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## EU budget 2014–2020 deal: opportunities for wind energy

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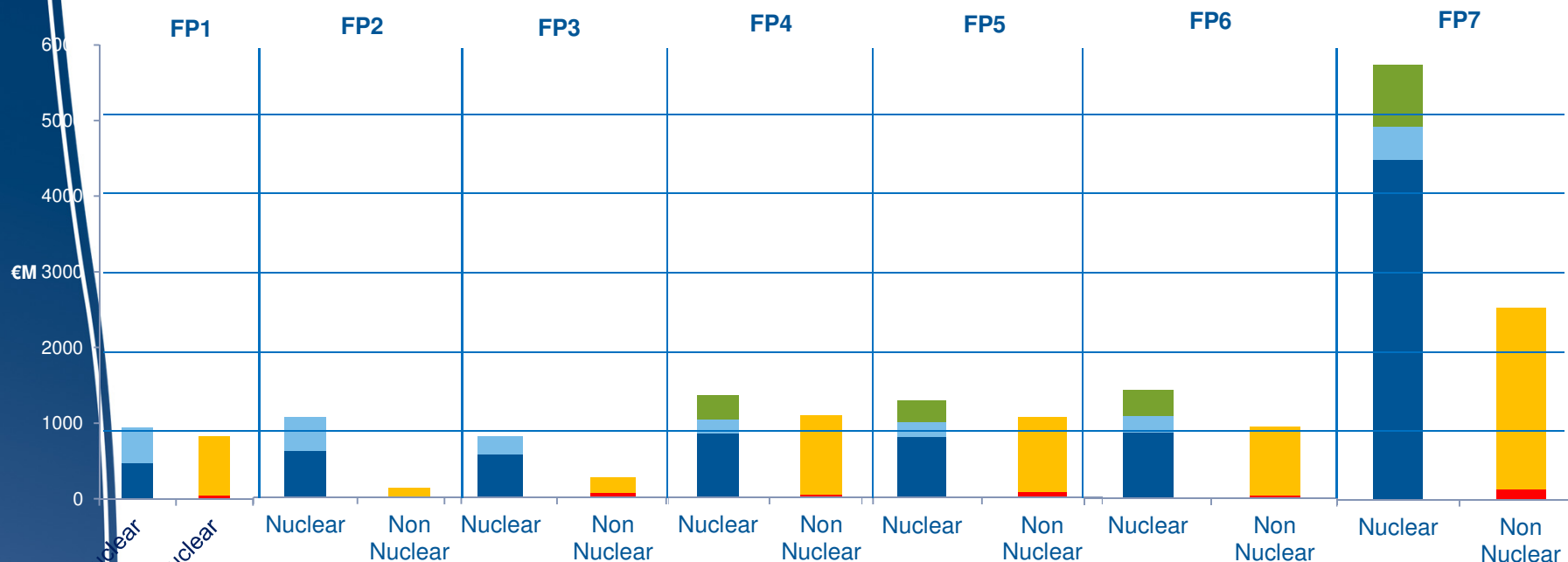
## EU budget 2014–2020 deal: opportunities for wind energy

- EU energy funding – overview of the past years
- MFF 2014-2020 deal
- Horizon 2020
- Cohesion funds
- Connecting Europe Facility

# R&D for nuclear (fission, fusion, ITER and JRC) vs. non-nuclear (wind, non-wind)



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Rest Non Nuclear

Wind

JRC

Fission

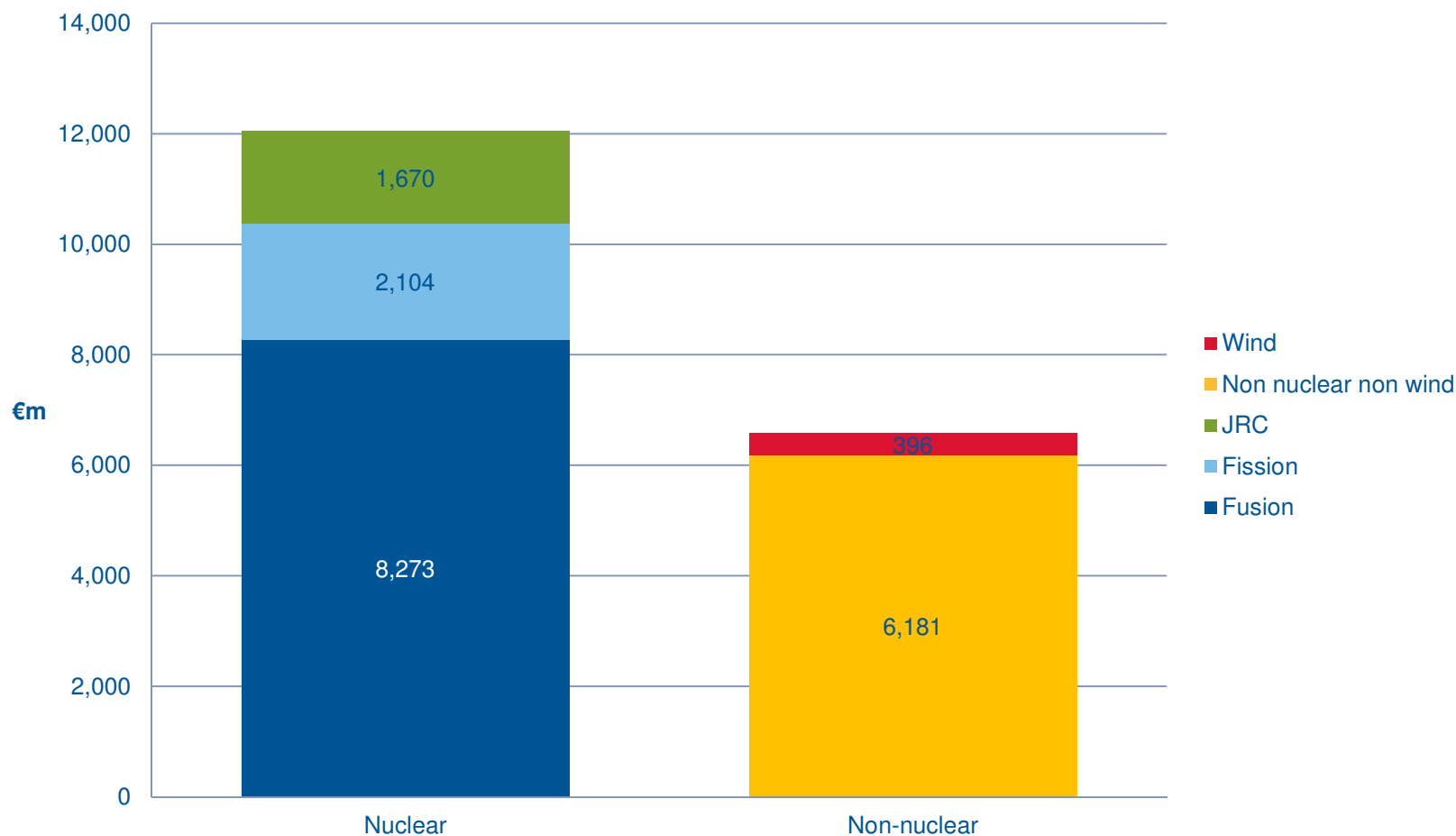
Fusion

€M	FP1	FP2	FP3	FP4	FP5	FP6	FP7
<b>Nuclear</b>	940	1,051	796	1,336	1,260	1,352	5,311
Fusion	480	611	568	846	788	824	4,156
Fission	460	440	228	171	191	209	405
JRC	0	0	0	320	281	319	750
<b>Non-nuclear energy budget</b>	830	122	267	1,076	1,042	890	2,350
Wind	46	8	59	44	70	39	130
Non-nuclear (excluding wind)	784	114	208	1,032	972	851	2,220



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## EU energy R&D funding: nuclear vs. non-nuclear energy funding in FP1 - FP7 (1984-2013) m €



# MFF 2014-2020 deal

(EUR million – 2011 prices)

Commitment Appropriations	Commission proposal	Council conclusions	%
<b>1. Smart and Inclusive Growth</b>	503,310	450,763	-10.4
<b>1a Competitiveness for growth and jobs</b>	164,316	125,614	-23.6
<b>1b Economic, social and territorial cohesion</b>	338,994	325,149	-4.1
<b>2. Sustainable Growth: Natural resources</b>	389,972	373,179	-4.3
<b>3. Security and Citizenship</b>	18,809	15,686	-16.6
<b>4. Global Europe</b>	70,000	58,704	-16.1
<b>5. Administration</b>	63,165	61,629	-2.4
<b>6. Compensations</b>	27	27	0
<b>TOTAL</b>	<b>1,045,283</b>	<b>959,988</b>	<b>-8.2</b>

## Key possible features for wind are:

- 1) Horizon 2020 - research and innovation programme.
- 2) Cohesion funds - renewable energy, research and innovation.
- 3) Connecting Europe Facility - electricity infrastructure projects.

## Horizon 2020 vs. FP7 (in constant 2011 prices)

EU Research policy programme	FP7 (2007-2013), EUR m	Commission proposal: Horizon 2020 (2014- 2020), EUR m	Final Horizon 2020
EU research regulation	50,521	77,606	68,099
Euratom	2,064	2,394	2,101
<b>TOTAL EU RESEARCH BUDGET</b>	<b>52,585</b>	<b>80,000</b>	<b>70,200</b>
ITER project	3,247	2,707	2,707
<b>TOTAL EU RESEARCH BUDGET including ITER</b>	<b>55,832</b>	<b>82,707</b>	<b>72,301</b>

12.25% cut was introduced by the Council

## Energy funding in Horizon 2020

- EUR 4.5 billion (7.7% of H2020) through Secure, clean and efficient energy.
- EUR 1 billion may go through Access to Risk Finance Facility for SET-Plan activities

Non-nuclear energy research	FP7 energy, EUR m	Commission proposal: Horizon 2020 energy, EUR m	Final Horizon 2020	FP7 vs. Horizon 2020, %
EU regulation	2,350	6,000	5,244	223.15%

- 85% earmarking for RES, EE, smart grids, storage & IEE
- No funding target for wind ☹️



# The 1<sup>st</sup> draft Energy work programme 2014-2015



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- The call for competitive low-carbon energy has 8 chapters.
- Wind energy projects are possible under :
  - (1) Renewable electricity and heating/cooling,
  - (2) Modernising the single European electricity grid and
  - (3) Providing the energy system with flexibility through enhanced energy storage technologies
- **3 broad topics**, which address the technology development stages, but not separate technologies: **technology development, demonstration and market uptake**. Funding targets for technologies could solve this uncertainty.
- The Commission is covering all new and existing technologies under a broad call, but it **does not guarantee that projects for each technology will be selected every year**.
- The share of the EU contribution benefitting **one single technology area shall not exceed 25% of the budget** for the present topic. (Wind projects share in the FP7 - 24.2%).

# Wind energy technology topics



## 1) Call: Developing the next generation technologies of renewable electricity and heating/cooling

Technology specific challenge for wind energy (2014 and 2015 calls): Substantially reduce the costs of wind energy :

- i) control strategies and systems for new and very large rotors;
- ii) innovative integrated offshore systems with a significant lower mass;
- iii) new innovative substructure concepts, including floating platforms, to reduce production, installation and O&M costs for water depths of more than 50m.

## 2) Call: Demonstration of renewable electricity and heating/cooling technologies

Technology specific challenge for wind energy (2014 and 2015 calls): Substantially reduce cost of wind energy :

- i) demonstration and testing of new nacelle and rotor prototypes, with a significant lower mass and material intensity and applicable to several types of large-scale wind turbines;
- ii) demonstration of innovative bottom-fixed substructure concepts for water depths of 30 to 60m capable of reducing costs;
- iii) demonstration of innovative floating wind turbine concepts.

## 3) 2014 call: Meshed off-shore grids in the Northern Seas

This call is dedicated to solve grid connection issues of the offshore wind farms in the North Sea. It covers EWI Component 3.1.1., under Grid integration strand, and is in line with TPWind suggested topic.

## 4) 2015 call: Large scale storage

This call concerns demonstration and validation of linking storage projects with the development of the Northern Seas grid concepts, in particular reducing the need for curtailment of wind.



## Cohesion policy for wind (Heading 1b)

- 2007-2013 (EUR 339bn)

EUR 4,9bn for RES

EUR 5,1bn for EE

**EUR 0.8bn for wind**

- 2014-2020 (EUR 325bn)

The deal: **~EUR 23bn for RES+EE!**

- Thematic objectives:
  - Research and innovation
  - Shift to low-carbon economy (RES etc.)
  - Climate change adaptation
  - Environmental protection



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## Connecting Europe Facility -CEF (Heading 1a)

- Commission proposal: EUR 50bn
- Of which **EUR 9.2bn** for identified Energy priority corridors of electricity, gas and oil as identified in the Energy infrastructure package – including offshore electricity grid in the Northern Seas.
- Council Conclusions: EUR 29.3bn
- Final deal: **EUR 5.1bn for energy** – but requirement to spend the majority of the funding to electricity projects.
- The current TEN-E programme = 163 million euros.



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# THANK YOU

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