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# **Changing the Face of UK Energy: the Challenge for Securing a Genuinely Sustainable Energy Future**

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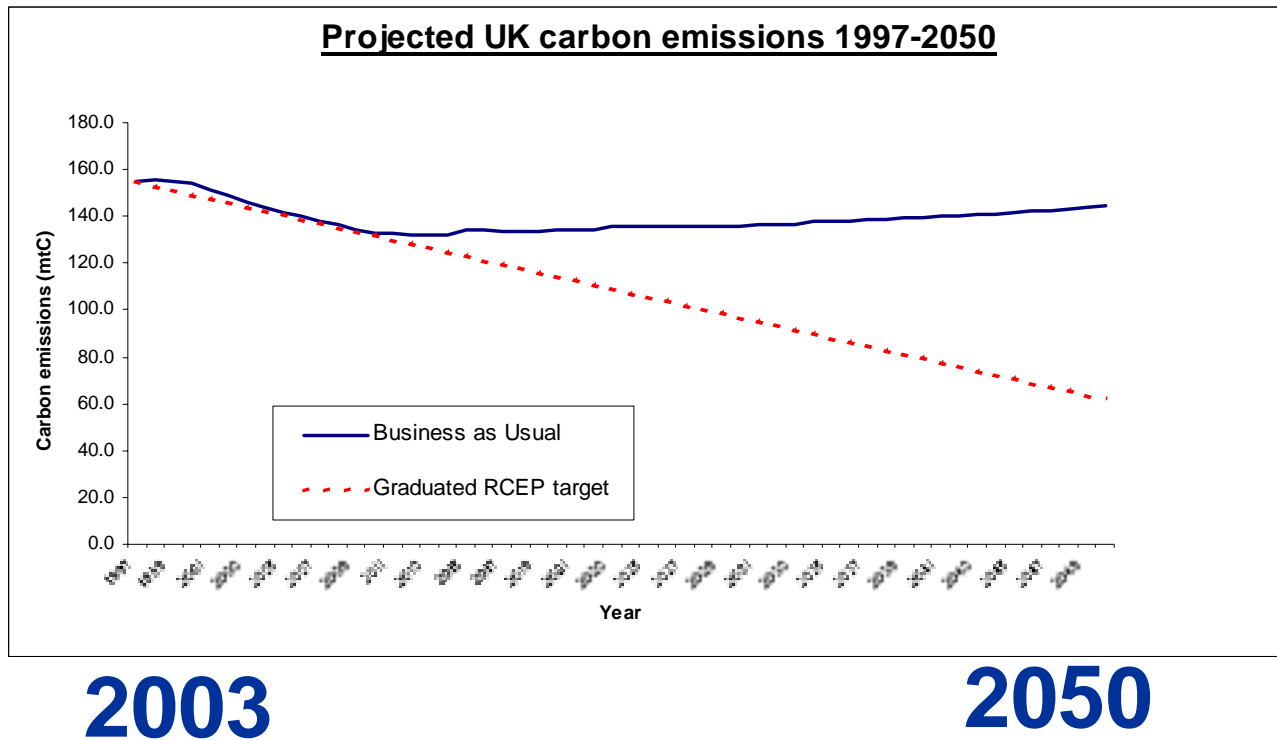
**11 December 2003**

# Cleaner, Smarter Energy: policies for a low carbon future





# The Carbon Challenge



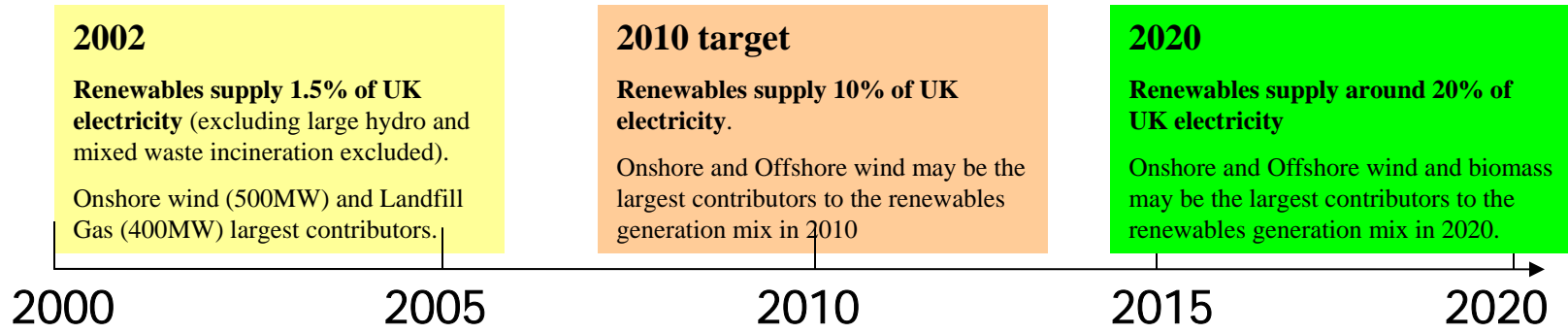
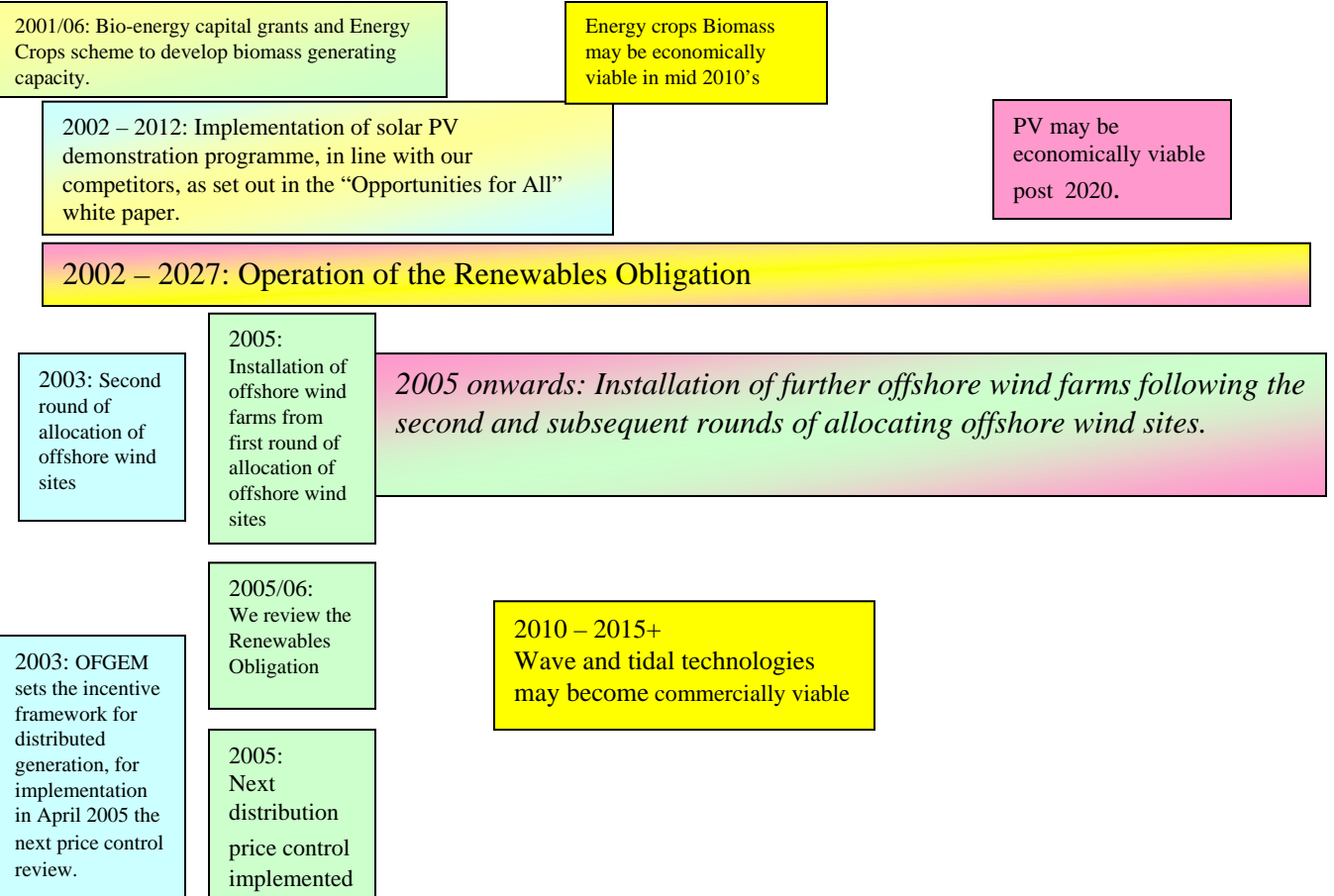
# the new goals of UK energy policy

- putting ourselves on a path to 60% cuts in CO<sub>2</sub> by 2050
- maintaining reliability of energy supplies
- promoting competitive markets in the UK and beyond
- ensuring that every home is adequately and affordably heated

**Aim to achieve these together**

# The Renewables Timeline

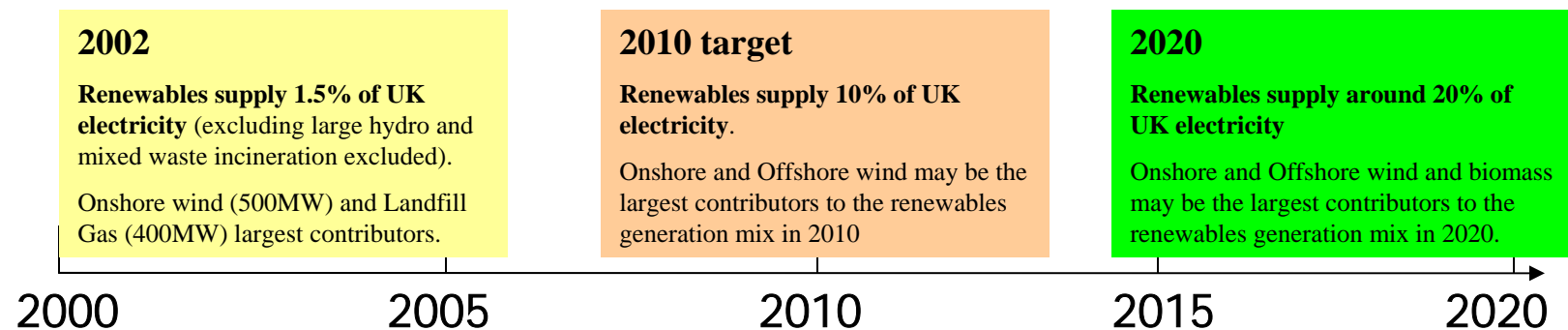




# 2002

**Renewables supply 1.5% of UK electricity**  
(excluding large hydro and mixed waste incineration excluded).

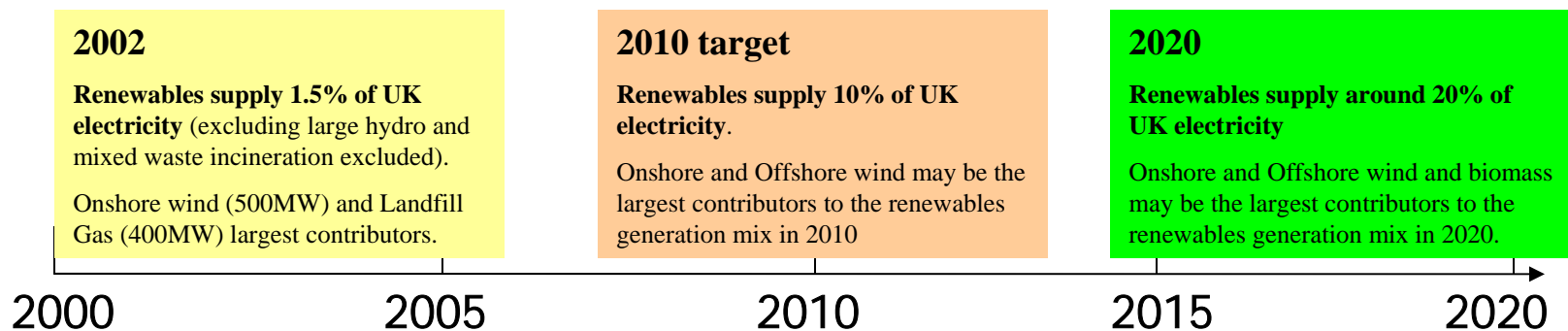
Onshore wind (500MW) and Landfill Gas (400MW) largest contributors.



## 2010 target

**Renewables supply 10% of UK electricity.**

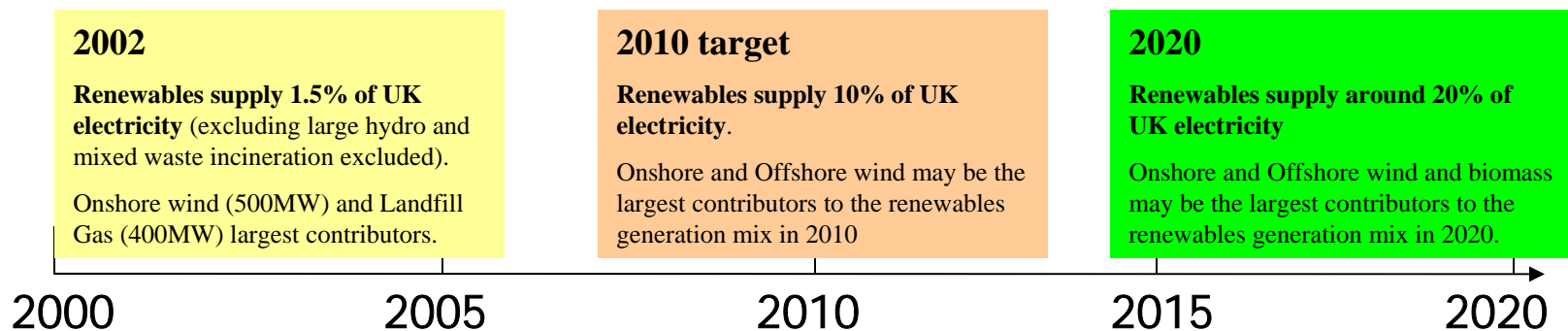
Onshore and Offshore wind may be the largest contributors to the renewables generation mix in 2010



**2020**

## Renewables supply around 20% of UK electricity

Onshore and Offshore wind and biomass may be the largest contributors to the renewables generation mix in 2020.



# Renewables Strategy

- legislation
- financial support
- technological support
- business support
- partnership

# Legislation

- the Government will maintain the level of support provided by the Renewables Obligation until 2027
  - Obligation £1b per year in 2010

# Renewables Obligation

- Licensed suppliers must source an ever increasing amount of their electricity supply from renewable sources
- Started in 2002 at 3%, will reach 10.4% by 2010/11
- Just announced an increase in the RO and new target will be 15.4% by 2015/16
  - Consultation will follow

# Financial Support

- Capital grants
  - Offshore wind
  - Biomass
  - PV
- Research, development & deployment
- Community projects

# Technological support

- Programme of Research, Development & Deployment
  - advanced biomass
  - wave / tidal
    - Marine Test Centre Orkney (open this year)
    - Ocean Power Delivery
  - hydrogen / fuel cells

# Business support

- Renewables UK
  - UK content of major contracts
  - gap analysis
  - jobs – baseline established
  - major investors (Invest UK)

# Partnership



# Renewables Advisory Board

- The Renewables Advisory Board is an independent non-departmental public body sponsored by DTI, which provides advice to Government on a wide range of renewable energy issues on request and may also offer other such advice to the Government, as it considers appropriate.
- The Board comprises twenty six members and is chaired by the Minister for Energy at the DTI.
- Working groups established
- RAB reported in December, 2003

# RAB Work Groups

Network infrastructure

Planning

Communications

Jobs

Finance

Innovation



## Next steps

- announcement of awards of second round of offshore licences – December 2003
- consultation response on technical amendments to Obligation
- consultation on new planning guidance
- continued policy development on link between grid and renewables
- conference for financial sector
- publish supply chain gap analysis

# Issues

- Connecting renewables
  - distributed generation
  - transmission
- Planning
  - PPS 22
  - MoD – guidance / advice / research
- Public attitudes

## Scenarios and Wind

- Expect wind to play a major part
  - Maybe 80% of 2010 target
    - 8GW – onshore and offshore
  - Possibly 70% of the 2020 aspiration
- Can it be done?
- The wind market sector worldwide has grown on average by at least 30% year on year

# Consequences for the UK Wind Market

- New market conditions has accelerated development
- Current interest in the UK is as follows
  - Onshore 10 GW
  - Offshore
    - Round 1 1 GW
    - Round 2 6 GW

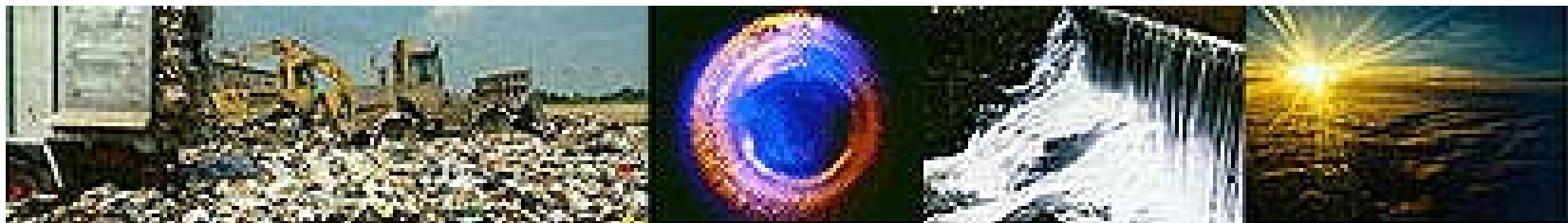
# Opportunities

- The support measures announced support another 12 GW of renewable projects to compete to generate ROCs
- Investment opportunities
  - Manufacturing
  - Owner

# Future



- An energy mix
- Renewables an important part of the solution
- Energy efficiency important as well
- Issues to be accommodated
- Government committed to the future



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IT'S ONLY NATURAL  
THE VISION



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