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Vers la transition énergétique

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□ An Energy Union for Research, Innovation and Competitiveness

- 4 core priorities, to which Member States and the Commission would commit:
 1. n°1 in **Renewables**
 2. Smart EU Energy System with **consumers at the centre**
 3. **Efficient** energy systems
 4. Sustainable **transport**
- 2 additional priorities between the Commission and those Member States who want to use these technologies:
 5. **Carbon Capture and Storage/Use**
 6. **Nuclear** safety

□ Le SET-Plan : Plan stratégique pour les technologies énergétiques

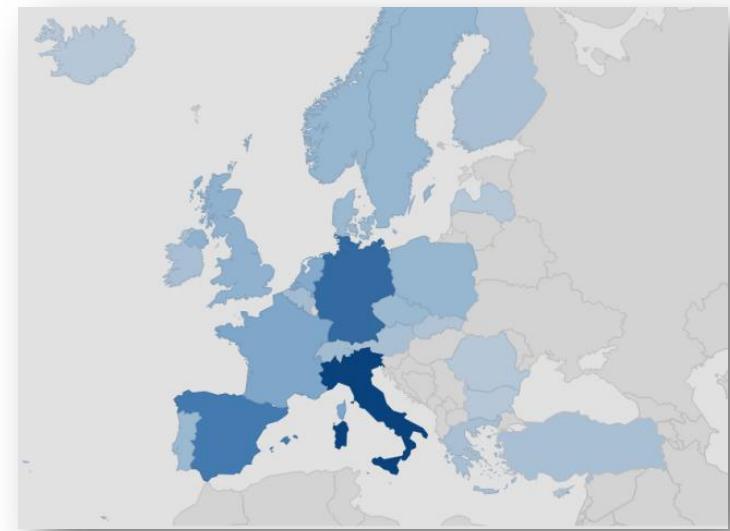
- Lancé en 2008, le SET-Plan a pour objectif d'accélérer le développement et le déploiement au meilleur coût des technologies à faible intensité carbonique notamment en renforçant les coopérations et la coordination entre les Etats Membres (EU28 + Islande, Norvège, Suisse, Turquie, Tunisie).



EERA en quelques mots

Fondée en 2008 avec un statut d'AISBL déposé en 2014, pour accélérer le développement des technologies bas carbone pour l'énergie

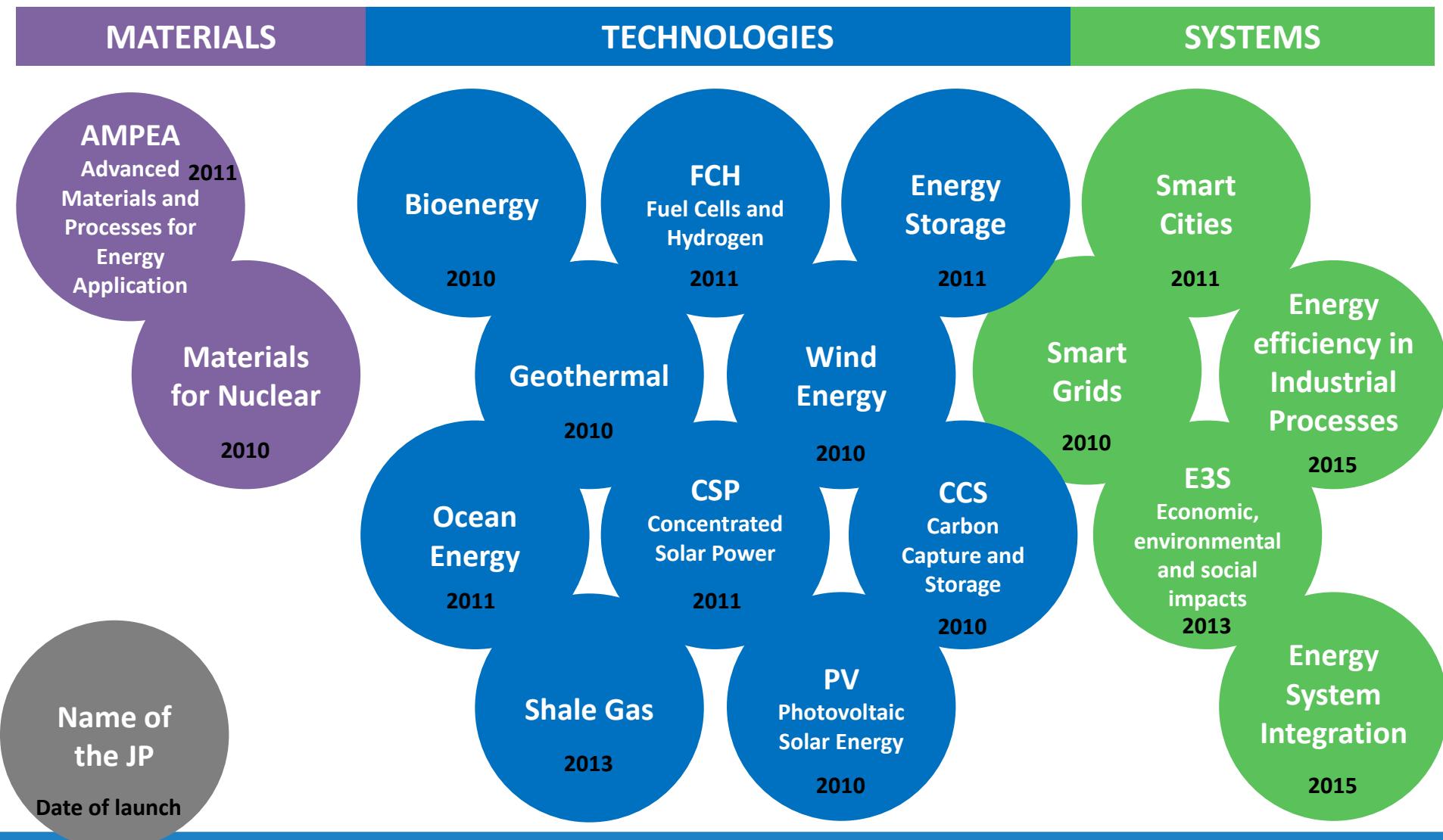
- The key actor in European Energy Research inside the SET-Plan
- Bringing together more than **175 research organizations and universities**
- Covering **23 EU Member States** + Norway, Switzerland, Iceland and Turkey
- Organized in **17 Joint Programmes** covering research in materials, technologies, systems and including policy and social aspects
- A track record of 90% participation in FP7 projects in energy
- Collaborating with **European industry** through ETIPs (*European Technology and Innovation Platforms*) and other **partnerships** in the field of energy
- Promoting national research alliances with a track record of 7 national alliances (*ANCRE...*)



The darker, the more EERA member.

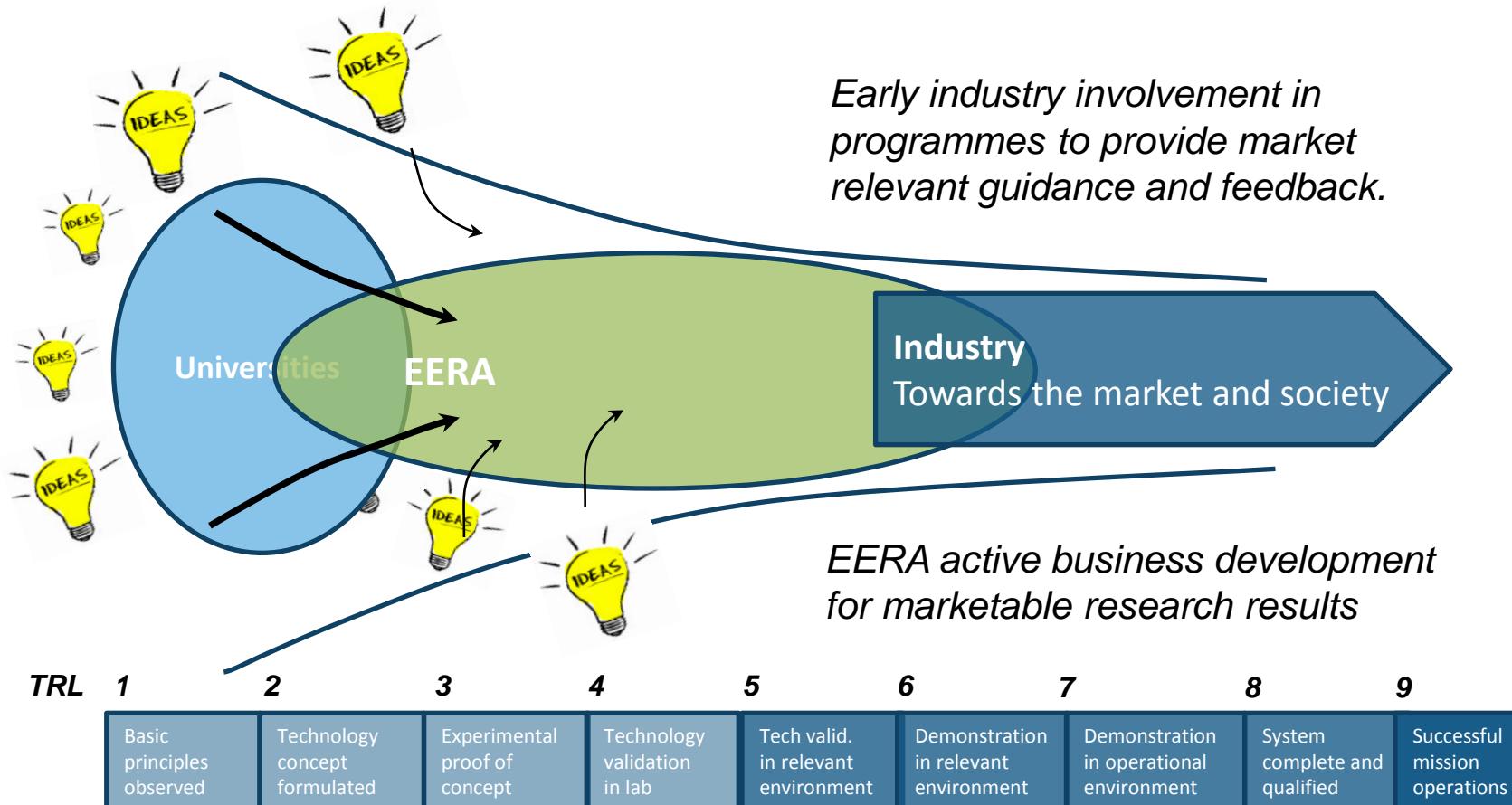
EERA Joint Programme technology portfolio

- supporting the SET Plan -



Position de l'EERA dans la chaîne de l'innovation

TRL * de 2 à 7, avec un focus sur TRL 2-5



* Technology Readiness Level : niveau de maturité technologique

H2020 / Positionnement de l'EERA

par rapport aux autres instruments communautaires dans le domaine de l'énergie

TRL scale

1 2 3 4 5 6 7 8 9



EERA

JTI FCH 2

KET : ICT, NMP,
Biotechnologies

Défis Energie, Transport,
Climat

KIC Innoenergy
Innovation projects

Coopération mise en œuvre dans les Programmes Conjoints

1. Réseautage

- ✓ Echange d'information
- ✓ Echange de personnel

2. Harmonisation

- ✓ Partage d'installations

3. Stratégie partagée

- ✓ Stratégie commune pour aborder de nouvelles questions de recherche
 - trop de sujets à traiter sur l'énergie pour chaque institut
 - éviter trop de duplications, assurer la complémentarité et les synergies de programmes
 - se mettre d'accord sur qui fait quoi puis partager les résultats
- ✓ Construire ensemble de nouvelles installations

Financement des activités de l'EERA

National projects
(competitive)

In-kind
(institutional)

EU calls
(H 2020)
e.g. CSA, IRP

Other types of Joint Programming
e.g. ERANET+, Berlin model

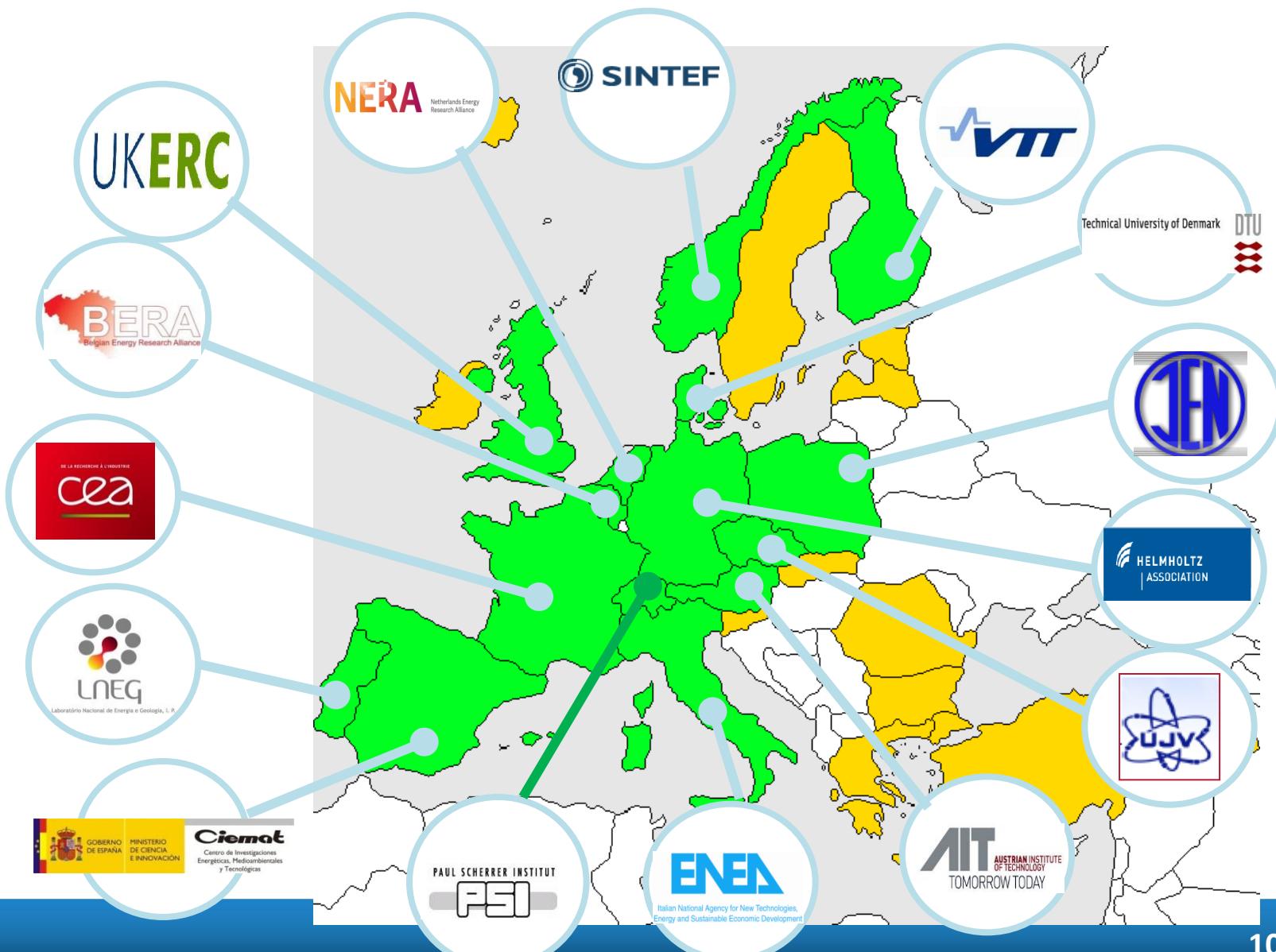
Coordination of research activities
Collaboration for common R&I agendas
Co-creation of new joint R&I projects and programmes

Les 7 attentes de la Commission Européenne vis-à-vis de l'EERA

- To play an **advisory** role
- To **implement SET-Plan actions**
- To act as a SET-Plan **ambassador**
- To **coordinate the scientific community** in the energy sector to produce excellent research
- To support **mobility of researchers and student** training programmes
- To be a “**reservoir**” of research results/solutions/ knowledge/ IP ready to be transferred to industry
- To provide evidence of EERA's **achievements** and progress under points 1-6

Les 15 membres de l'Executive Committee

**Préside depuis
le 8 Avril 2014**



Quelques succès de l'EERA

— European Union projects

- Projects with EERA members represent **89%** of FP7 ENERGY projects
- EERA member **coordinate 40%** of FP7 ENERGY project volume
- EERA member projects represent **93%** of all FP7 ENERGY funds

— Industrial links

- EERA JPs represented in **all** 7 EIIs and the JTI Fuel Cells and Hydrogen

— Some others achievements

- JP **Advanced Materials** started the first European initiative on new research topic **artificial photosynthesis (example of network that establishes a European roadmap to be implemented)**
- JP **Nuclear Materials** internally selected 30 pilot project proposals (each 1-2.5 M€ budget, for a duration of 3-4 years); 10 of them will be implemented in the coming years. Supported by Euratom, Member States calls and in-kind contributions from EERA members (**example of concrete action for the realization of the JP research agenda**)
- JP **Smart Grids** is recognized as centre of excellence in its area and provides feedback to several international initiatives and projects (International Smart Grid Action Network, Smart Grids European Technology Platform and European Electricity Grid Initiative) (**example of stakeholder collaboration**)
- **opening up closed R&D communities** (like the **CSP** one) **to other relevant EU stakeholders**