



European Energy Research Alliance (EERA) in support to the SET-Plan

European Commission
DG RTD K1 – 5th March 2010

The slide has a light blue background with a white curved banner at the top. On the left of the banner is the European Commission logo with the text "EUROPEAN COMMISSION" and "Community research". On the right of the banner is the title "EERA in support to the SET-Plan" in blue. Below the banner is a list of seven topics. A decorative bar with colored squares is at the bottom right.

***EERA in support to
the SET-Plan***

- 1. What is the SET-Plan state of play***
- 2. Why we need an EERA within the SET-Plan***
- 3. What aims for EERA***
- 4. What kind of cooperation for EERA***
- 5. What EERA is not***
- 6. EERA implementation and progress***
- 7. Who can participate***



SET-Plan State of play

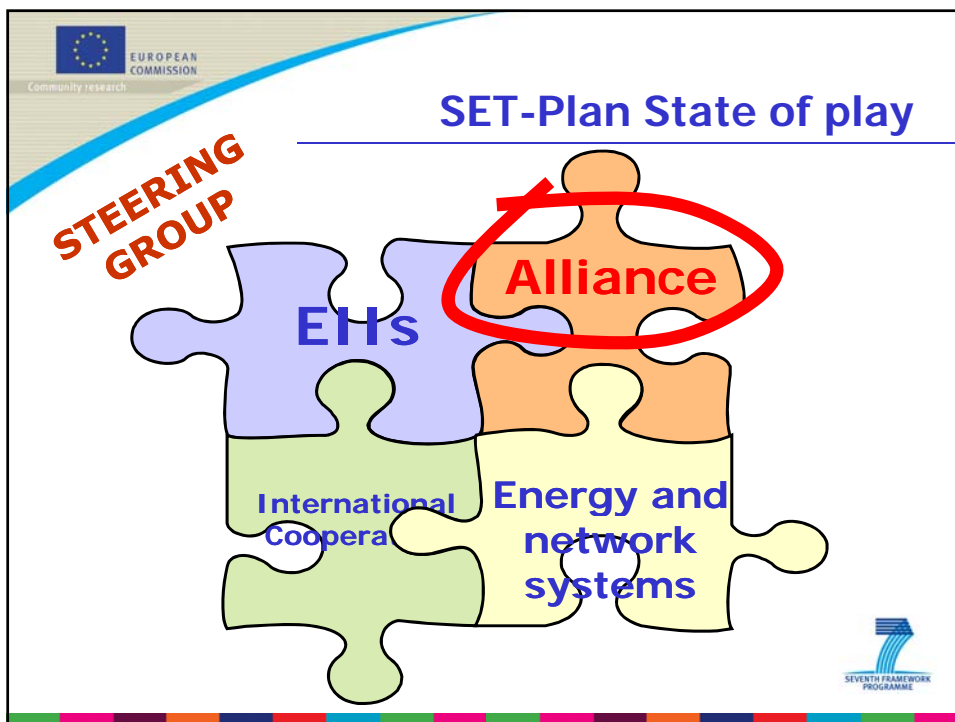
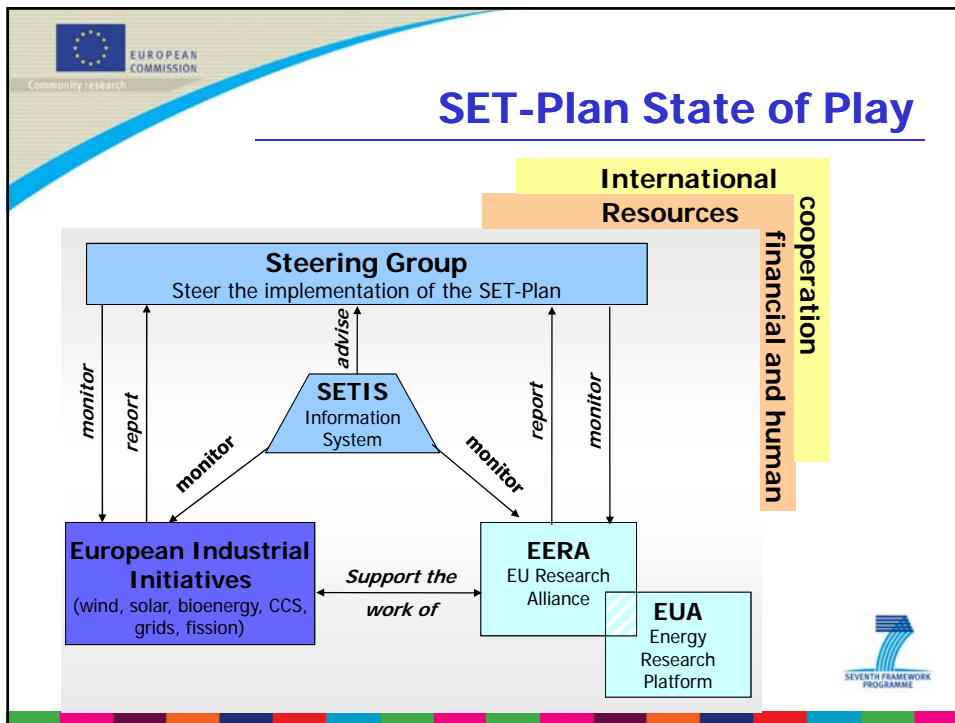
- **The SET-Plan offers :**
 - **A blue print to develop a European world class portfolio** of affordable, clean, efficient and low emission energy technologies;
 - **A firm commitment to position the European industry in a leading role** worldwide while contributing to the transition to a low-carbon economy;
 - **A paradigm shift** from collaborating on projects to financing and implementing Joint programmes.



SET-Plan State of play

- **A panoply of measures :**
 - Joint strategic planning – Steering Group, Information System, Technology Summit
 - **Effective implementation:**
 - European Industrial Initiatives (Wind, Solar, Bio, Grids, CCS, Fission)
 - **European Energy Research Alliance (EERA)**
 - Trans-European Energy Networks and Systems of the Future – transition planning
 - **Increased resources, financial and human**
 - **Reinforced international cooperation**





Why we need an EERA

- **Excellent but dispersed basic research energy capacities**
- **Huge resource for Europe in terms of researchers and facilities:** Excellent research teams in universities and specialised centres **and** Strong National Research Institutes for Energy in Europe
- **But fragmentation and duplication of efforts and policies :** Individual and dispersed strategies and work plans, «Drip-feed» effect of FPs funding on a project-by-project basis **and** Insufficiency of EC traditional instruments of coordination
- **Obvious need to organize a greater research cooperation at Community level**



EERA: What aims

- **Accelerate development of new energy technologies through Joint Programmes (JPs)**
- **Strengthen, expand and optimise research capabilities**
- **Harmonisation of research programmes, decrease fragmentation**
- **Draw on results from fundamental research**
- **Mature technologies to hand over to industry driven research (industry groupings)**



EERA: What Kind of cooperation

- **Implementation of Joint Programmes (JPs):**
 - **Harmonisation of research programmes**
 - Exchange of personnel
 - Exchange of information, agree on who does what (and share results)
 - Sharing of facilities / Building new facilities owned by multiple institutes
 - **JPs based on variable geometry and willingness**
 - Participation in programmes on voluntary basis and variable geometry.
 - No common pot approach: Research institutes should only contribute to the EERA programmes in which they are involved.
 - No additional EC funding: JPs based on the own resources of the EERA members.



What EERA is not...

- **What EERA is not:**
 - It is **not** an EC body or an intergovernmental/MSs body but it gathers research leaders putting resources together and developing JPs. EC acts only as observer.
 - It is **not** about asking for more money from the Framework Programme. The EERA JPs will be based on the own resources of the EERA members.
 - It will **not** involve Community funding a priori. The EC does not intend to inject additional EC fund into EERA JPs except through competitive call.
 - It is **not** a closed club, it remains open to any participant who can bring substantial contribution.



EERA Progress(1)

- **A step by step but rapid implementation in 2008:**
 - **Creation of a structured dialogue between 10 leading institutes in Research Energy in June 2008** (CEA, CIEMAT, CRES, ECN, ENEA, INETI, Helmholtz, UKERC, RISOE, VTT)
 - **Signature of a Declaration of Intent by the 10 leading institutes on the 27th October 2008** supported by EUA and EUROHORCS and facilitated by EC
 - **Nomination of a Speaker & Chairman of the EERA : Ton Hoff** from ECN
 - **Creation of an EERA secretariat** (CEA, ECN, ENEA, Helmholtz, RISOE) for the organisation of EERA meetings and workshops



EERA Progress(2)

- **EERA effective implementation in 2009:**
 - **Key areas identified** (CCS, Wind, Solar PV and solar thermal, Second generation bio fuels, Materials for nuclear, Fuel cells, Smart grids, Geothermal power, Marine applications, More to follow....) **for future JPs**
 - **First pilot workshops organised in 2009 on CCS, CSP, Wind, geothermal energy** to test the methodology and explore the potential to work together...
 - **Definition of a clear governance structure** (a two level structure: a Founding members Group (**ExCo**) of up to 15 members to drive the process and a Programme Level which will be open to any participant)



EERA Progress(3)

- **EERA implementation in 2010:**
 - **Selection of 4 news members:** After an open call and according to several transparent criteria, **SINTEF** (Norway), **PSI** (Swiss), **AIT** (Austria) and **Institute of Power Engineering** (Poland) have been chosen as permanent member of the EERA ExCo on the 26 January 2010.
 - **Possible launch of the first 5 EERA Joint Programmes in March 2010:** EERA is actually in the process of finalising their first joint programmes at least in Wind, Solar PV, Geothermal power, Smart Grids and CCS later one. CSP could also be an option for launch in 2010.
 - **EC funding only for the EERA secretariat** to facilitate coordination activities and the JPs management.



EERA: Who can participate

- **Participation in EERA JPs open to all research organisation:**
 - **Not just a membership; need to bring in significant R&D capacity**
 - **Workshops are announced on EERA website (www.eera-set.eu)**
 - **Participation in workshop based on relevance and commitment**
 - Size of programme (staff) and facilities, potential and willingness to align resources
 - First instance: key players to build the core of the programme
 - When programme is up and running: other players can join



EERA in support to the SET-Plan

- **To conclude:**

- **The EERA aims at accelerating development of advanced technologies through Joint Programmes.**
- **The EERA is advancing rapidly**, the first EERA JPs will be launched this year.
- **But just increasing research efficiency is not enough**, an increase of R&D budgets **also** needed. The SET-Plan financing communication concluded that we need an additional investment in research and innovation of around 50b€, public and private, over the next 10 years to meet the 2020 objectives...



Thank you for your attention

