

50Hertz' Approach to Sustainability and the Power Grid

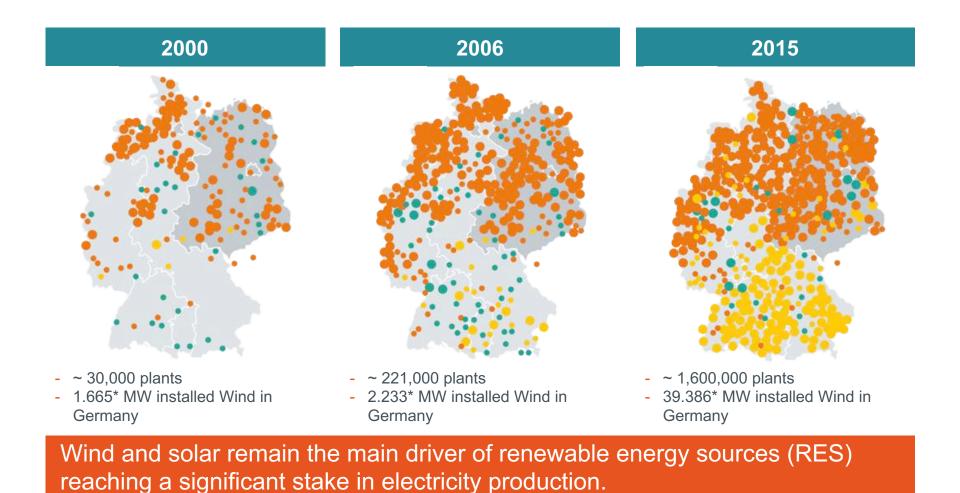
6th European Grid Conference "Sustainability and the Power Grid"

RGI Conference Brussels, 29 September 2016 Marco Nix, CFO 50Hertz





Renewables in Germany



50Hertz Approach to Sustainability and the Power Grid / Brussels, 29.09.2016 / Marco Nix, CFO

Biomass

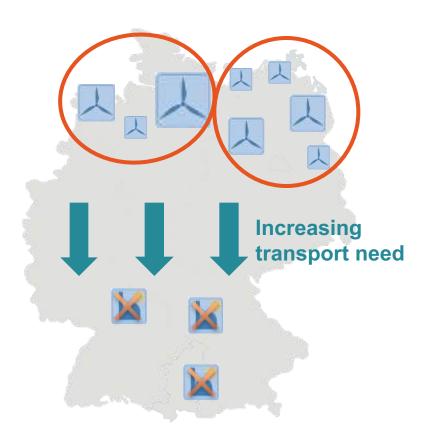
Solar PV

* BWE Figures

Wind



Renewables growth requires an adaptation of the transmission grid infrastructure



Existing extra-high voltage lines from North to South Germany are overloaded – this leads to high re-dispatch costs.

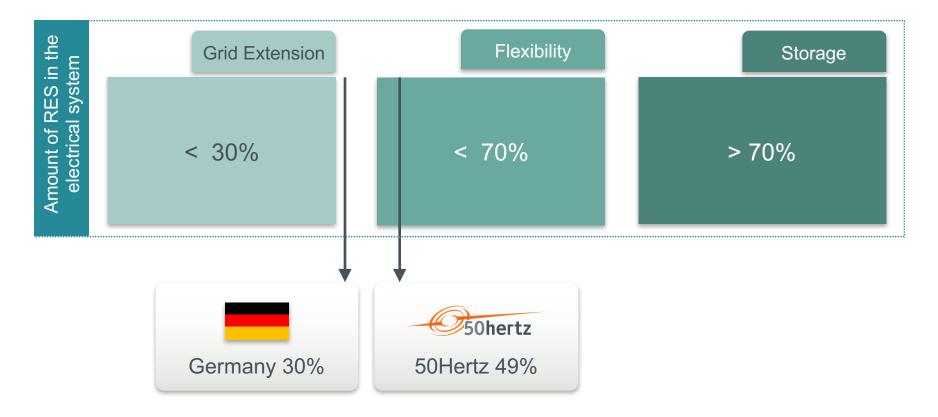
Further aggravation of the problem:

Wind power generation increases in the North. Due to the nuclear phase-out, output in the South will drop by about 8 GW.

Grid adaptation is key to successfully implement the energy transition ('Energiewende')



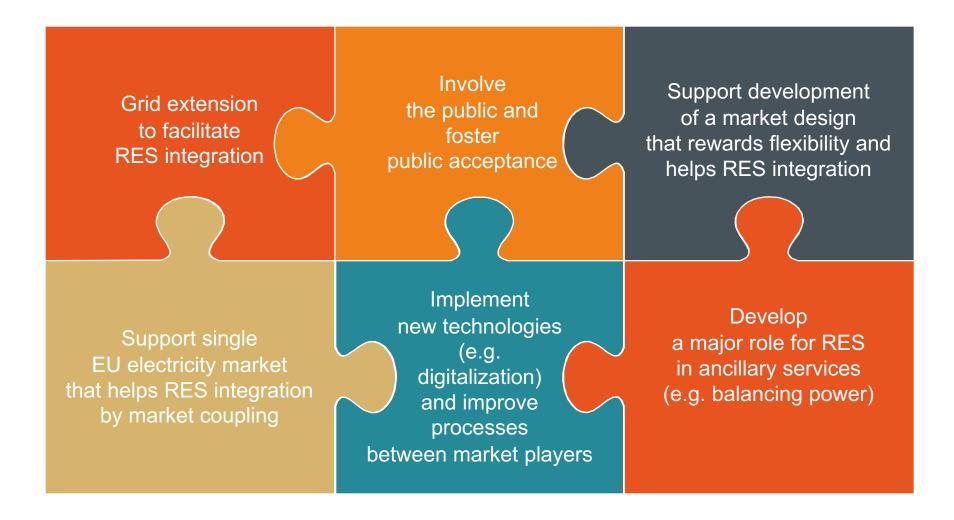
Adapting the electricity grid to RES growth rate



Grid extension is the most effective and efficient way to integrate a growing amount of renewables



50Hertz' contributions to a successful energy transition





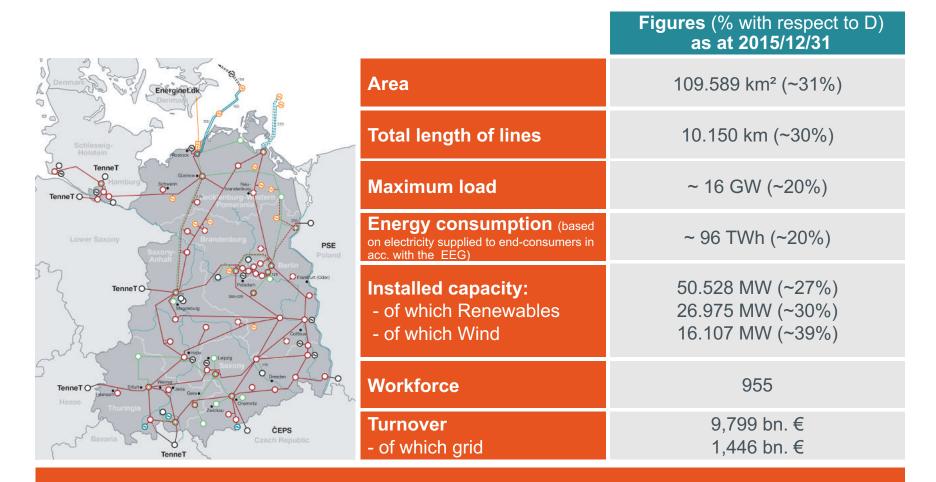
Growing investment volumes reflect need of transmission grid extension...



...and there is still some work to be done.



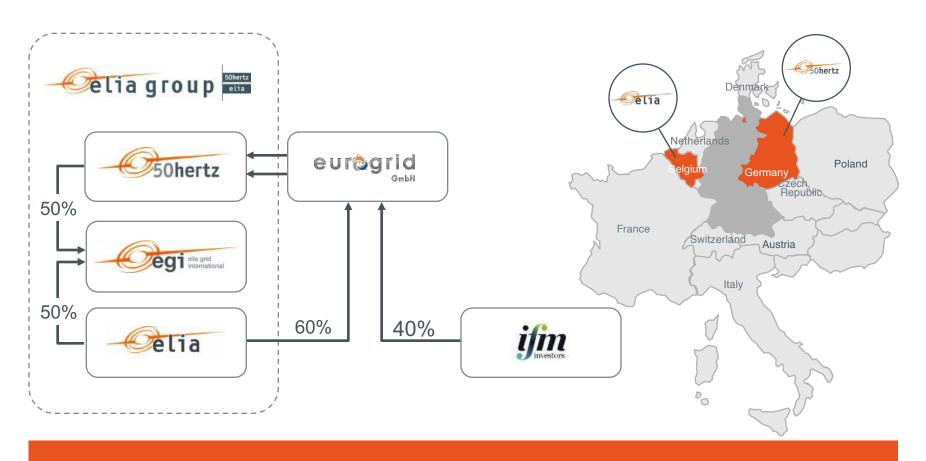
50Hertz at a glance



50Hertz has a leading role in integrating volatile renewables



Stable shareholdership



Long-term oriented equity investors supporting the energy transition



ESG rating performed with clear target to achieve high score in peer group

ESG-framework:	Environmental	Social	G overnance
Gesellschaft/ Stakeholder Engagement Mitarbeiter/ Soziales Nachhaltig- keit Ökonomie Governance Standards	Grid Extension	Public acceptance dia- logue with relevant stakeholders	IT Security
	Environmental Compensation	Compensation Payments to municipalities	EU Tender Procedure
	Energy (savings) Audit	Netzquartier	Balanced steering model
	UXO Clearing at Baltic Sea	Health and Safety Certification	Risk Management – ISO31000
	Bird protection (overhead lines)	Quorum Supervisory Board	Green funding options
	Ecological aisle management	Regular and sustainable sponsorings cooperations	Credit rating at investment grade

Transparency and consolidation of activities increased under ESG framework



50Hertz approach to environmental compensation

Portfolio of Ecological Compensation Measures

Individual measures

Implementation of individual environmental projects (fauna, flora, ...)

- Visible
- Lokal
- Sustainable

Eco Pools

Support of regional environmental projects implemented (fauna, flora, ...)

- Visible
- Regional
- Sustainable
- Effective

Compensation payments

Further allocated by communities and regions

- Flexible
- Efficient

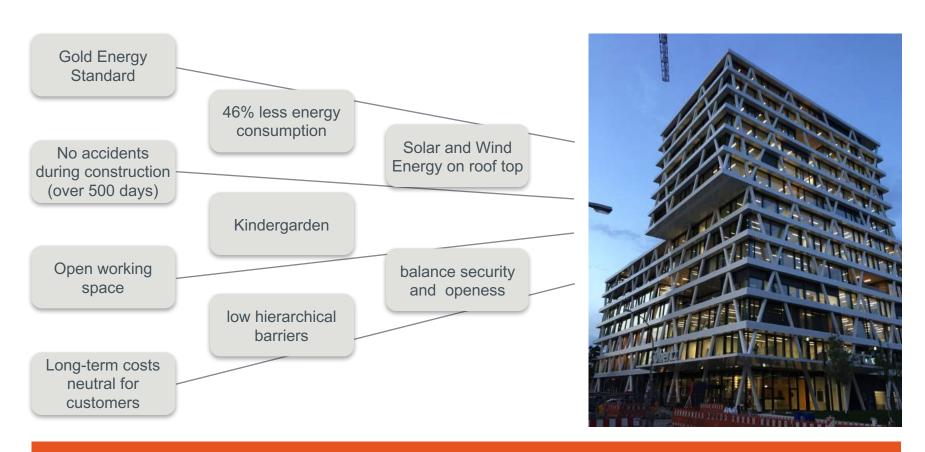




Five to ten percent of overhead grid project costs dedicated to environmental compensation



Netzquartier – the new 50Hertz headquarters



Netzquartier enhances communication and collaboration to increase effectiveness and efficiency



Steering of the company





50Hertz' Mission: We make the energy transition happen...





... for a sustainable world!



Many thanks for your attention!

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