

Renewable Energies in the Electricity

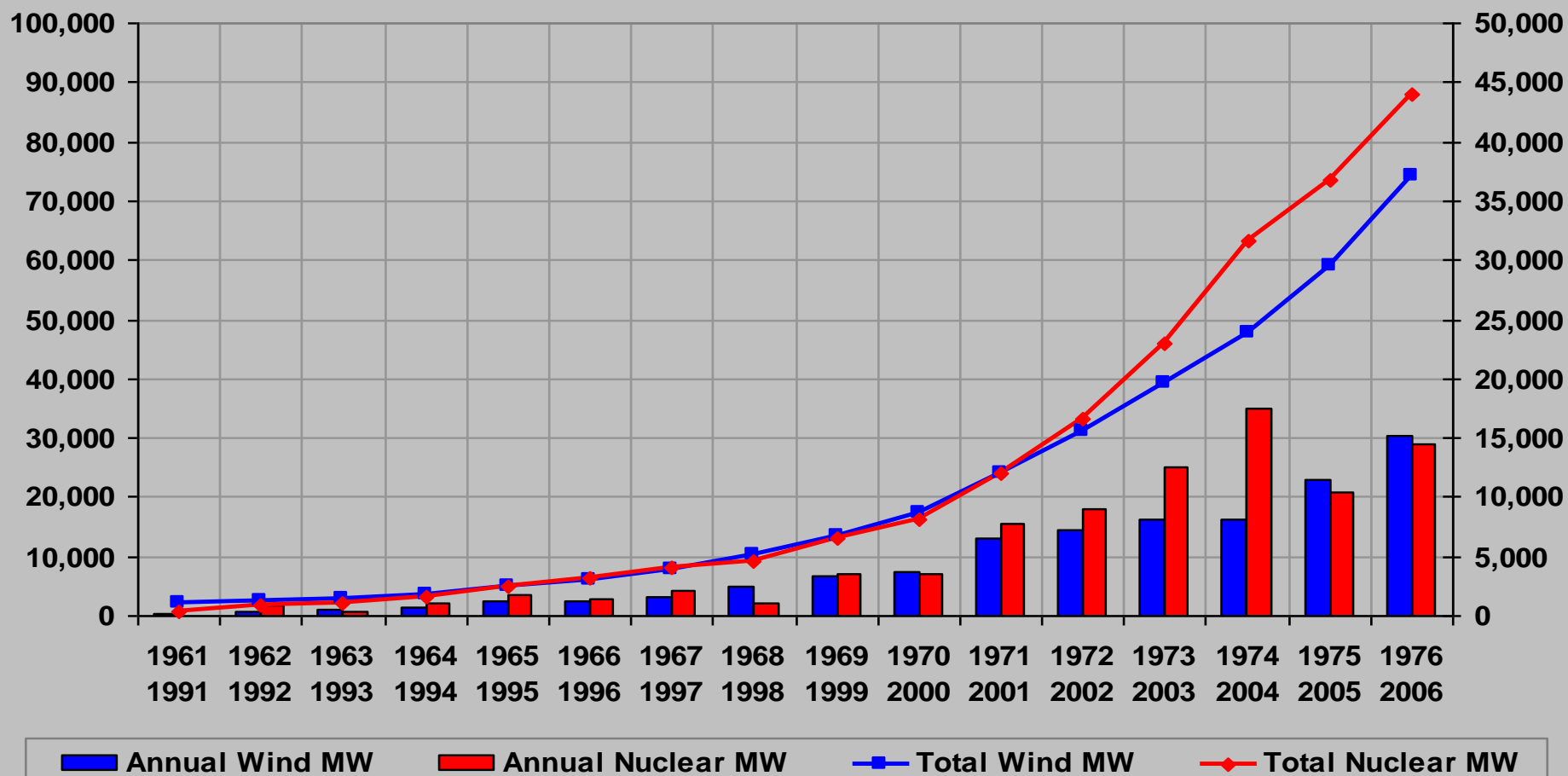
**Renewable Energy Policy Workshop
Charlemagne
30 January 2008**



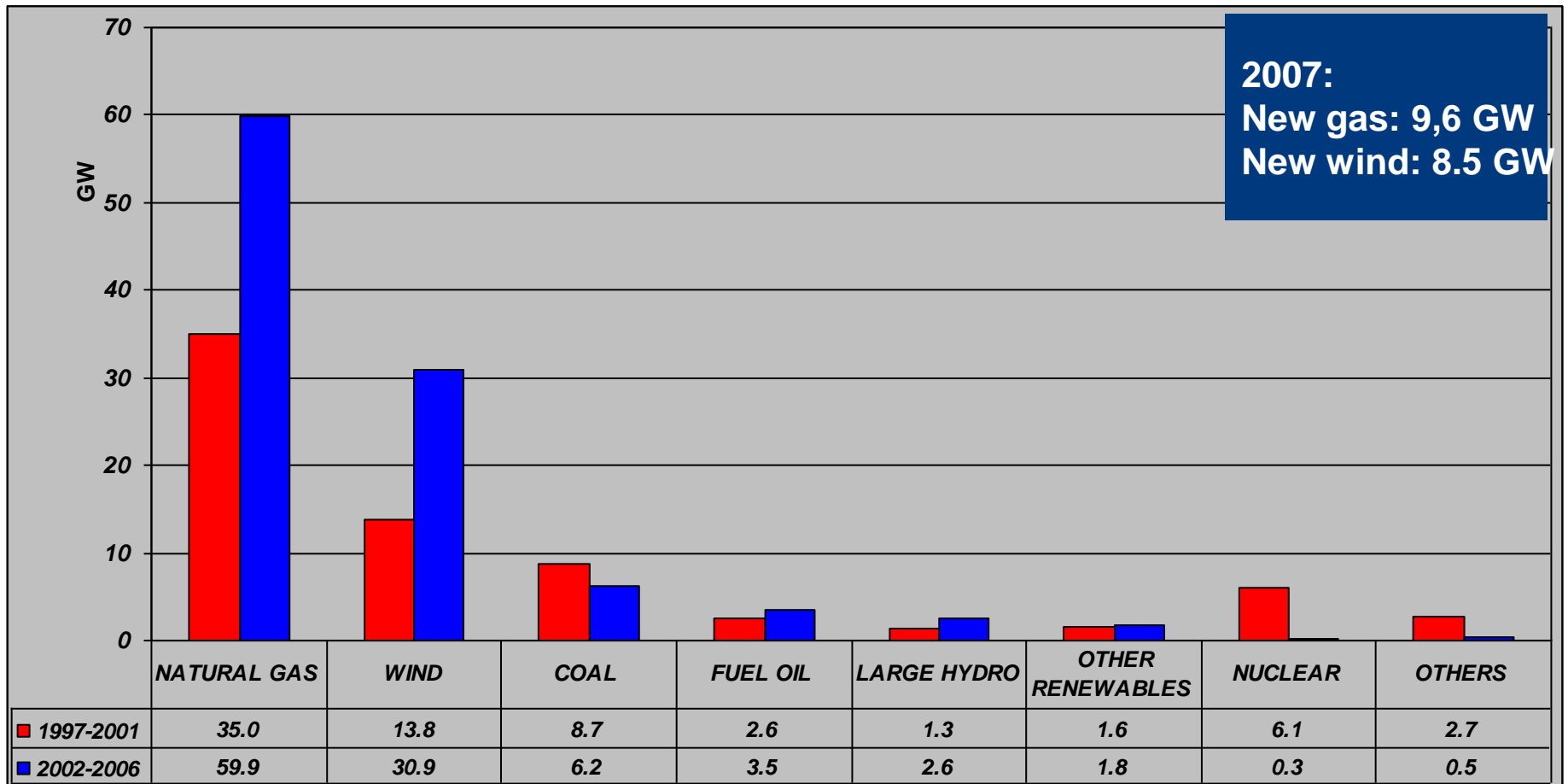
**Christian Kjaer
Chief Executive, European Wind Energy**

Nuclear and Wind – first 16 years

Nuclear 1961-1976 - Wind 1991-2006



EU power investments the past 10 years (GW)



The Commission: Wind Power's contribution 20% RE target



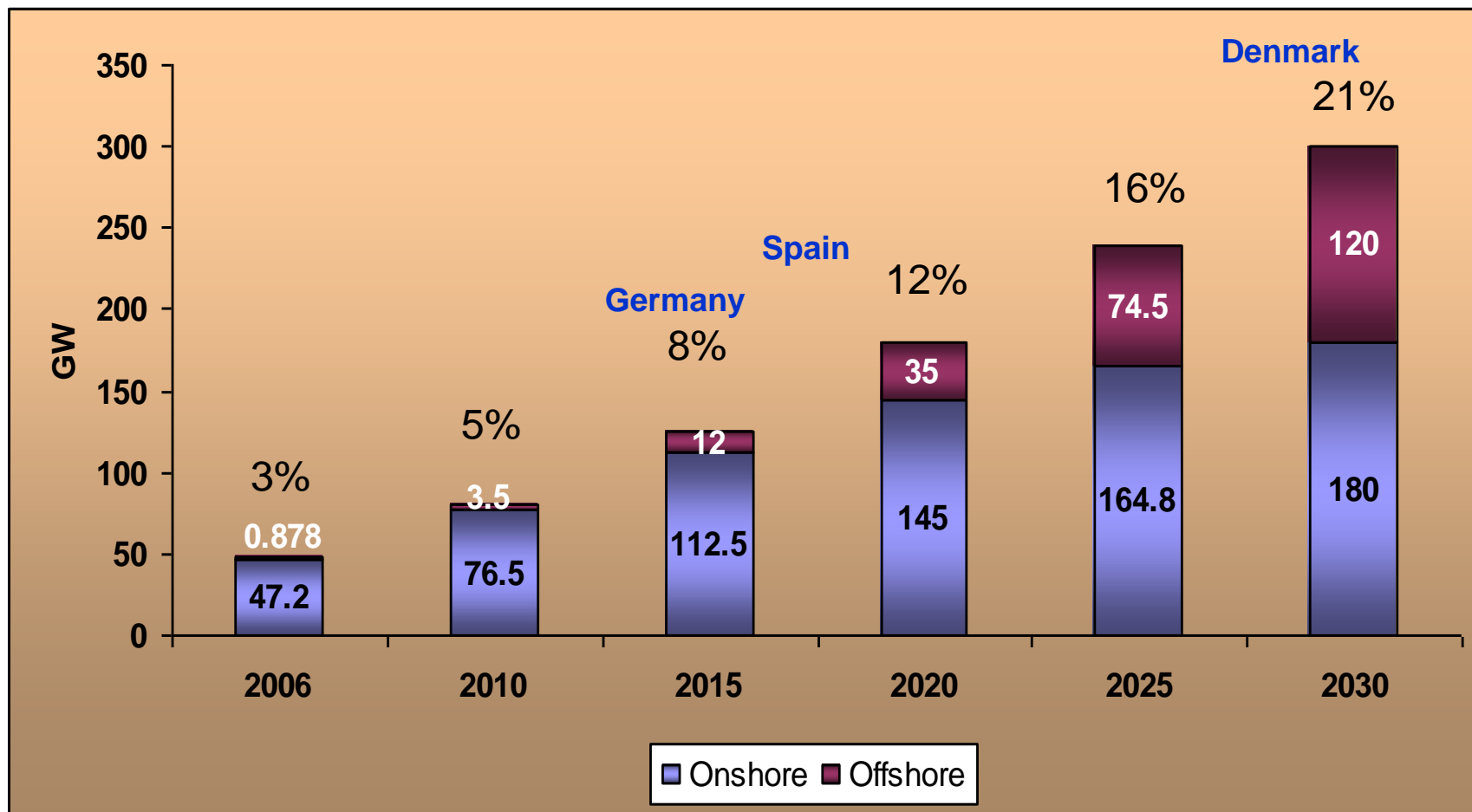
“Wind could contribute 12% of EU electricity by 2020. One third of this will more than likely come from offshore installations”
(Commission's Energy Package 10 January 2007)

20% target: How much renewable electricity and wind power?

- **2020: app. 34% renewable electricity is needed to reach the 20% target for renewable energy, according to the Commission**
- **Today: 15% incl. 10% large hydro and 3% wind**
- **Excluding large hydro the share of renewable electricity must increase from 5% to app. 25%, in 14 years depending on power demand**
- **From 3% (50 GW) to 11-14% (180 GW) wind power in 2020 (depending on 2020 demand)**
- **Offshore wind power contribution to EU demand by 2020¹ between 1.8% (20 GW) and 4.5% (50 GW)**
- **Without offshore wind power we will not reach the target**
- **Without infrastructure we will not meet the target**

¹ EC baseline scenario EU demand (2020): 4163.7 TW/h

Wind Energy in EU (2006 – 2030) and electricity share



We are already paying the cost of inaction

- **For every \$20 increase in the price of oil, the cost of Europe's gas imports rises by €15 bn annually, given the unfortunate link between oil and gas prices**
- **The increase of oil prices over the past few years from \$20 to \$80 thus adds €45 bn. to EUs annual gas import bill**
- **For comparison, EU Member States invested €11 bn. in wind turbines in 2007**



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THE EUROPEAN WIND ENERGY ASSOCIATION

Turn the climate and energy challenge into
an opportunity in the 21st century energy
battle

**Follow a strategy of developing, deploying
and exporting renewable energy
technology to a world that, few years from
now, cannot afford to live without it.**

Thank you very much for your
attention



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