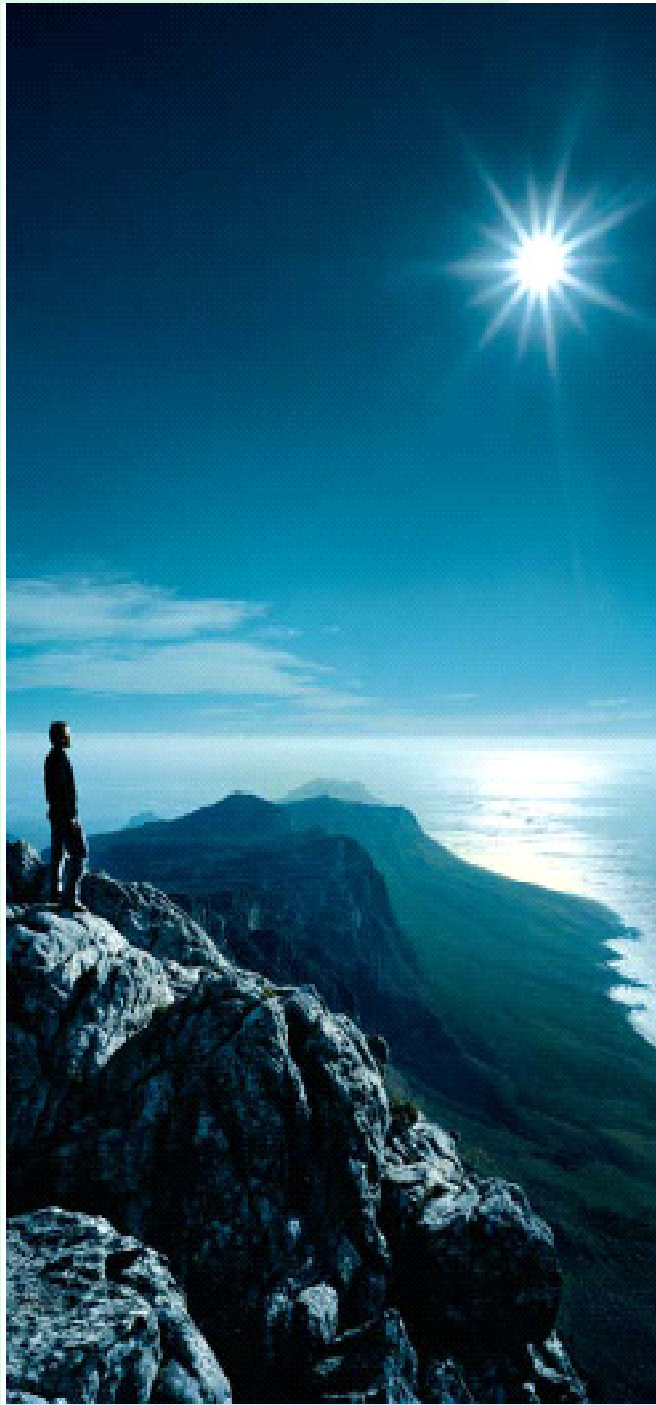

TOTAL E&P BORNEO B.V.



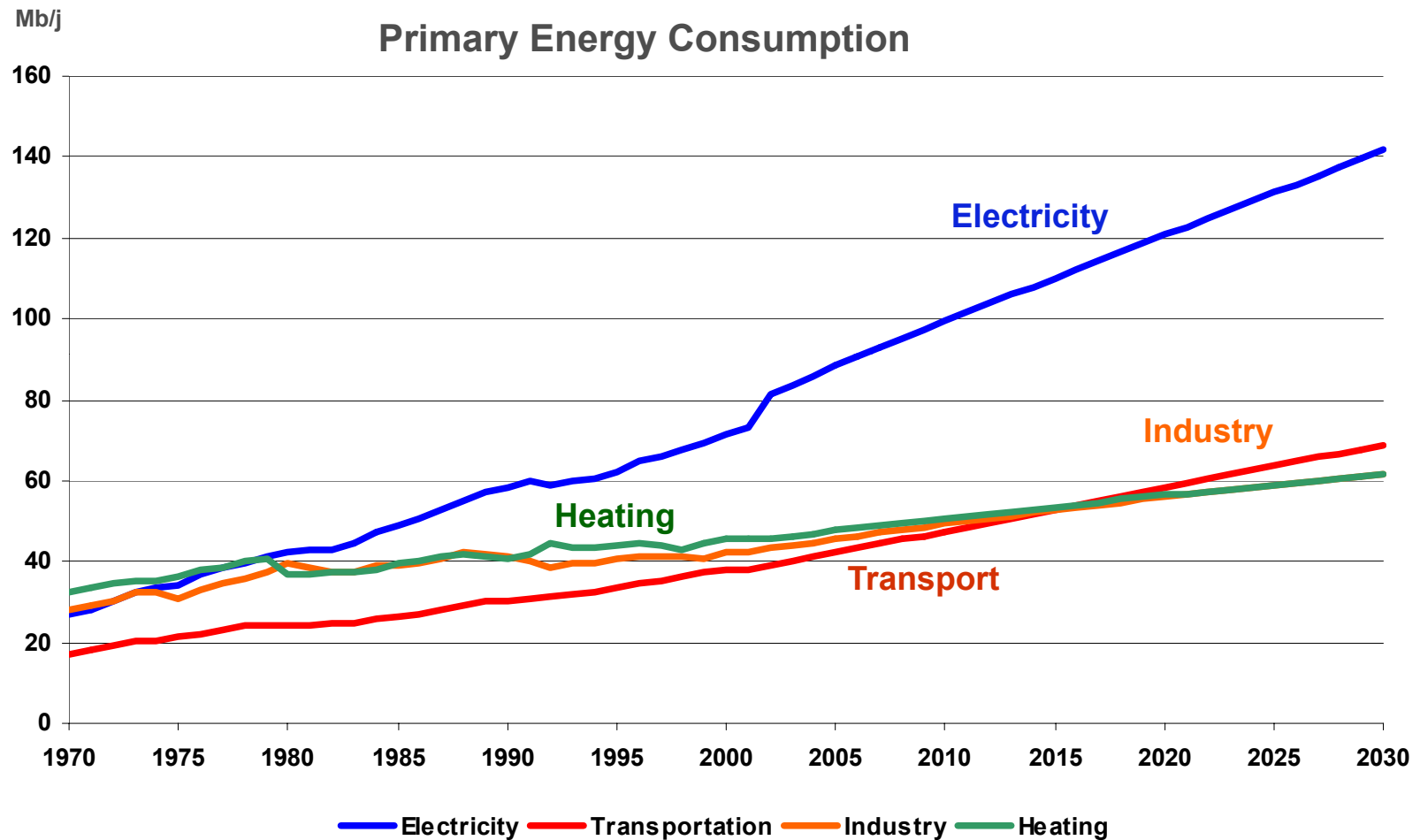
TOTAL



ENERGIES: LOOKING AHEAD

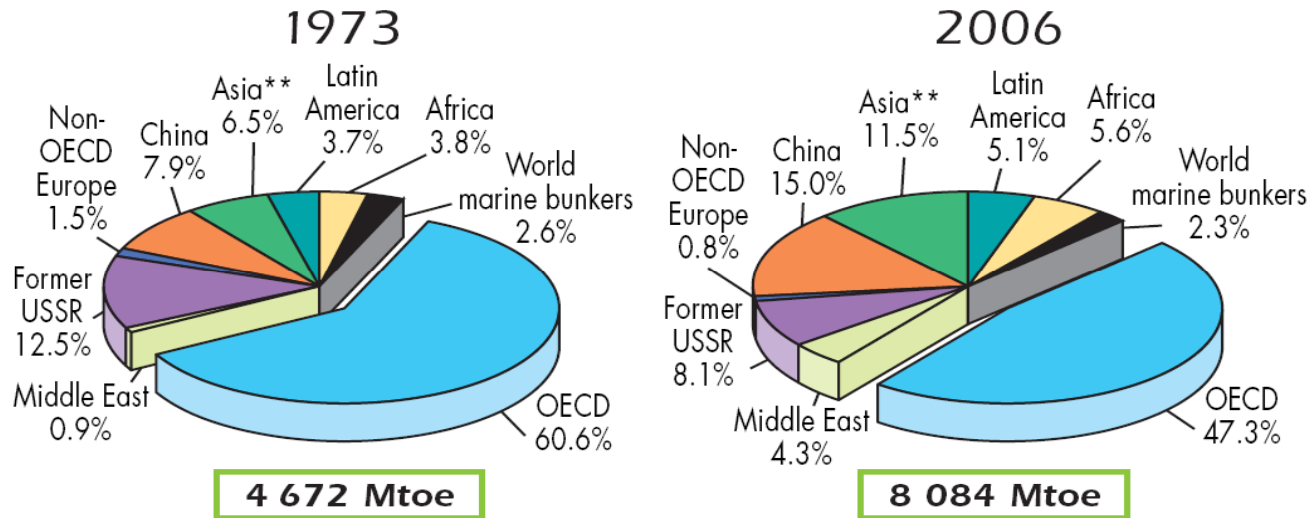
Energy

Different Uses At Different Development Stages

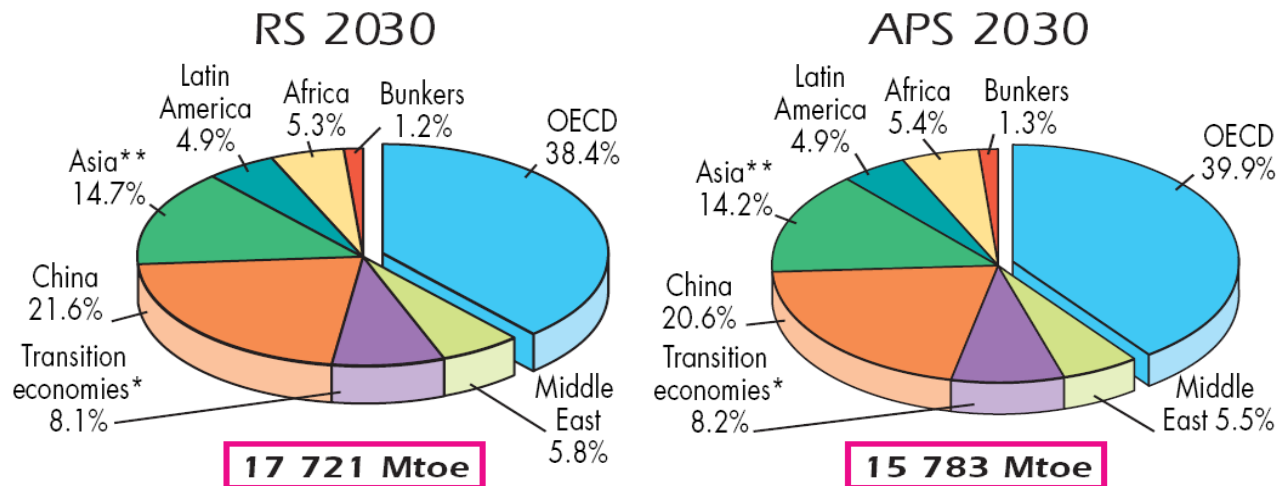


Not the same issues for stationary uses, electricity and transport

Market Demand Continues to Increase



*Prior to 1994 combustible renewables & waste final consumption has been estimated.
 **Asia excludes China.



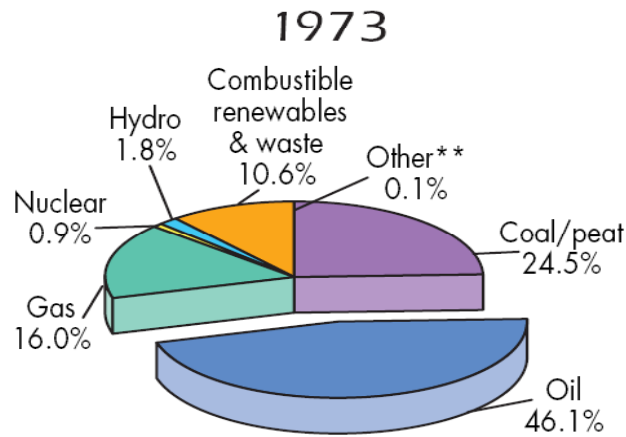
*Includes Former USSR and Non-OECD Europe.
 **Asia excludes China.

RS: Reference Scenario
 (based on current policies)

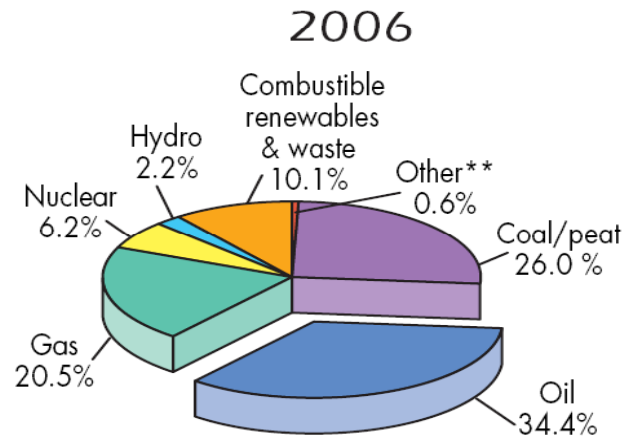
APS: Alternative Policy Scenario
 (based on policies under consideration)

Energy Sources - Reality

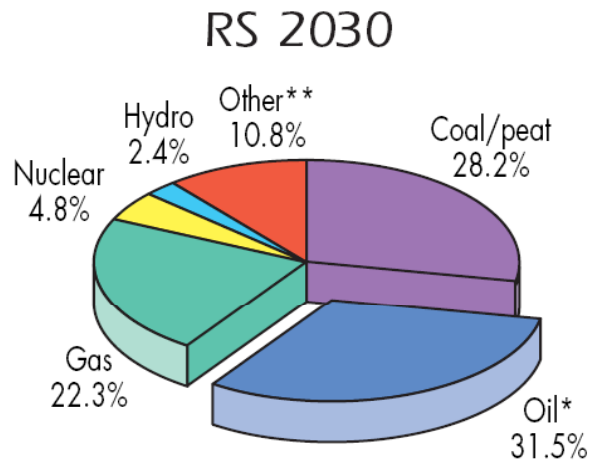
Oil And Gas Will Remain the Dominant Energy Source



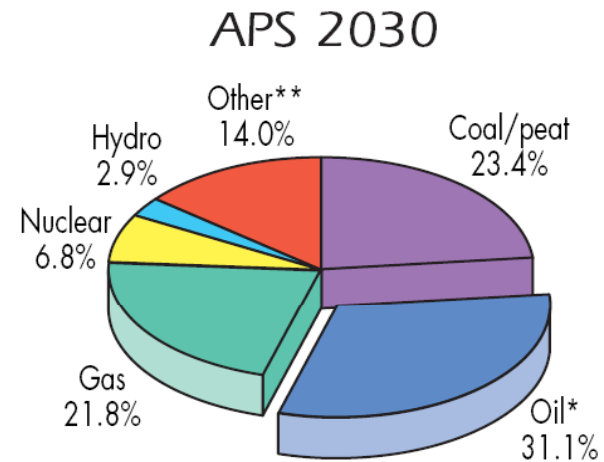
6 115 Mtoe



11 741 Mtoe



17 721 Mtoe

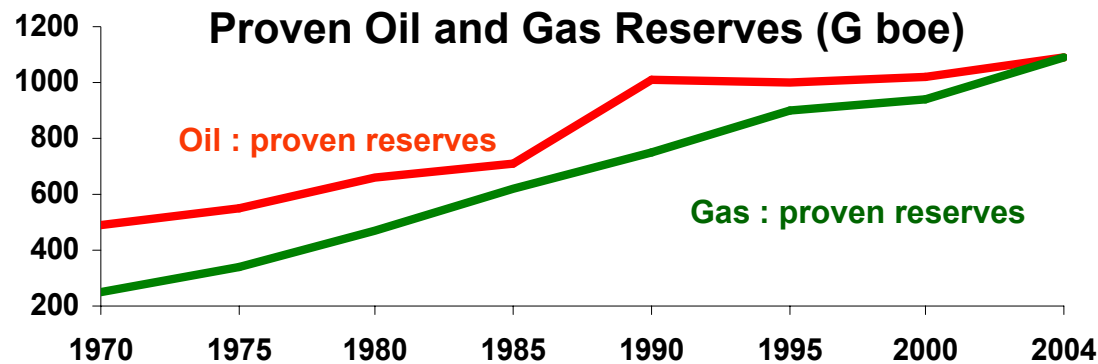


15 783 Mtoe

APS: Alternative Policy Scenario
(based on policies under consideration)

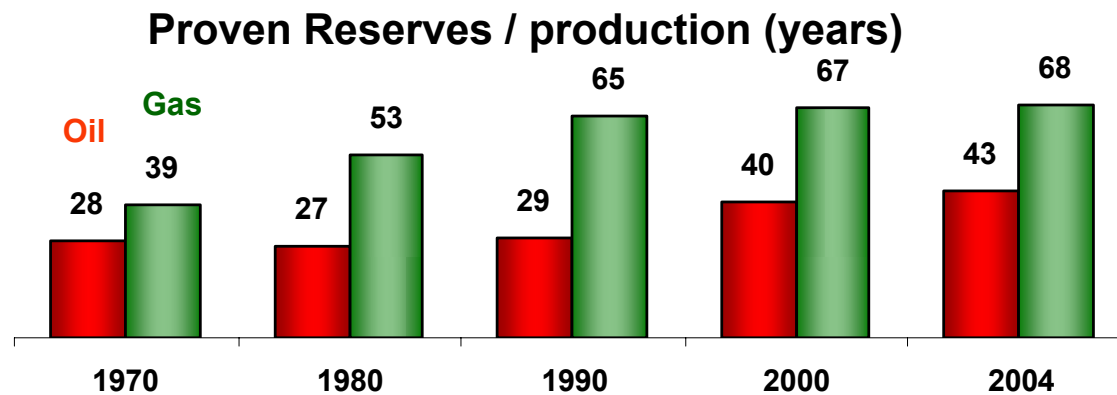
RS: Reference Scenario
(based on current policies)

Oil & Gas Will Retain Their Dominance Due To New Technologies And Additional Investments . . .



Oil and Gas Reserves:

- **Proven:** > 2000 G boe
- **Additional:** >1000 G boe



Longer reserves for gas, but with a lower production

. . . which will be applied in an energy industry that already has a profound scientific and experiential knowledge base

The Challenge for the Future

DIVERSIFYING RESOURCES AND PROMOTING EFFICIENCY TO MEET INCREASING DEMAND, WHILE COMBATING CLIMATE CHANGE

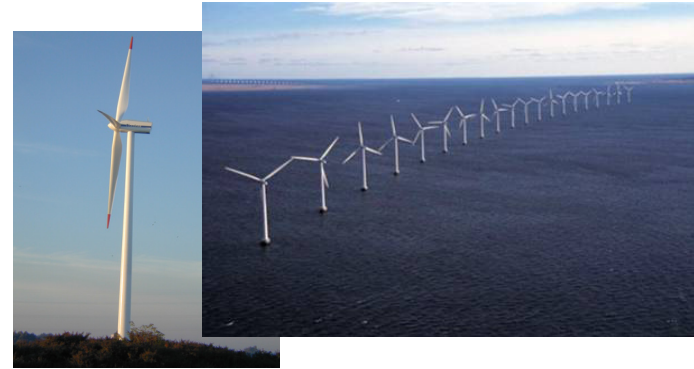
- 4 main areas of focus:
 - ***Identifying new energy sources***
 - ***Developing renewable energies***
 - Pushing back the limits of fossil fuels through technological innovation
 - Enhancing energy efficiency

Different Types of Renewable Energy

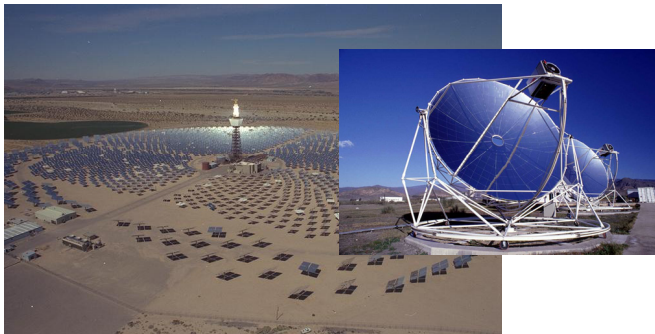
Photovoltaic



Wind



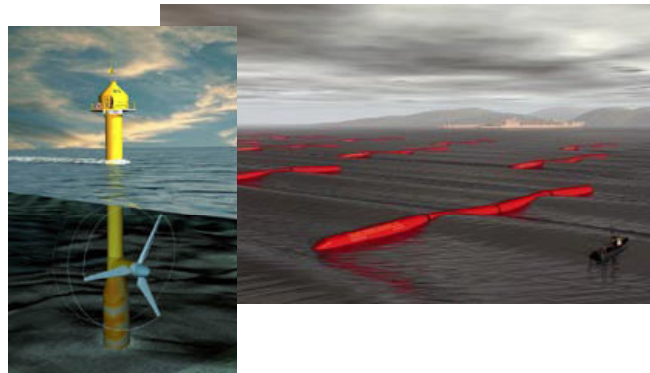
Solar Thermal



Biomass - Biofuels



Wave & Tide



Solar



TOTAL

APPLICATIONS

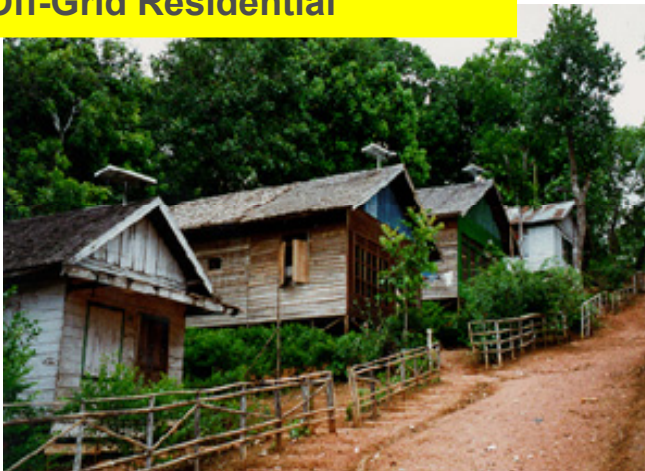
Off-Grid Industrial



Consumer



Off-Grid Residential



On-Grid Residential



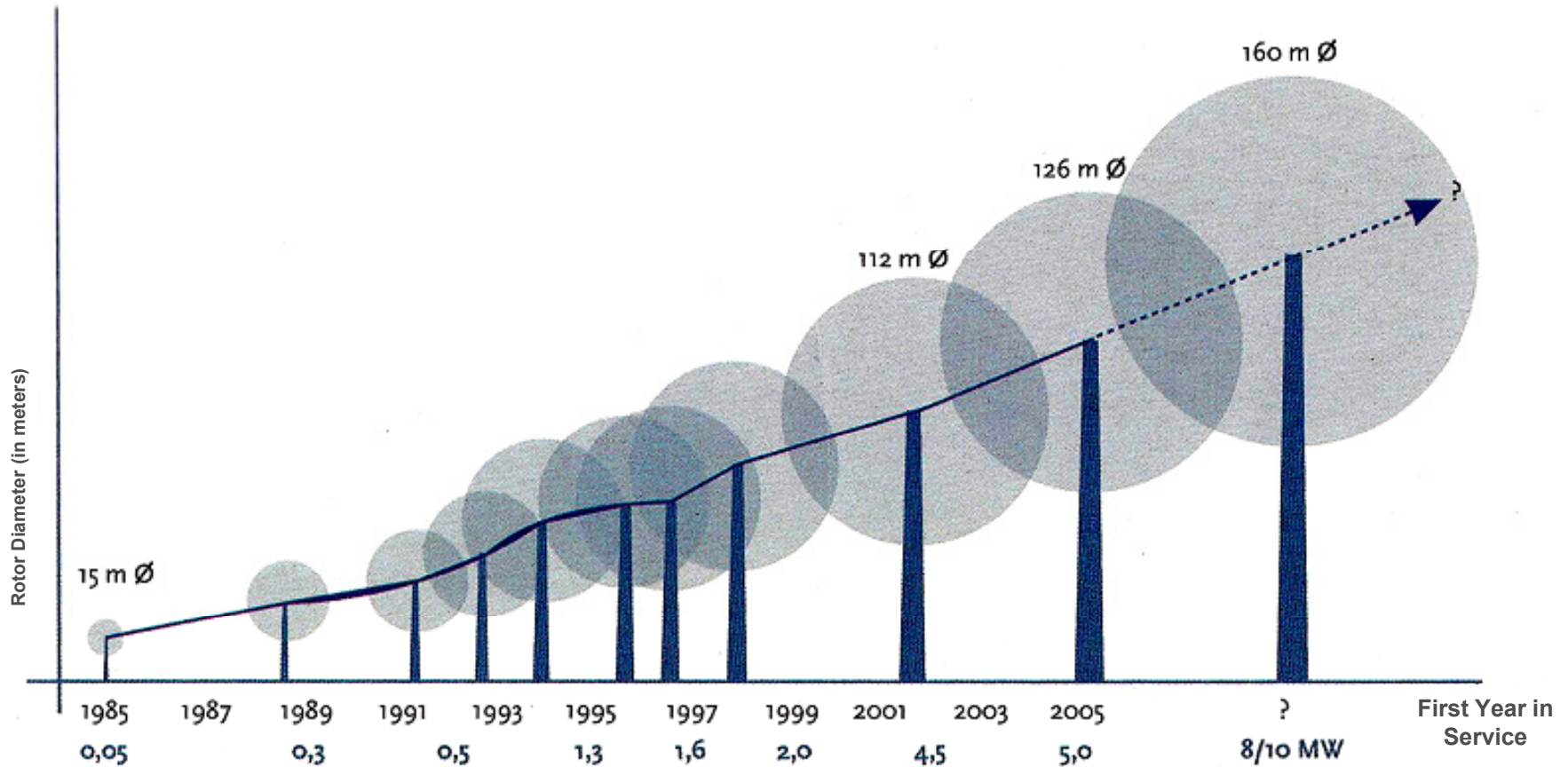
Wind



TOTAL

Spectacular Progress for Windmills

Evolution of Wind Turbine Size and Power



SOURCE : JOS BEUSKENS, ECN

Global Wind Power Market Trends ⁽¹⁾

- ▶ Significant growth, expanding at about 30% per year since 1994.
- ▶ World wide, installed capacity has risen from 10,000 MW in 1998 to 55,000 MW by the end of 2005.
- ▶ In Europe, where most of the world's wind power installations are located. Germany as a leading sector with nearly half of the total installed power (18,4000MW).
- ▶ India is a prominent player in the wind power sector with an installed capacity of about 2,500MW at the end of 2005 and a stated ambition of doubling that capacity by 2010
- ▶ China recently announce its own wind power development plan with a target of 6,000MW by the end of 2010

(1) TOTAL University Publication : Climate Change, The TOTAL Roadmaps, June 2006

Marine Energy



TOTAL

Marine Energy and TOTAL

Emerging technologies - long term potential

Wave Power:

- 10% share in a project
- Located on the north coast of Spain
- Technology: Ocean Power Technology
- Partnership with Iberdrola



Tidal Power:

- 21,5 % share in Scotrenewables
- Marine Power (based in Orkney, Scotland)
- Development of an tidal electricity production system
- Technology sponsored by DTI and Carbon Trust



In Conclusion



TOTAL

THE WAY FORWARD

