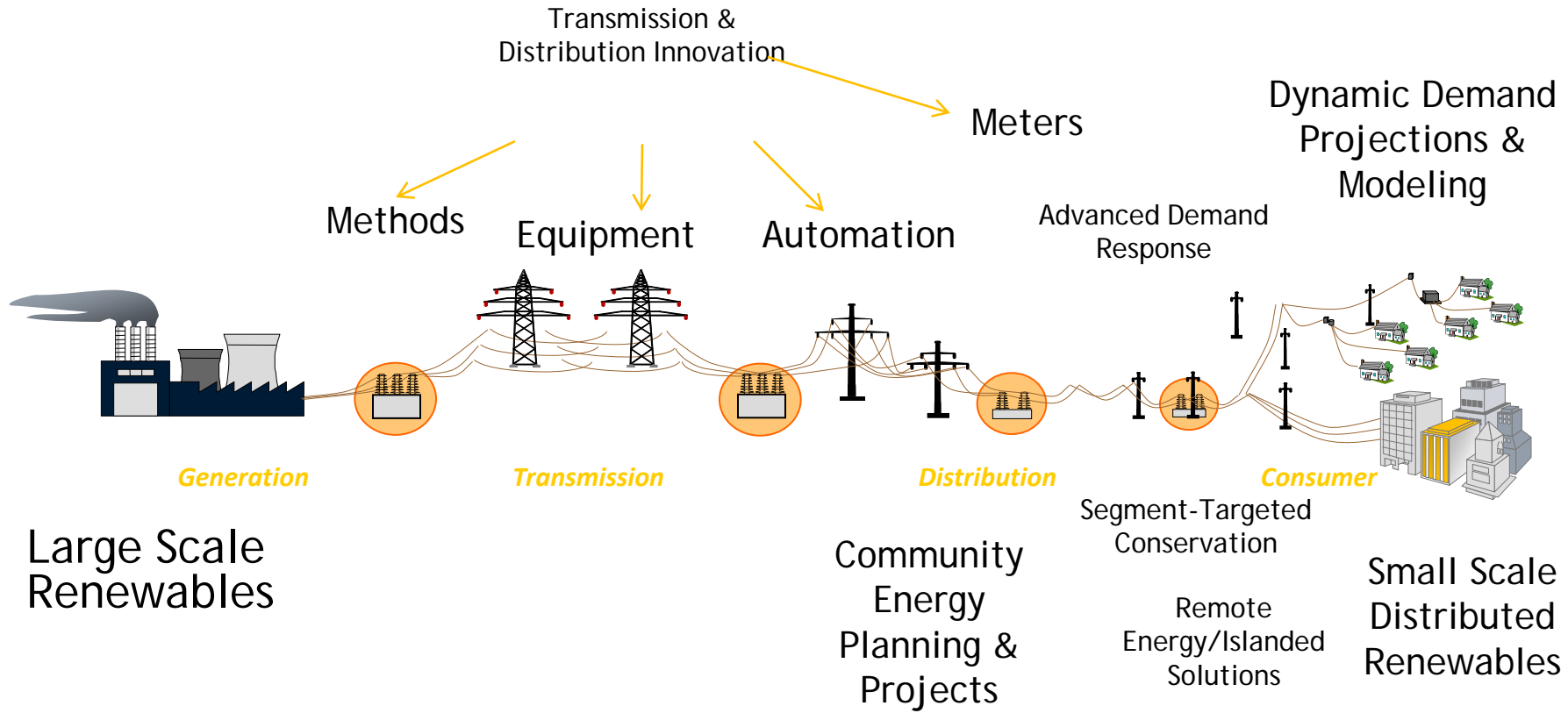
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Real Sustainability in Healthcare

March 2, 2010

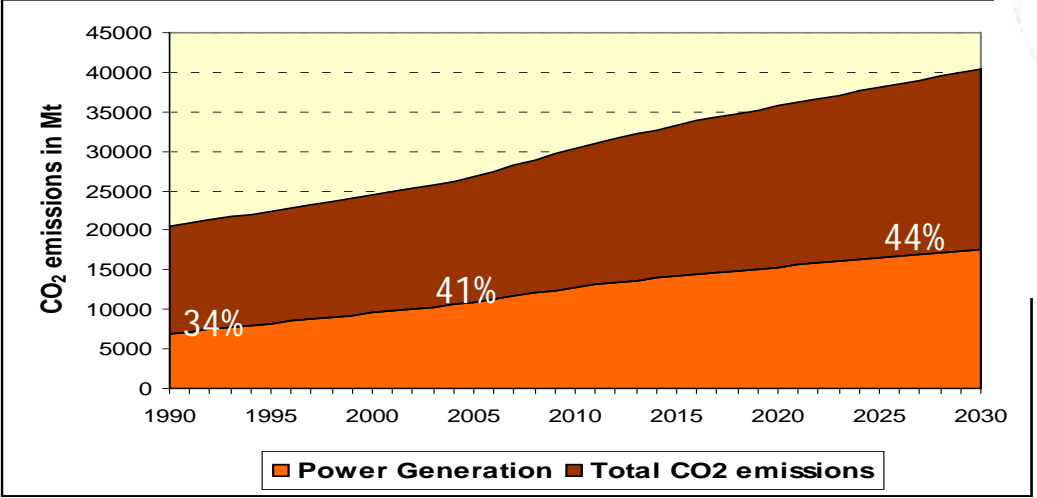
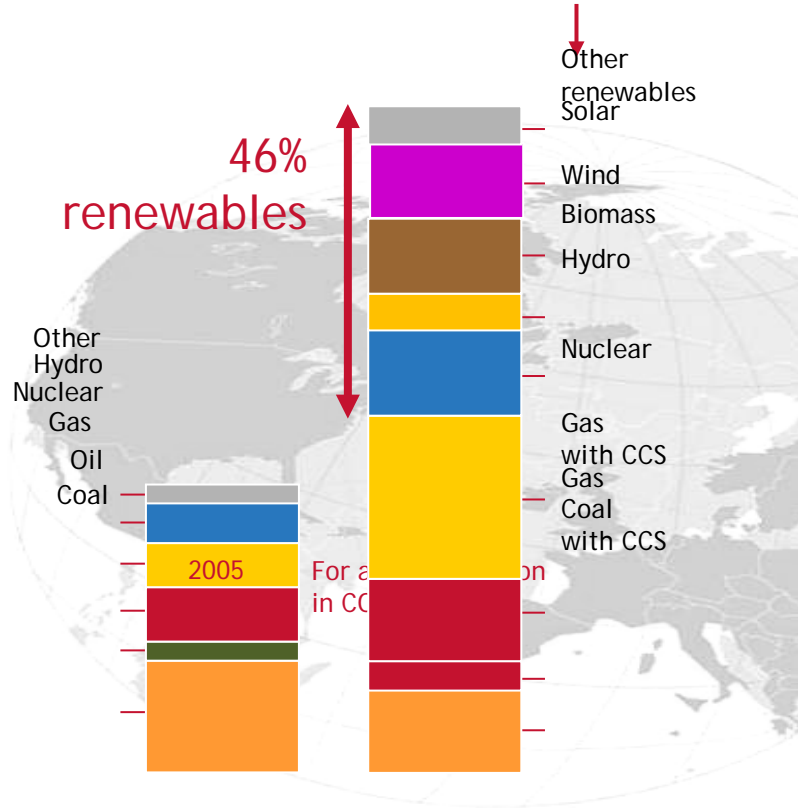
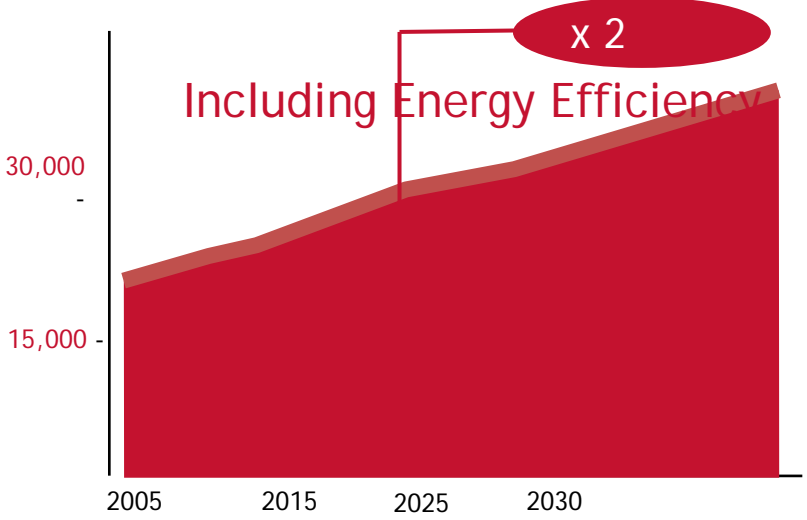


Fitting it in to the Traditional Industry





Emphasis on Energy Supply Solutions





Policy-Maker Enthusiasm Around Renewables

Environmental Concerns

- > Energy production patterns have to change to avoid catastrophe

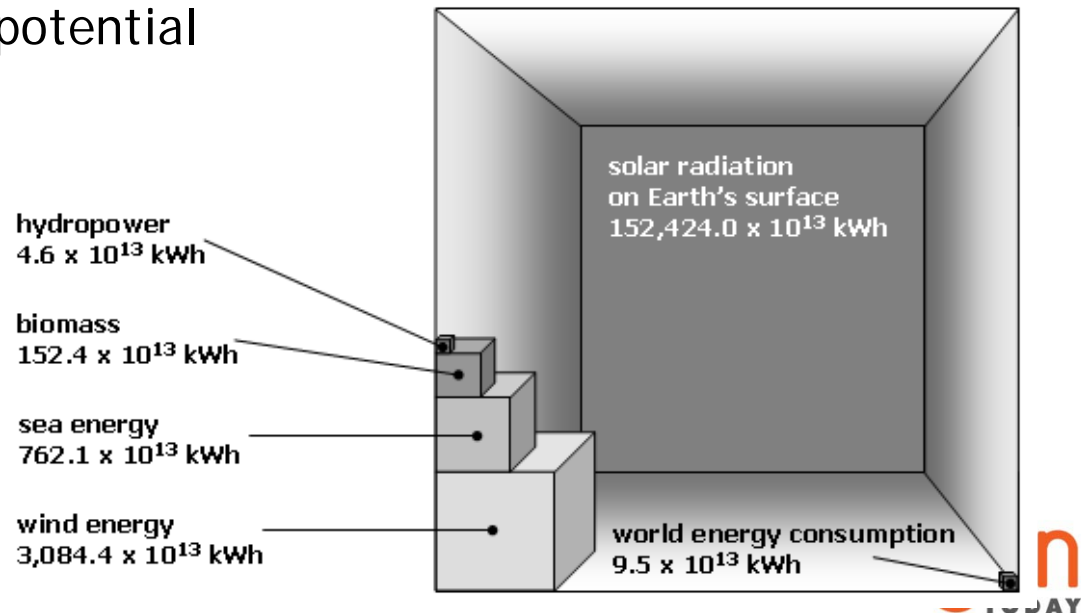
Energy dependence

- > Concern over dependence on exports from others

Energy demand

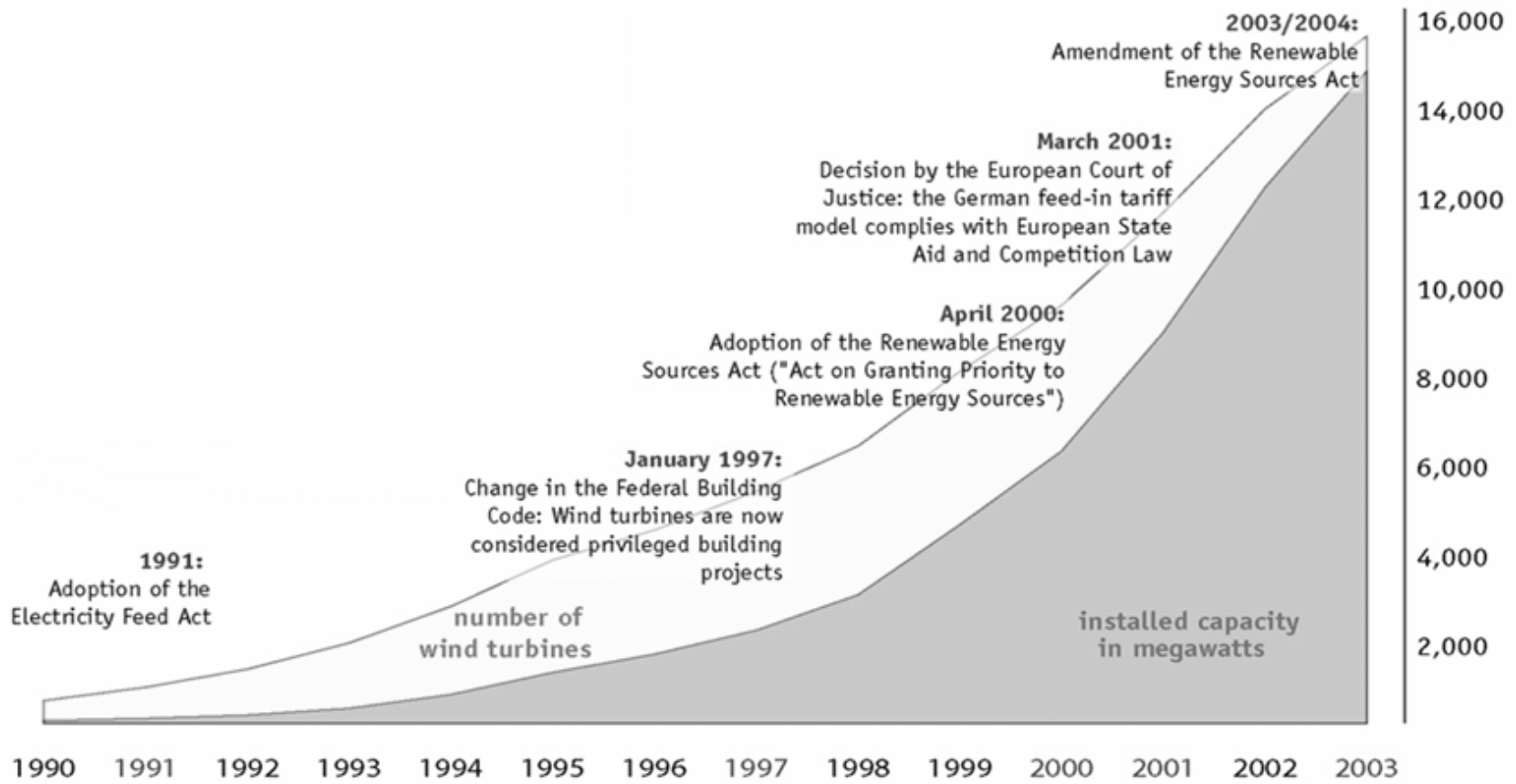
- > Increase installed electric power worldwide by 100% to 7200GW

Perceived Renewable potential





Germany Policy Evolution & Increase of Installed Wind Capacity



Source: Tkac, J. & Hvizdos, M., 2005

Maquette

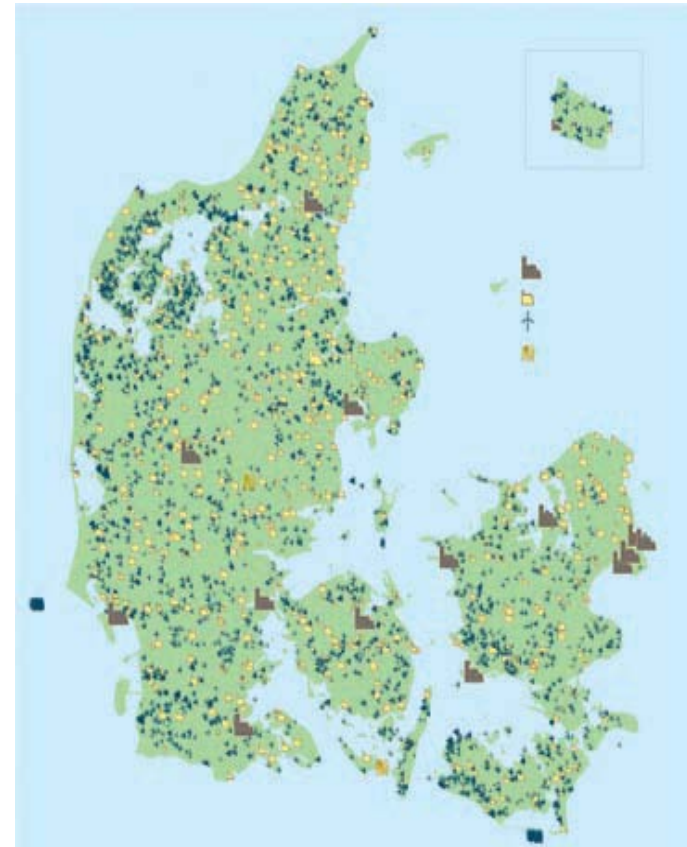


Learning from Big Changes in Other Countries

Denmark - 1980



Denmark - today





Multiple Approaches to Energy Efficiency

Lighting

- > LED diodes on exits
- > T12 replacements
- > CFL replacements
- > Occupancy or daylighting sensors
- > Bulb/ballast maintenance & monitoring
- > Bulb and maintenance standardization
- > Lighting “downtime”

Plug Loads

- > Efficient appliances with settings on
- > Vending machine misers
- > Vampire strips
- > Unplug

Water Conservation

- > Hot water tanks/pipe insulation
- > More efficient cleaning techniques
- > Low flow/dual flush



Multiple Approaches to Energy Efficiency

HVAC

- > Adjust thermometers to buildings zones/times
- > Check for systems in conflict
- > Regular HVAC maintenance
- > Clean and install modifications to improve heating/cooling system performance
- > Upgrade/replace old chillers and boilers

Building Envelope

- > Repair leaky windows & doors
- > Check caulking/weather stripping
- > Keep external doors closed in high/low temp weather
- > Check major appliances on regular basis for operations at intended energy levels