



S&T-Plan Conference 2010

3th-4th of june 2010, Madrid, Spain

**Spanish Presidency
of the European Union**

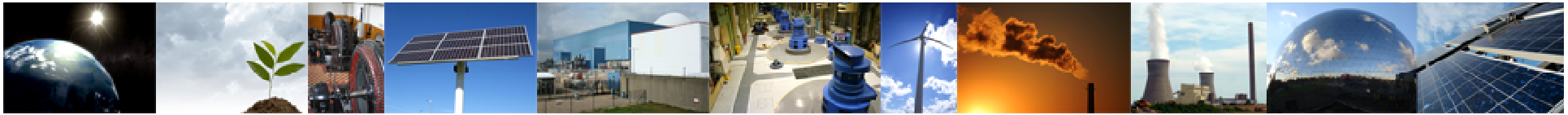
The European Energy Research Alliance



eu

2010.es





The European Energy Research Alliance

Ton Hoff
Chairman of the EERA

Madrid, 4th June 2010

www.eera-set.eu



About EERA

- EERA: European Energy Research Alliance
- Aim: accelerate development of new energy technologies
 - Harmonisation of national and EC programmes funded activities, decrease fragmentation
 - Strengthen, expand and optimise research capabilities
 - Draw on results from fundamental research
 - Mature technologies to hand over to industry driven research (industry groupings)
 - Build upon well accepted Strategic Research Agenda (SRA)
 - Link to Industry Initiatives (public private partnerships)
- Create Virtual Centres of Excellence



About the EERA

Substantial progress made since EERA was founded in November 2008

- Development and implementation Governance Structure
 - From founding partners to Executive Committee
 - Rules on participation in EERA Joint Programmes
 - IPR principles
- Preparation of first Joint Programmes
- International Cooperation (US, Japan)



About EERA

- Participation in EERA in principle open to all (public) research organisations
 - Not just a membership; need to bring in significant R&D capacity
 - Ensure effectiveness
 - Full member: threshold (5 person years / year)
 - Otherwise: associated partnership
 - List of institutes involved in EERA Joint Programmes shows that EERA has grown way beyond the founding partners
- Based on **own** resources (not: additional budgets EC)
- Important: link to industry is always taken into consideration



EERA Joint Programmes

- First four Joint Programmes to be launched today
 - PV, Wind, Geothermal energy, Smart Grids
- Other programmes are under preparation
 - Materials for nuclear
 - CCS
 - CSP
 - Bio energy
 - Fuel cells and hydrogen
 - Smart Cities
 - Energy Storage
 - Basic Science for Energy
 - Etc.

EERA Joint Programmes

- Total resources committed impressive
 - PV: ≈ 1000 person months / year (pm/y)
 - Wind: ≈ 1500 (pm/y)
 - Geothermal energy: ≈ 3000 (pm/y)
 - Smart Grids: ≈ 650 (pm/y)
 - Note: still start up phase (!)
- Links with EII being established
 - CCS, Smart Grids, PV, Wind etc.

EERA Joint Programmes

- Many partners all across Europe
 - **PV:** ECN (the Netherlands –coordinator) AIT (Austria), CEA-INES (France), CIEMAT (Spain), CRES (Greece), CREST (UK), EMPA (Switzerland), ENEA (Italy), EPFL (Switzerland), FhG-ISE / ISET (Germany), Fyzikalni ustav Akademie ved Ceske republiky (Czech Republic), FZ Juelich (Germany), HZB (Germany), IFE (Norway), IMEC (Belgium), Imperial College (UK), IPP (Germany), JRC, LNEG (Portugal), Risø/DTU (Denmark), SINTEF (Norway), University of Gent (Belgium), University of Ljubljana (Slovenia), VTT (Finland), ZSW (Germany)
 - **Wind:** Risø DTU (Denmark – coordinator), ECN (the Netherlands), CRES (Greece), CENER (Spain), CIEMAT (Spain), FhG IWES (Germany), LNEG (Portugal), UoP (Portugal), SINTEF (Norway), VTT (Finland), UoS (UK)
 - **Geothermal:** CEGE (Italy – coordinator), BRGM (France), CNR (Italy), CNRS (France), CRES (Greece), ETHZ (Switzerland), GFZ (Germany), ISES, ISOR (Iceland), KIT (Germany), LIAG (Germany), TNO (Netherlands)
 - **Smart Grids:** ERSE (Italy – coordinator), ENEA (Italy – coordinator), ECN (the Netherlands), Risø/DTU (Denmark), VITO (Belgium), VTT (Finland), AIT (Austria), IWES (Germany), JRC-IE, LABEIN (Spain), LABORELEC (Belgium), SINTEF (Norway), TUBITAK (Turkey)