

# EERA coordination towards EU

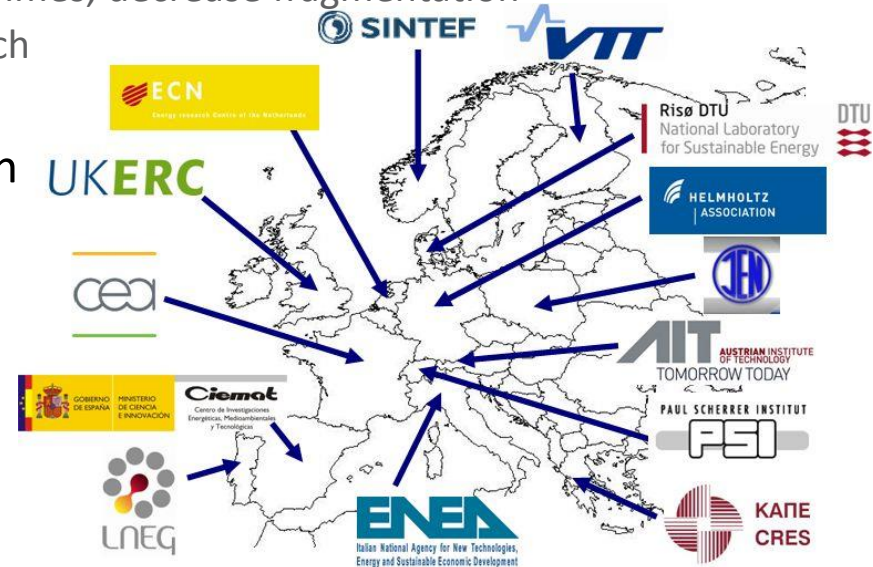
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# European Energy Research Alliance

- (2010) Fifteen leading European Research Institutes have taken up the challenge to found a European Energy Research Alliance (EERA).
- Alliance that aims to accelerate development of new energy technologies
  - Strengthen, expand and optimise research capabilities
  - Harmonisation of national and EC programmes, decrease fragmentation
  - Draw on results from fundamental research
- Called for in the Strategic Energy Technology (SET) Plan



# European Energy Research Alliance

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- 13 Joint Programmes have been launched since EERA's founding:
- (2010) Photovoltaic, Wind Energy, Smart Grids and Geothermal
- (2010) Carbon Capture and Storage, Materials for Nuclear and Bioenergy
- (2011) Concentrated Solar Power and Ocean Energy
- (2011) Smart Cities”, Advanced Materials and Processes for Energy Applications, Energy Storage and Fuel Cells and Hydrogen
  
- Participation in EERA in principle open to all research organisations
  - Not just a membership; need to bring in significant R&D capacity
- Based on **own** resources (not: additional budgets EC)
- EERA aims to be light & non-bureaucratic

# Ambition of the Joint Programme

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- The EERA vision for the joint programme on wind energy is
  - to provide the strategic leadership for the scientific–technical medium to long term research to support the EII and the Technology Roadmap’s activities on wind energy and
  - on basis of this, to initiate, coordinate and perform the necessary scientific research.
- The vision calls for all the EERA participants and associates
  - to align their research in wind energy topics which influence the use and deployment of wind energy and
  - Perform coordinated and structured research in medium to long-term programmes with shared research facilities.



# Aim of EERA JPWind

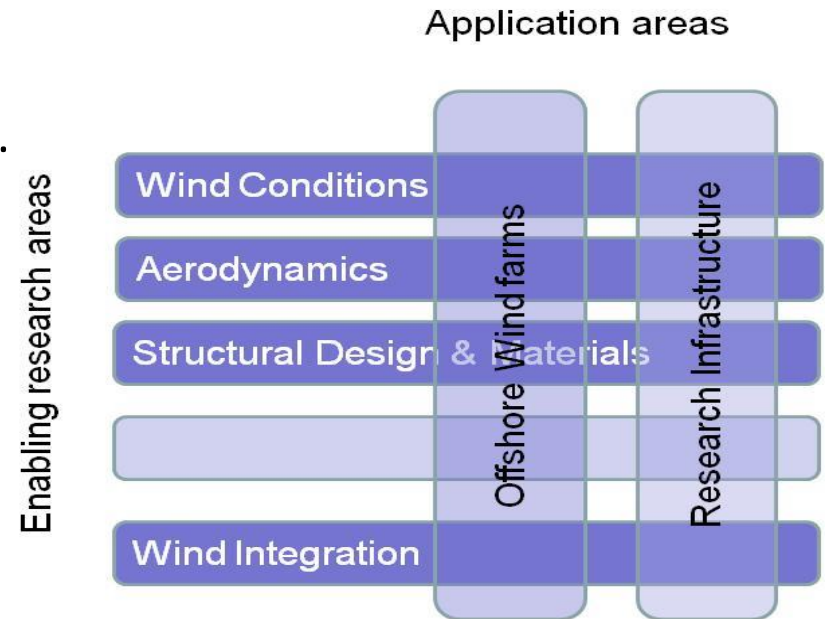
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- Align national funded activities in European context
- Align and coordinate activities within countries
- Propose topics to EU and influence programme
- Connect to TPWind and define the medium to long-term programme
- Currently 27 participants
  - 190 manyears committed

# Structure of the JP Wind

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- **Wind Conditions.**  
Coordinated by Risø DTU in Denmark.
- **Aerodynamics.**  
Coordinated by ECN in the Netherlands.
- **Offshore Wind Energy.**  
Coordinated by SINTEF in Norway.
- **Grid Integration.**  
Coordinated by FhG IWES in Germany.
- **Research Facilities.**  
Coordinated by CENER in Spain.
- **Structures and Materials.**  
Coordinated by CRES in Greece



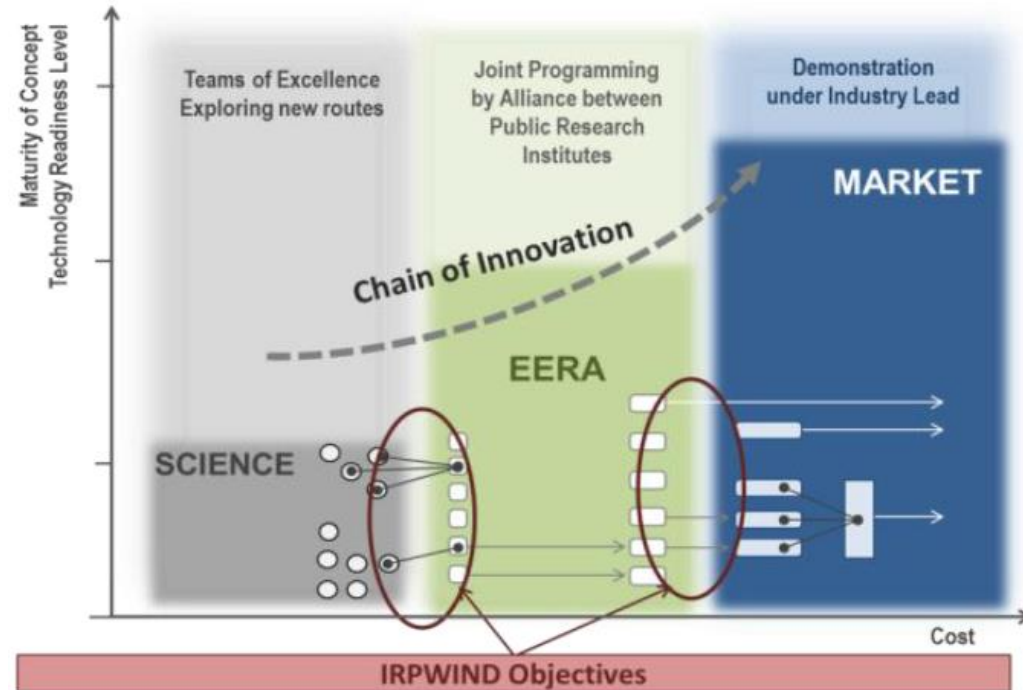
# Successful applications

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- EERA Design Tools for Offshore Wind Farm (started in January 2012)
- European WindScanner Preparatory Phase project (started October 2012)
- INNWIND project (started in December 2012)
  
- The EERA JP Wind is involved in WindTrust (led by industry)
- The EERA JP Wind has taken the initiative for the creation of consortia to submit project proposals for three topics in the FP7 2013 WP on Energy:
  - Integrated Research Programme (IRP) on Wind Energy (negotiations)
  - Advanced Aerodynamic Tools on Large-Scale Rotors AVATAR (negotiations)
  - European Wind Atlas (ERA NET+). National funding authorities apply; EERA Wind Members are key actors

# Successful IRP application (10M€)

- IRPWIND, gathering 24 leading research institutions across Europe, will directly contribute to
  - The exploitation of European added value by promoting joint collaborative projects and overall reinforcement of research excellence, in a sector which will be key to Europe’s sustainability and economic growth;
  - The optimization of networking benefits from joint use of European facilities and other coordination efforts around national and European R&D initiatives;







# Proposed Work Programme Cycle

2014	2015	2016	2017	2018	2019	2020
Strategic Programme						
Work Programme 1 (plus tentative information for 2016)		Strategic Programme				
		Work Programme 2 (plus tentative information for 2018)		Strategic Programme		
				Work Programme 3 (plus tentative information for 2020)		
						Work Programme 4

# Dank voor uw aandacht

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