

# EWEC 2009



## European Perspective on Wind Energy Research

*Thierry Langlois d'Estaintot  
New and Renewable Energy Sources  
DG RTD, European Commission*



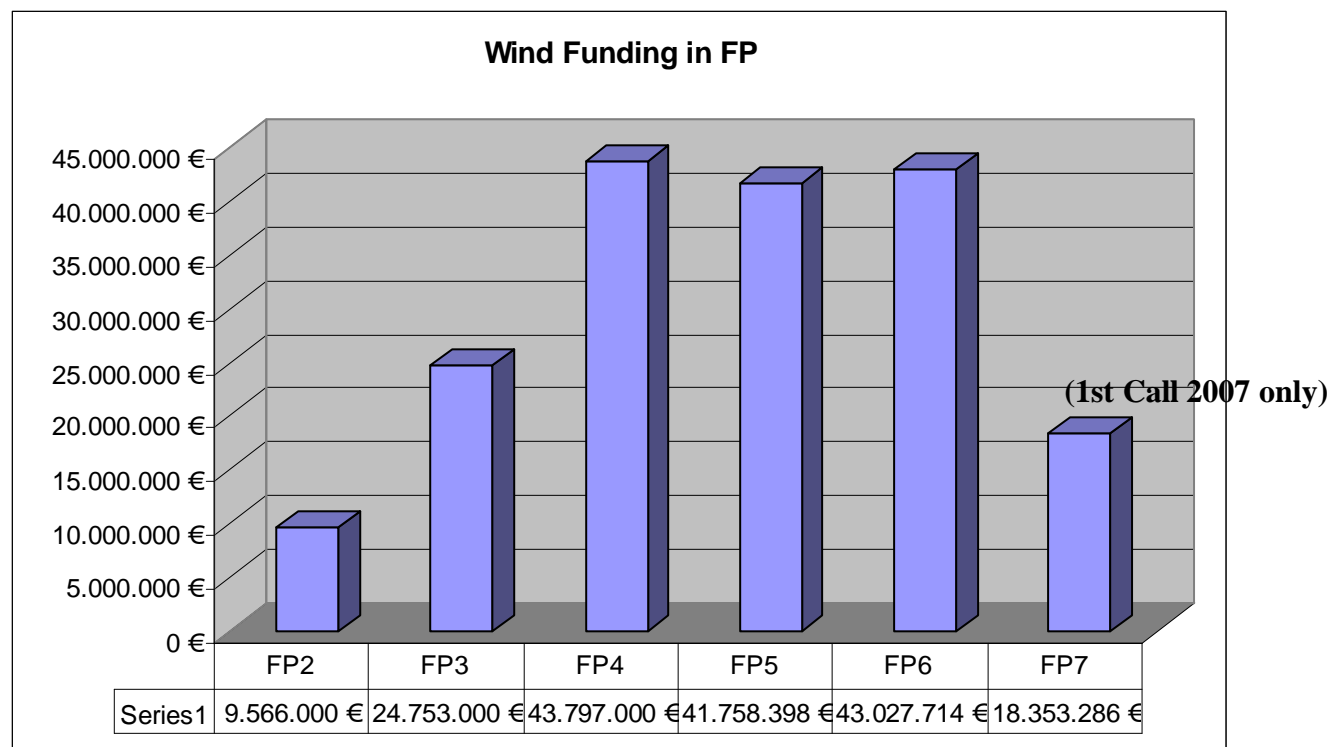
# *Overview of the presentation*

- Support to Wind RD&D in the Framework Programmes (FPs)
- The Strategic Energy Technology Plan (SET Plan)
- The European Industrial Initiative on Wind



# EC (FP) Support to Wind: Historical Perspective

Funding includes DG RTD and DG TREN



# FP6 activities

Project Acronym	EU Funding	Duration
POW'WOW	1.049.646	42
<b>UPWIND</b>	<b>14.566.628</b>	60
REMAP	389.985	24
<b>DOWNVInD</b>	<b>6.000.000</b>	60
HISP	1.697.000	39
STANDICE	243.400	43
NEWGEN3MW	2.000.000	42
SIWT	1.500.000	24
WINDGRID	1.691.197	36
SUPWIND	1.166.770	36
WINDSEC	686.601	36
SEEWIND	3.697.092	36
TOPFARM	1.702.336	36
EWIS	4.038.763	28
ANEMOS.PLUS	2.598.296	36
<b>TOTALS FP6:</b>	<b>43.027.714 €</b>	



## FP7 activities

Project Acronym	EU Funding	Duration
PROTEST	1980119	30
RELIAWIND	5180767	36
SAFEWIND	3992400	48
7-MW-WEC-by-11	3300000	48
NORSEWInD	3900000	48
<b>TOTALS FP7</b>	<b>18.353.286 €</b>	

- Topics FP7-ENERGY-2009-1:
  - Multipurpose off-shore platforms (CP & CA)
- Topics FP7-ENERGY-2009-2:
  - Grids for Large Scale Renewables
- Topics 2010 – end July 2009 – OffShore related



# *The Strategic Energy Technology (SET) Plan*

*COM(2007)723 of 22 November 2007*

- Joint strategic planning / New governance
- Three main pillars for implementation:
  - European Industrial Initiatives (EIIs)
  - European Energy Research Alliance (EERA)
  - Trans-European Energy Networks and Systems (transition planning)
- Increase resources, both financial and human (forthcoming Communication)
- Reinforce international cooperation



## *SET Plan : Six First Priority EII s*

- Solar Europe (PV and CSP)
- **European Wind (focus on off-shore)**
- Bio-Energy Europe (Biofuels in the broader context of the multiple energy uses of biomass)
- European CO<sub>2</sub> capture, transport & storage
- European electricity grid
- Sustainable nuclear fission (gen-IV)



# *Basic principles of the European Industrial Initiative*

- Led by industry
- Boost research and innovation
- Accelerate deployment of technology
- Deliver progress beyond business-as-usual
- Define & realise clear targets (quantified objective)
- Contribute to political goals (energy & climate change)



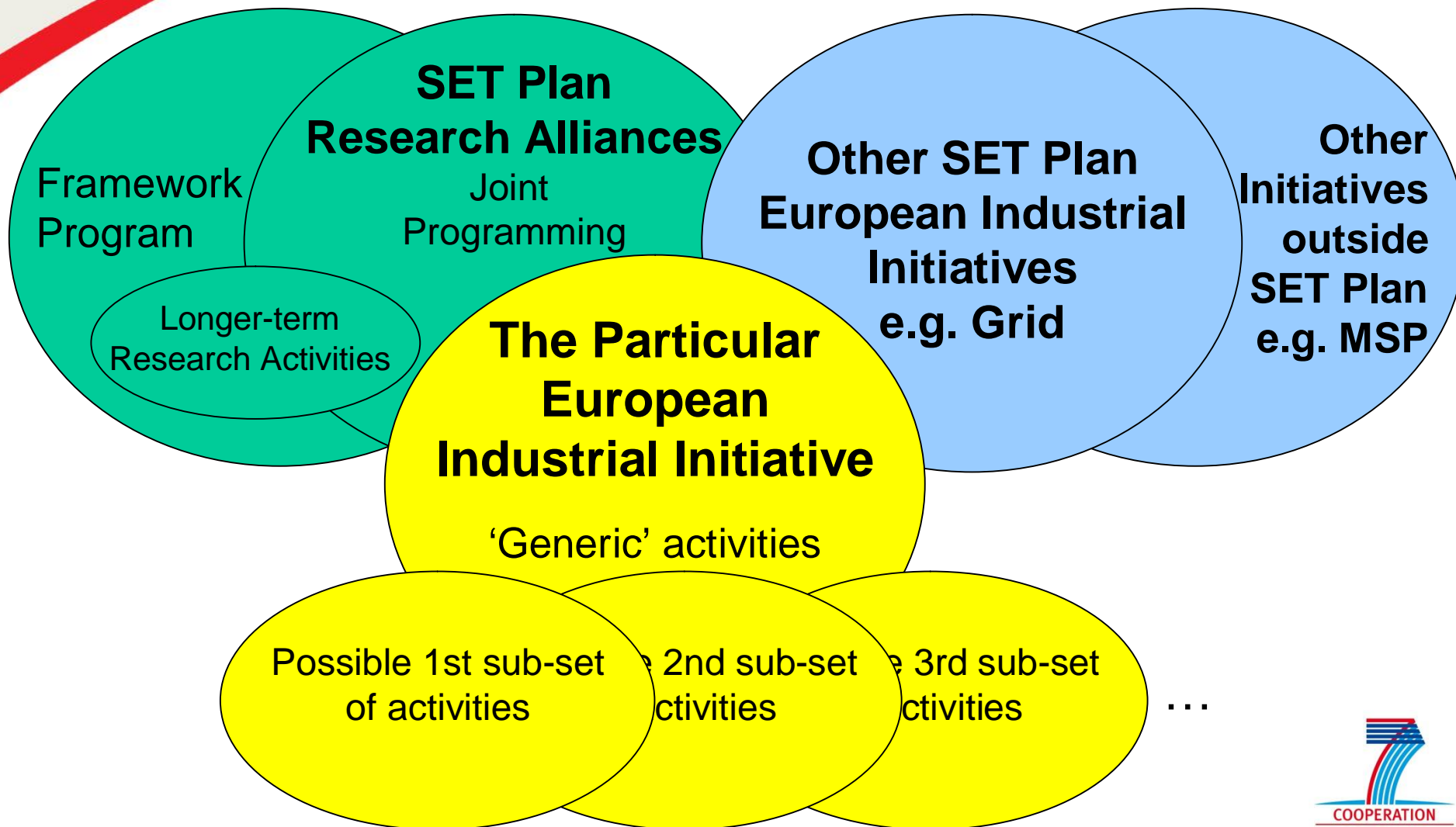


# *Rationale for European Initiative*

- Share risk
- Pool public and private financing
- Foster public–private partnership
- Leverage additional resources
- Consolidate EU approach to international cooperation



# *EIIs : Links with Other Initiatives/ Actions*



# *European Energy Research Alliance (EERA)*

- Initiative by 10 leading institutes, supported by EUA and EUROHORCS and facilitated by the EC. Open to participation of all EU research organisation bringing in significant R&D capacity
- Aim: accelerate development of new energy technologies
  - Strengthen, expand and optimise research capabilities
  - Harmonise national and EC programmes (decrease fragmentation)
  - Draw on results from fundamental research
  - Mature technologies to hand-over to industry-driven research



# *Objectives of the Wind EII*

## By 2020:

- Supply 12-14% of the electricity consumption for Europe by the year 2020
- 180 GW capacity (40 GW OffShore)
- Costs down to 4c€/kWh

## By 2030:

- 300 GW installed capacity (150 GW OffShore)
- EU industrial leadership: >70% of global market shares for EU companies



## *Web Links:*

### *Framework Programmes:*

- DG Research – <http://ec.europa.eu/research/energy/>
- DG TREN – [http://ec.europa.eu/dgs/energy\\_transport/](http://ec.europa.eu/dgs/energy_transport/)
- Intelligent Energy Europe – <http://ec.europa.eu/cip/>
- DG JRC – <http://ec.europa.eu/dgs/jrc/>





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*THANK YOU FOR YOUR ATTENTION*

*Thierry.d'Estaintot@ec.europa.eu*

*Tel. 32-2-2950765*

