European Wind Energy Technology Platform

Technology Platforms: Russian and European Experience. Risk Management Instruments in Industry and Energy”

All Russia – Exhibition centre
21 May 2014, Moscow

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Wind power installed in EU – 2013 Highlights

- 11,159 MW installed
  - 9,562 MW onshore (86%)
  - 1,567 MW offshore (14%)
- 8% decrease Vs. 2012
  - -12% onshore
  - +34% offshore
- A total cumulative capacity of 117.3 GW is now installed in the EU

	Installed 2012	End 2012	Installed 2013	End 2013
EU Capacity (MW)				
Austria	296	1,377	308	1,684
Belgium	297	1,375	276	1,651
Bulgaria	158	674	7.1	681
Croatia	48	180	122	302
Cyprus	13	147	0	147
Czech Republic	44	260	9	269
Denmark	220	4,162	657	4,772
Estonia	86	269	11	280
Finland	89	288	162	448
France	814	7,623	631	8,254
Germany	2,297	30,989	3,238	33,730
Greece	117	1,749	116	1,865
Hungary*	0	329	0	329
Ireland	121	1,749	288	2,037
Italy	1,239	8,118	444	8,551
Latvia	12	60	2	62
Lithuania	60	263	16	279
Luxembourg	14	58	0	58
Malta	0	0	0	0
Netherlands	119	2,391	303	2,693
Poland	880	2,496	894	3,390
Portugal	155	4,529	196	4,724
Romania	923	1,905	695	2,599
Slovakia	0	3	0	3
Slovenia	0	0	2	2
Spain	1,110	22,784	175	22,959
Sweden	846	3,582	724	4,470
United Kingdom	2,064	8,649	1,883	10,531
Total EU-28	**12,102**	**106,454**	**11,159**	**117,289**
Total EU-15	**9,879**	**99,868**	**9,402**	**108,946**

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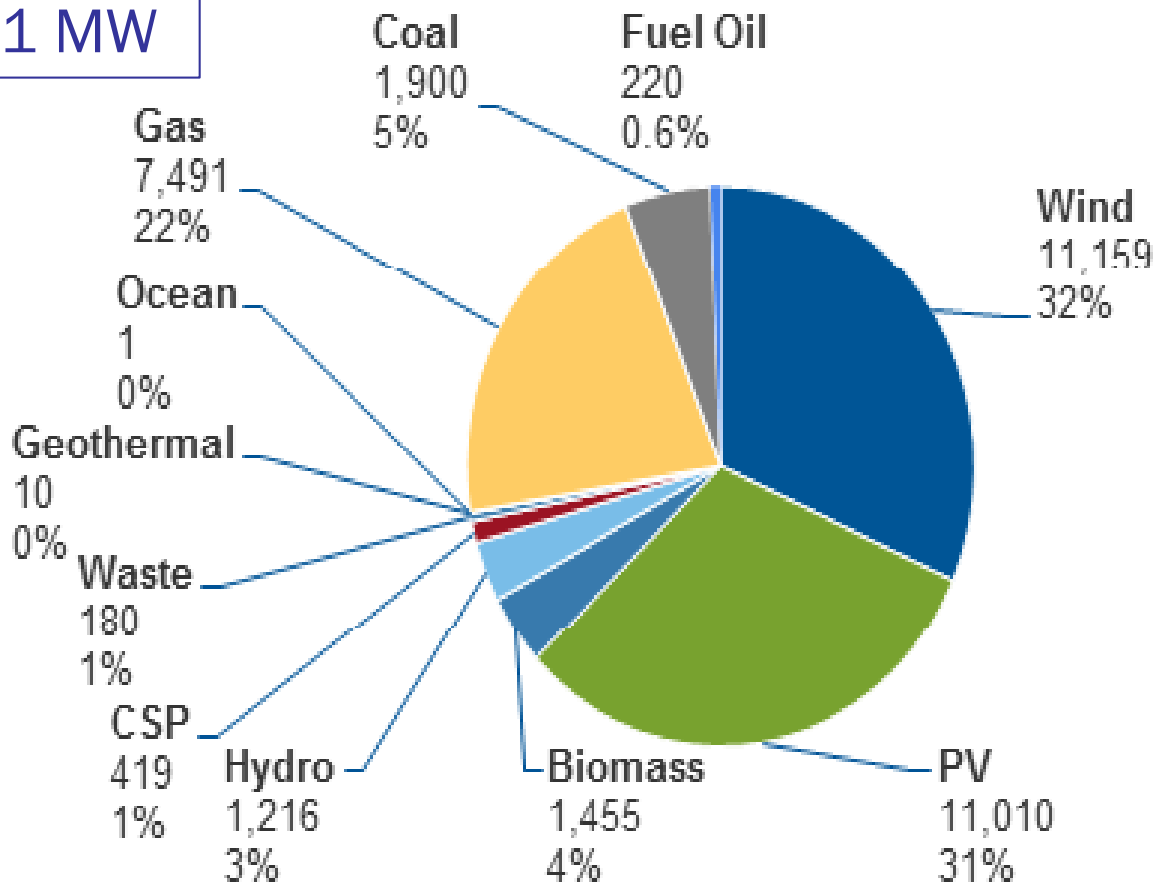
Share of new power capacity installations - EU

Total 35,181 MW



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TPWind: an introduction

- 2002 Barcelona European Council: EU goal to increase its research effort to 3% of GDP by 2010;
- Instrument: establish **European Technology Platforms** to identify common R&D agendas in strategic sector;
- TPWind: established in 2005 with the support of the European Wind Energy Association and officially launched in 2006;
- EU funding since 2007 (6^{th} and 7^{Th} Framework Programme);
- The secretariat is hosted by EWEA.

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TPWind: an introduction

What is TPWind?

- TPWind is a permanent network and R&D forum;
- More than 150 wind energy experts;
- Representing the entire wind energy sector: Industry, R&D institutions, government, civil society, finance organisations;
- Identify areas for increased innovation, new and existing research and development tasks;
- Advise European institutions and Member States on R&D priorities.

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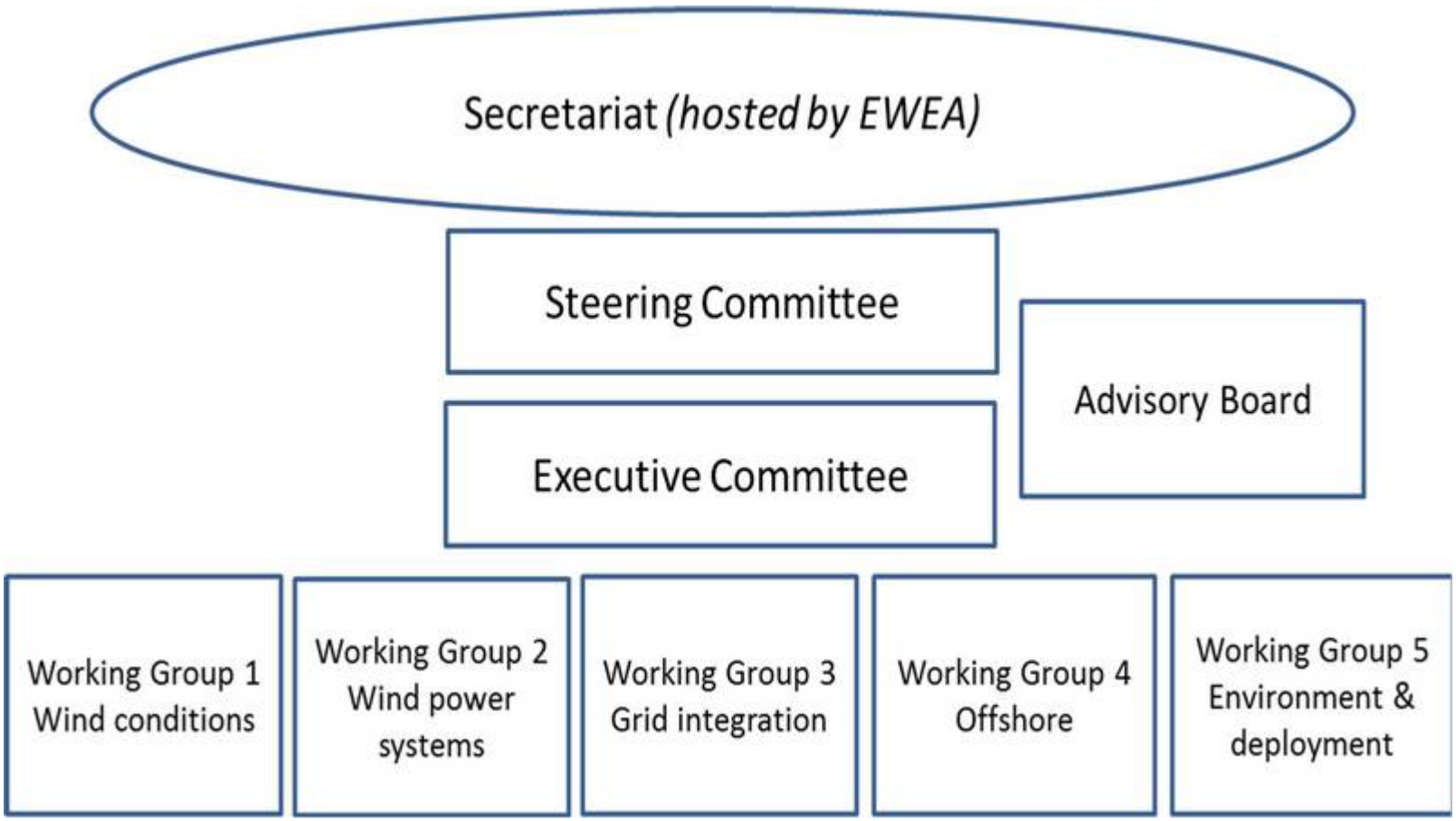
TPWind: structure



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Management of the platform

- Members of WGs and of the SC are selected through ad hoc calls for expression of interest.
- WGs members serve for a 3 years-period and they serve on a personal capacity.
- Selection takes into account:
  - ❑ industry/researchers balance;
  - ❑ gender balance,
  - ❑ nationality balance;
  - ❑ Big companies/SME
  - ❑ Sector of activitiy: manufacturers, developers, etc…
  - ❑ years of experience;

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Management of the platform

- 2 general assemblies per year – prepared and followed up by conference calls organized by the secretariat with chairs and secretaries of all WGs
- 2 steering committee per year
- 2/3 physical ExCo per year
- Monthly ExCo conference call
- One “energy event” per year organized in collaboration with the Advisory Board;
- One advisoy board meeting per year
- One comprehensive website: www.windplatform.eu – with access for members to all work documents

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TPWind, the SET-Plan and the EWI

The **Strategic Energy Technology Plan:** established an energy technology policy for Europe to accelerate the development and deployment of cost-effective low carbon technologies.

One of the goals: launch six **European Industrial Initiatives** (EIIs): long term large-scale programmes to accelerate the development of those technologies with the potential to contribute effectively to the decarbonisation of the European energy system.

EWI - European Wind Initiative: it includes representative of the industry and research sector, EC, EIB and Member States.

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How TPWind achieve his goals?

SRA/MDS

- Strategic document – up to 2030
- Objective: competitiveness of onshore wind energy by 2020 and of offshore wind energy by 2030.

EWI Implementation Plans

- Three-year period
- Detailed description of the overall R&D priorities and goals (including budget implications).

Yearly Work Programmes

- Yearly
- Detailed list of EU and national calls for proposals and budget allocations that can be easily implemented by relevant authorities

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TPWind, the SET-Plan and the EWI

The European Wind Initiative :

- Period: 2010-2020;
- Objectives:
  - Achieve an average 20% reduction of wind energy electricity production costs by 2020 (compared with 2009);
  - Enable a 20% share of wind energy in the final EU electricity consumption by 2020.
- EWI implementation: Wind European Industrial Initiative Team (Wind EII Team) *including TPWind, European Energy Research Alliance (EERA), EC, EIB and Member States representatives*.

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Annual work programmes - Horizon 2020

2014:

- Topic LCE-03-2014 - Wind energy: Demonstrating and testing of new nacelle and rotor prototype;
- Topic LCE-02-2014 - Wind energy: Develop control strategies and innovative substructure concepts;
- Topic LCE-04-2014 - Ensuring public acceptance and speedy/user friendly permitting procedures, facilitating the deployment of improved business models and innovative financing schemes;
- Topic BG-05-2014: Preparing for the future innovative offshore economy: analyse and identify the social and economic developments in the offshore economy including a review of marine renewable energy farms (both wind and ocean energy).

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How TPWind achieve his goals? Horizon 2020

2015:

- Topic LCE-05-2015 - Innovation and technologies for the deployment of meshed off-shore grids;
- Topic LCE-06-2015 - Transmission grid and wholesale market (*Demonstration of new approaches to the wholesale electricity markets facilitating the participation of variable renewable energy sources*);
- Topic LCE-03-2015 - Wind energy: Demonstrating innovative substructure and floating concepts;
- Topic LCE-02-2015 – Wind energy: Substantially reduce the costs of wind energy (offshore).

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Thank you for your attention!

http://www.windplatform.eu/

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