

# From Challenge to Opportunity

**A changing climate for energy policies**

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# From Challenge to Opportunity

## A changing climate

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- **The energy challenge**
  - ◆ Dirty, expensive, insecure - unsustainable
- **The policy response**
  - ◆ Innovation, market conditioning, diplomacy
- **The transition**
  - ◆ From strengths to answers
- **The opportunities**
  - ◆ Towards the new winners
- **International collaboration**
  - ◆ An invitation and a necessity

# The Energy Challenge

**‘our energy future looks dirty, expensive and insecure ...’**

*Claude Mandil, Executive Director IEA*

- **Dirty**
  - ◆ **Climate challenge**
  - ◆ **Local emissions**
  - ◆ **Bio diversity**
  - ◆ ...
  
- **Expensive**
  - ◆ **Fierce competition for resources**
  - ◆ **Vast investments for infrastructure**
  - ◆ ...
  
- **Insecure**
  - ◆ **Resource diversification proves ‘challenging’**
  - ◆ **Oil and gas resources from ‘instable’ regions**
  - ◆ **Fierce competition for resources**
  - ◆ ...

# The Policy Response

**‘more efficient, more renewables, cleaner fossil’**

*From the Energy Report, 2005*

- **Content**

- ◆ Efficiency as pre-requisite
- ◆ Renewable energy as key technology
- ◆ Clean fossil as necessity

- **Instruments**

- ◆ Innovation
- ◆ Market conditioning, regulation, investment conditions
- ◆ Diplomacy

- **The philosophy**

- ◆ Transition policies

# Energy Transition (1)

## Where to start

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- An energy transition is both **desirable** and inevitable
- Organize the transition as a **public-private partnership**
- An energy transition can be viewed as costly, but will be an **economic opportunity**
- Focus on the opportunity, use available **strengths** and be ambitious
- Use 'characteristics' of location and economy
  - ◆ A **gas**-country
  - ◆ A **windy** coastal region
  - ◆ A **logistical** hub
  - ◆ Home **agro-** and **chemical** businesses
  - ◆ World leader **efficient industries**
  - ◆ Energy **knowledge**
  - ◆ ...

## Energy Transition (2)

### Where to go

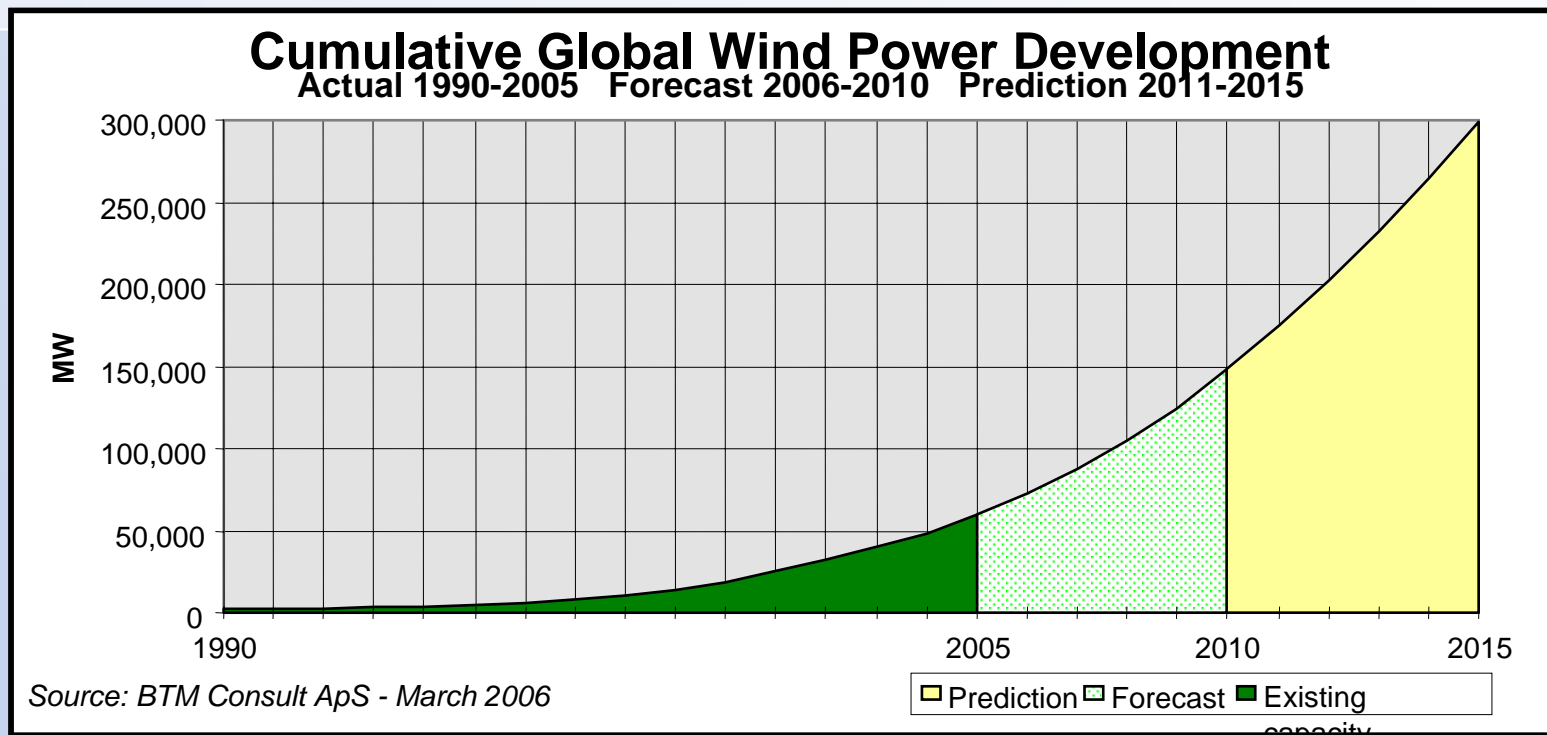
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- **New gas** – from ‘gas country’ to most clean and innovative gas economy of the world
- **Green resources** – from a strong agro and chemical position to ‘world player’ w.r.t. green resources
- **Chain Efficiency** – from efficient industries to an efficient economy
- **Mobility** – from ‘trendsetter logistics’ to trendsetter ‘sustainable mobility’
- **Buildings** – living as ‘driver’ for a new energy future
- **Renewable energy** – from a costly solution to economic motor.

# The opportunities

## There's something for everyone ...

- The energy future will need vast investments, a *'bounty'* for businesses and investors alike
- The energy future will need unprecedented creativity – a *'bounty'* for scientists and innovative companies
- The energy future knows no boundaries – a *necessity* for international collaboration



# International Collaboration

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- Policies are international, markets are worldwide, knowledge is universal.
- Our energy future depends on foreign capital and knowledge
- Our knowledge and capital can benefit the worldwide energy transition
- From this spirit of collaboration –
  - ◆ *We wish you a fruitful exploration of opportunities for industrial and scientific collaboration. Welcome!*