



Towards
a low carbon
future

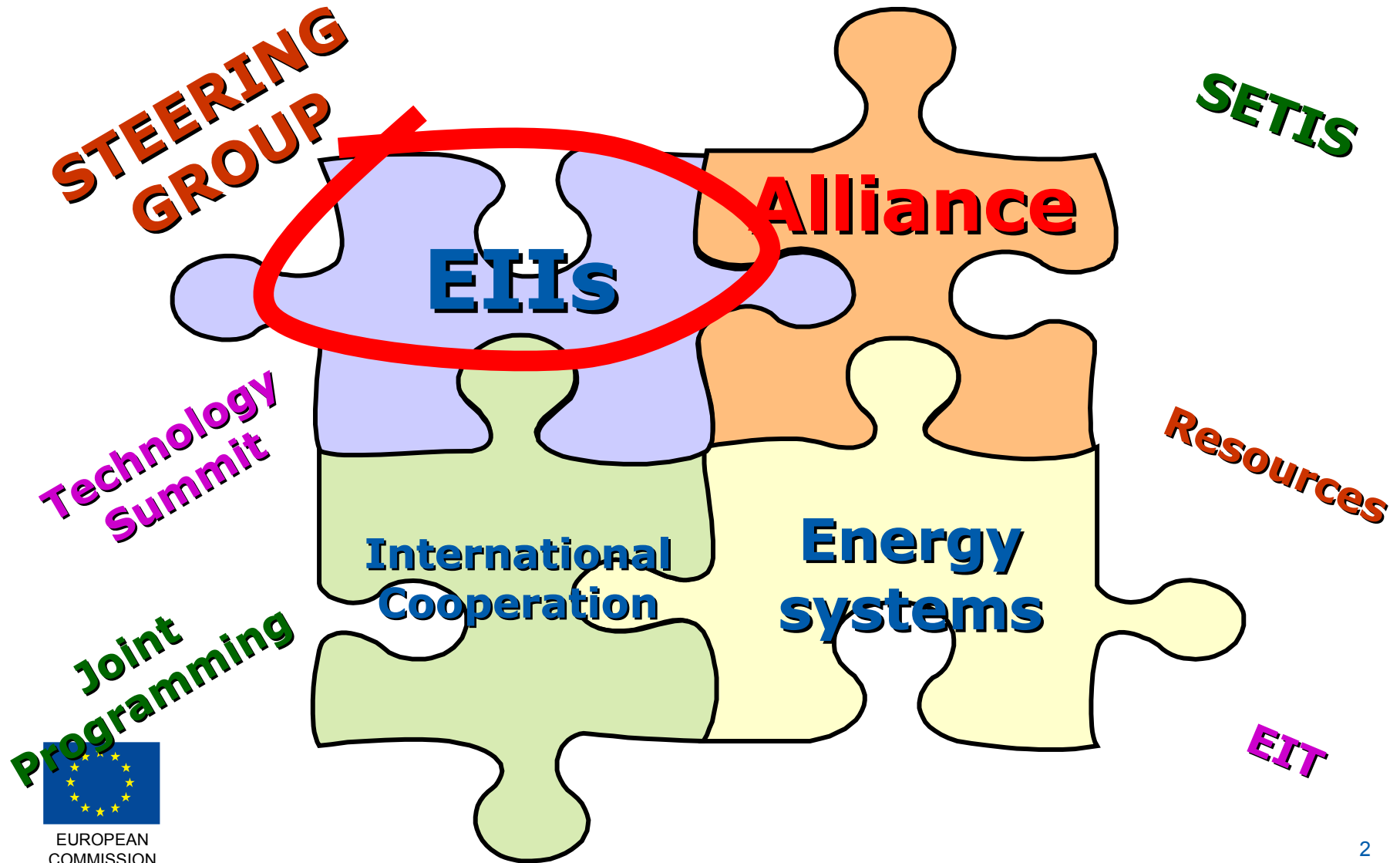
SET Plan

Industrial Initiatives



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SET-Plan lines of action



● Proposed priority initiatives

Solar Europe (PV and CSP)

- European Wind
- Bio-Energy Europe
- European CO₂ capture, transport & storage
- European electricity grid
- Sustainable nuclear fission (gen-IV)
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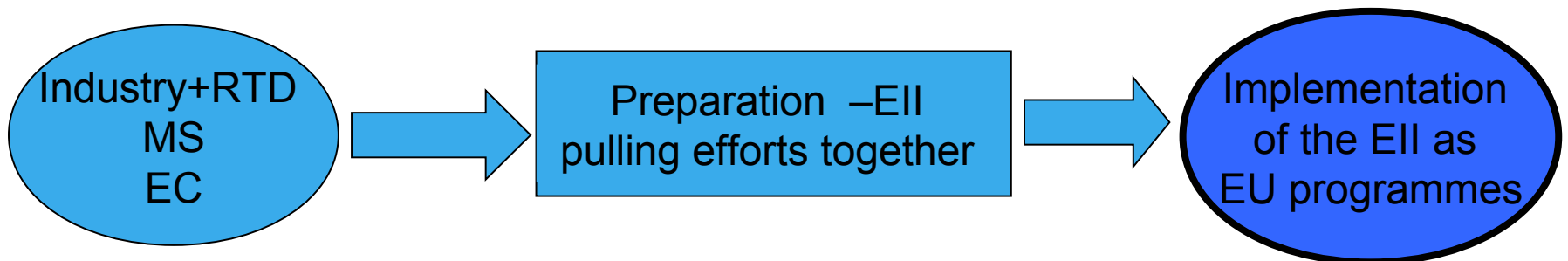
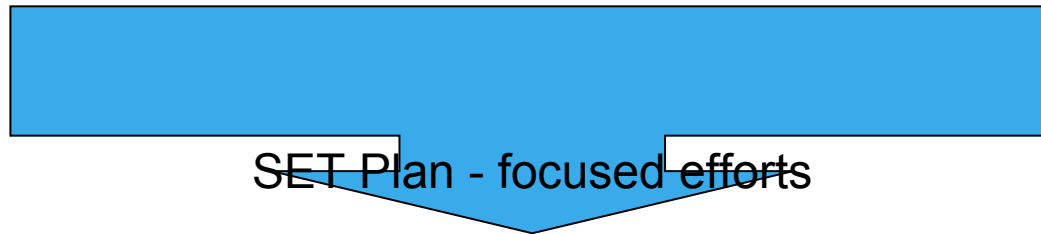
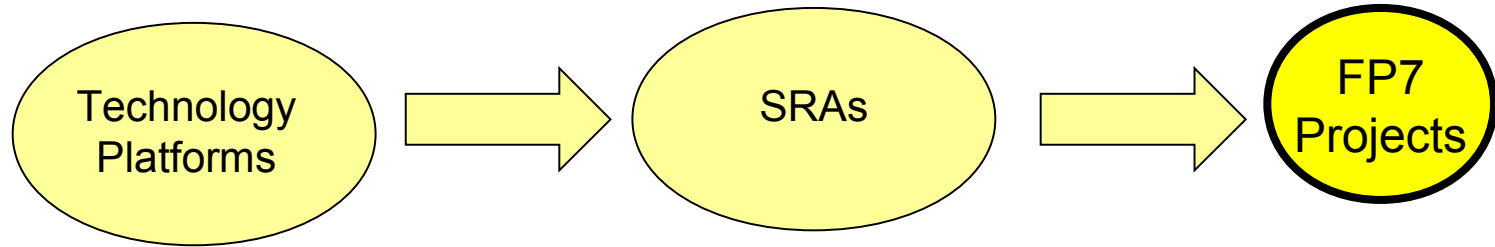


● EII - features

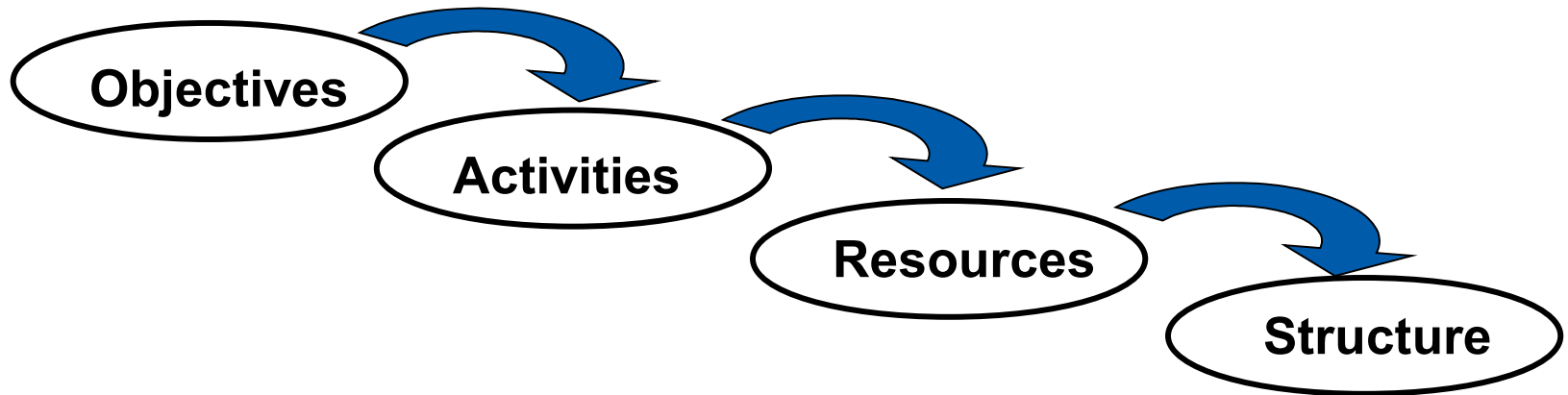
- Led by industry
- Boost research and innovation
- Accelerate development and deployment of technology
- Define & realise clear targets (quantified objective)
- Deliver progress **beyond business-as-usual**
- Contribute to political goals
- Foster Public Private Partnership
-



From TPs to actual implementation



Workflow



First decide on the objectives and activities

- Finance & structure based on the objectives and activities
- Monitoring the progress – Key Performance Indicators
- No single, pre-determined model and structure of implementation
-

➤ *Timeline for setting up the initiative: 1 – 2 years*



● EII - outline 1/2

Objectives

- >> Sector objectives are more evident
- >> Technological objectives are derived, but are at the heart of the EII

By consensus of: Industry, MS and EC

Activities - Scope of the EII

- >> research, demonstration, innovation
- >> time horizon focus variable

Actors – cooperation

- >> companies/industries - criteria
- >> European Research Alliance
- >> other sectors



● EII - outline 2/2

Needs

- » An estimation of the costs of activities
- » Human resources

Resources - public/private effort

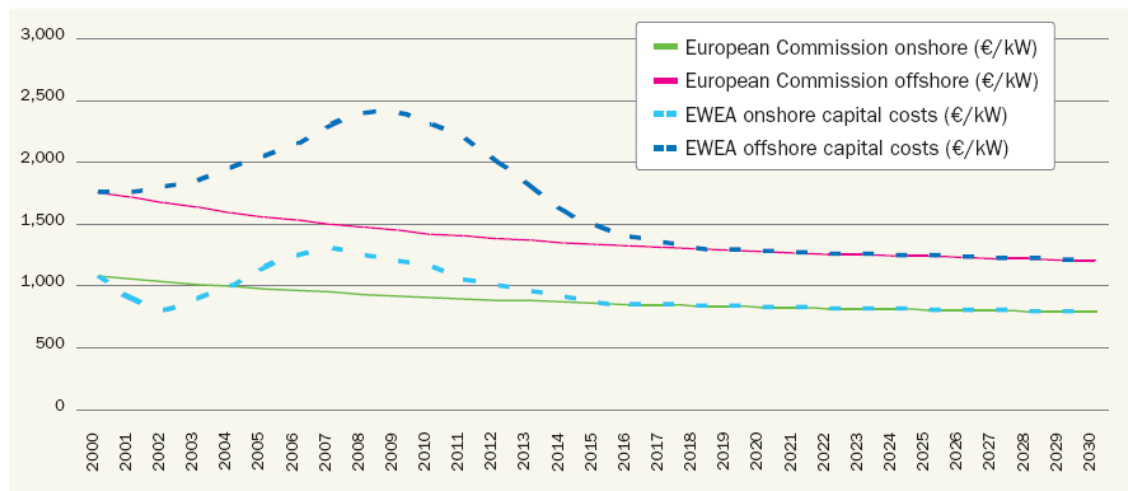
- » Industry + RTD community
- » Member States
- » EC

➤ *Member States' programmes in support of the EIs depending on national priorities*



Wind

Change of focus – more on offshore, more grid



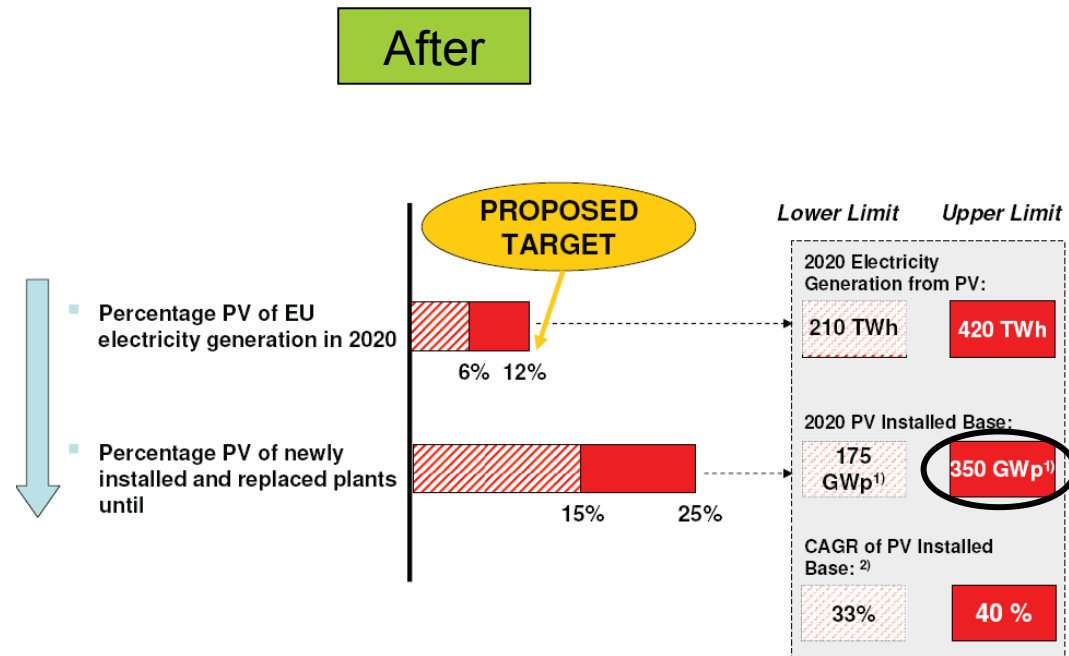
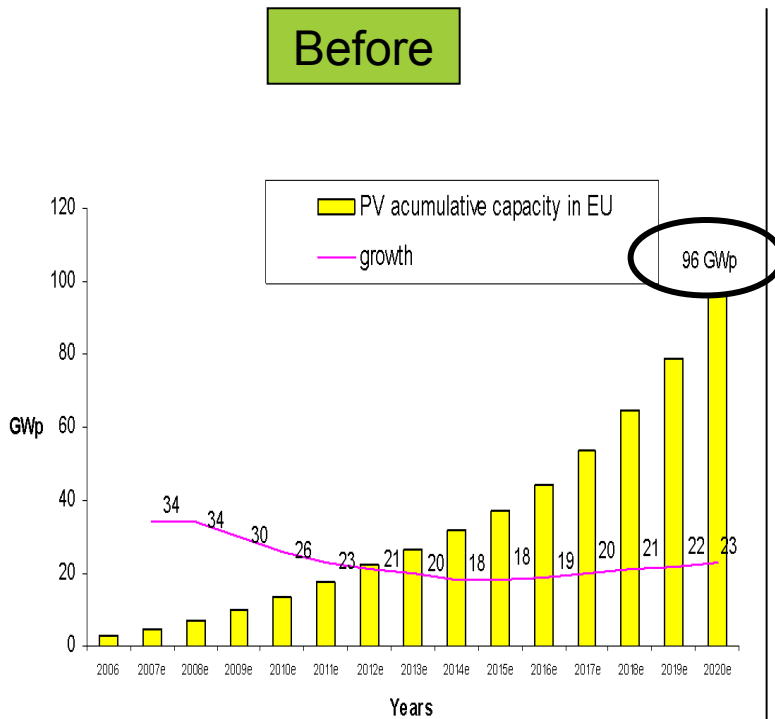
Source: EWEA

Objectives

- » from 50 to 180 GW
- » from 0.05 - 0.09 to < 0.04€/kWh

Solar electricity - PV

Change of the vision of industry - by 2020 from 3% to 12% of the electricity consumption

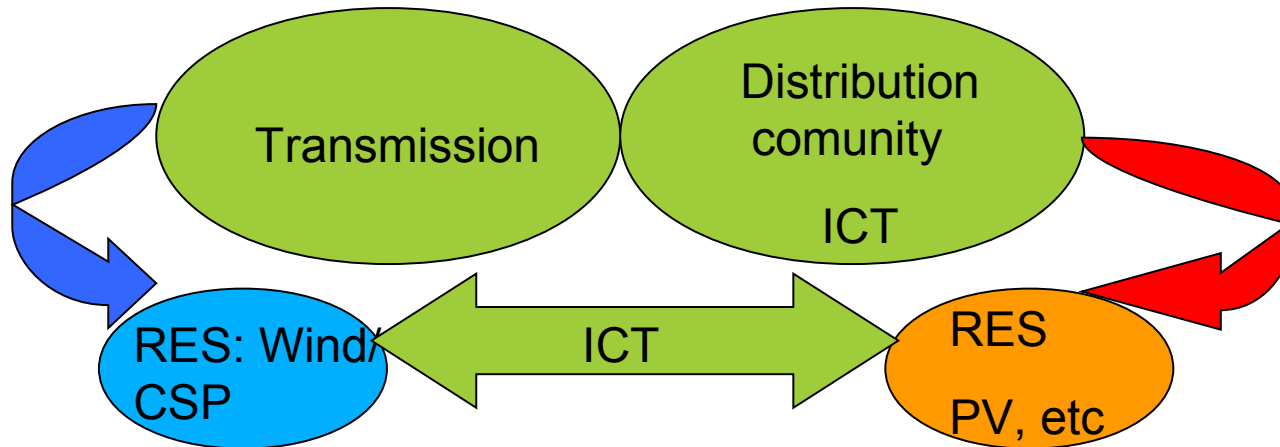


1) Assumes 1,200 TWh p.a. per GWp
2) Based on installed based 2007: 4,5 GWp



Source: EPIA

Grids



Transmission/Distribution/ICT

- System approach
- Different paces of development
-

Bioenergy

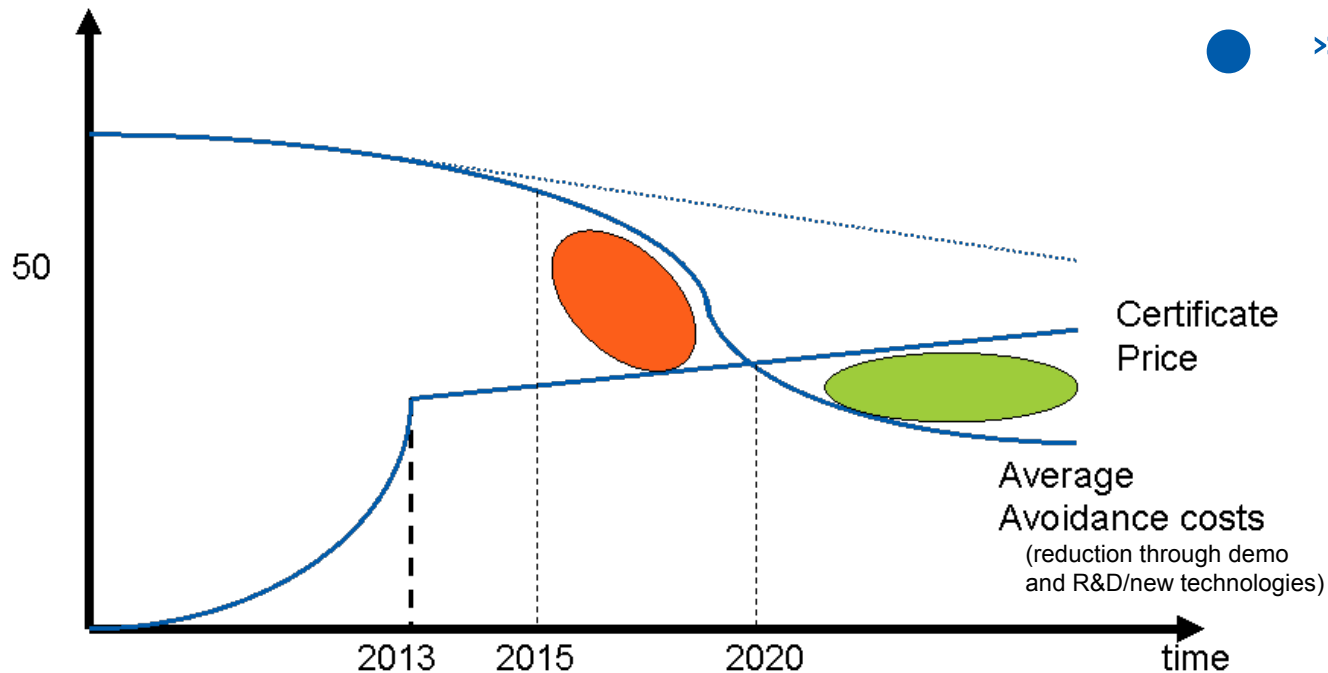
Multitude of sources and end users

- Biofuels –second generation
- Other sectors (electricity and heat)– still
- have to identify their priorities



Carbon Capture & Storage

Additional Cost for
CCS, per ton CO₂



Objectives

- » 10-12 industrial scale CCS demonstration projects by 2015



Nuclear

Objectives

- >> Demonstrate the sustainability of nuclear energy by proving the technological, industrial and economic viability of new fast neutron reactors (Generation-IV)





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Thank you for your attention!



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