

# Cooperation Fukushima & North Rhine-Westphalia in the field of Renewable Energy

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# North Rhine-Westphalia – Key Figures

- 17.8 million inhabitants ~ 22% of German population
  - 34,000 km<sup>2</sup> in area ~ 9,5 % of Germany
  - 520 inhabitants/km<sup>2</sup> highest in Germany
- Rhine-Ruhr area - biggest metropolitan area on the European continent (10 million inhabitants)
- Also rural areas with agriculture & forestry



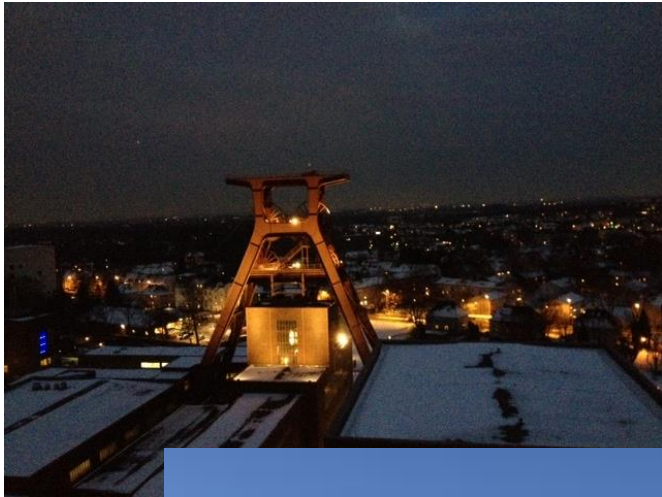
156 million consumer within  
a radius of 500 km

Source: NRW.Invest, wikipedia





# Energy Sector in North Rhine-Westphalia

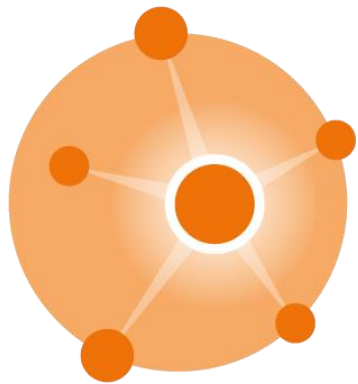


- 27 % of German electricity production (173.8 TWh) (2016)
- 27,6% of German electricity consumption (140.71 TWh) (2018)
- 43,760 MW<sub>el</sub> installed power generation capacity (2013)
- No nuclear energy, approx. 84 % fossil electricity generation
- 16 % of electricity consumption by renewable energies (12.9 GW) (2019)
- wind energy: 5,937 MW (+125 MW in 2019)
- solar: 5,377 MW (+471 MW in 2019)
- 200,000 employees in energy sector (2016)
- 44,000 jobs in RES business (2017)

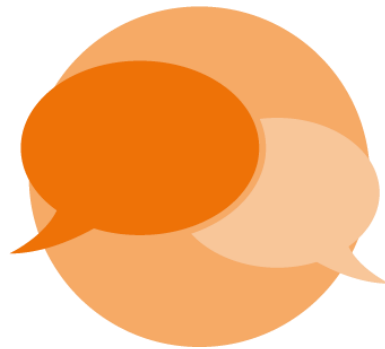
Source: EnergieDaten.NRW 2014, LANUV, BWE, GWS

# EnergieAgentur.NRW

Tasks are divided into four service areas:



Networks



Consultancy



Market  
initiatives



Public relations &  
knowledge management

# Target groups of EnergieAgentur.NRW



## Research and science sector

- 72 universities
- 100 university and 50 non-university research facilities



## Communities and administrative bodies

- 5 administrative districts
- 23 district-free cities
- 31 districts
- 373 municipalities

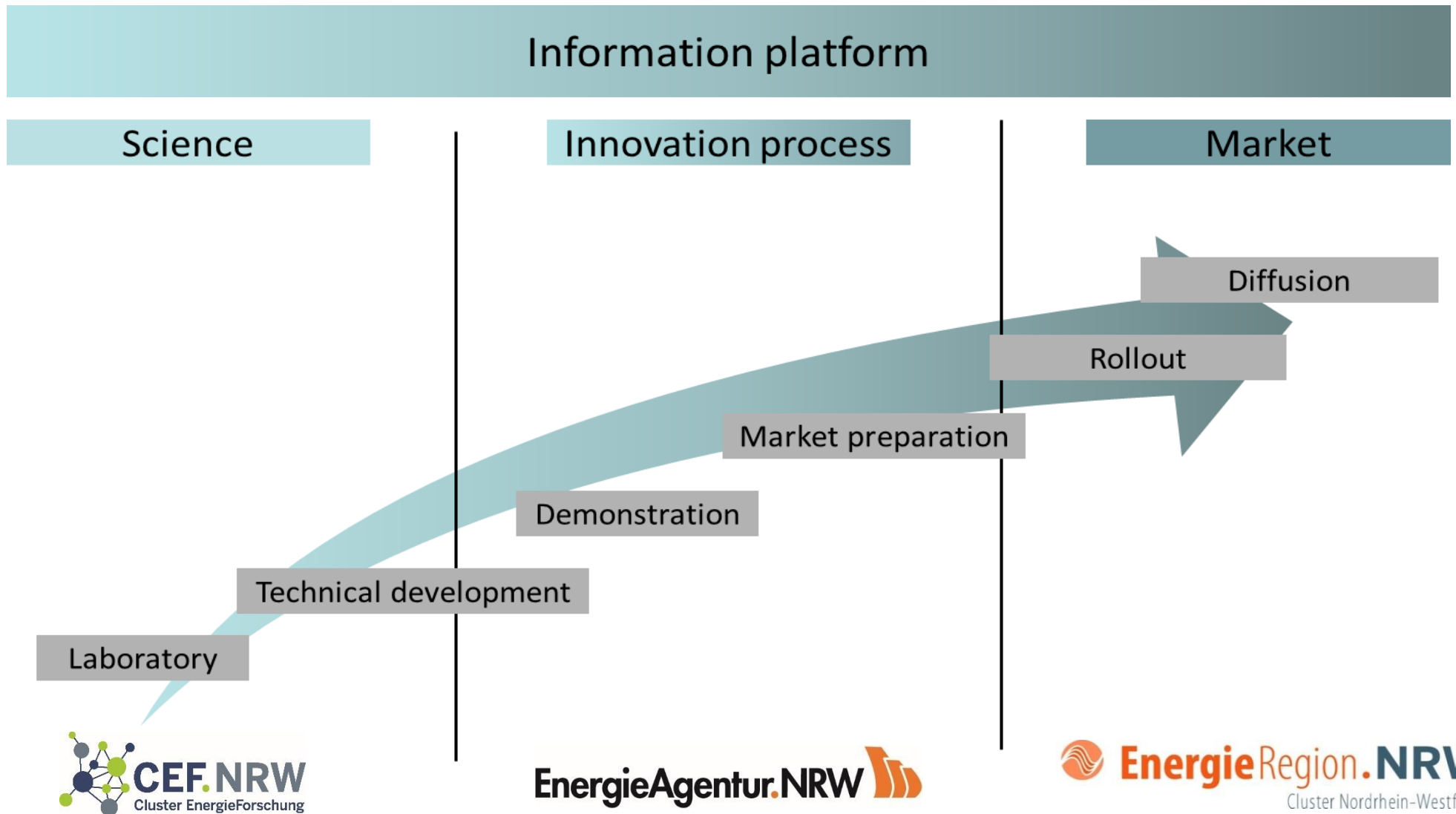


## Companies

- Approx. 800,000 companies
- with 6 million employees



# Technology innovation cycle in NRW







# The success story of the regional cooperation between the state North Rhine-Westphalia and the prefecture Fukushima implemented by the EnergyAgencies



## Cooperation Fukushima – North-Rhine-Westphalia



- started in 2013
- since 2014 joint declaration between Fukushima and NRW
- renewed and extended (hydrogen) in January 2017
- divers delegation visits in both regions to different topics: 4-6 visits per year
- annual trade fair participations: E-world in Essen and REIF in Koriyama
- regular workshops and conferences for instance:
  - NRW - Fukushima Seminar at REIF 2020 virtual conference
  - Virtual Hydrogen workshop during the REIF 2020
- broad information & experience exchange



Governor Uchibori and Minister Remmel signing MoU in 2017



## Cooperation Energy Agency. FUKUSHIMA - EnergieAgentur.NRW

- since 2014 collaboration with Fukushima Renewable Energy Research Association
- Energy Agency.FUKUSHIMA started in April 2017
- Signed MoU in November 2017
- **Topics:** Bioenergy, Wind energy, Geothermal energy, Photovoltaics, Fuel cells and Hydrogen technologies, Storage technologies, Integration of renewable energies in the power, heat and transport sector, Market schemes and strategies



## Support for companies

- since 2013 annual trade fair participations (E-world, REIF)
- REIF 2018 in Koriyama: 8 NRW companies supported by NRW.International
- workshops and seminars to present technologies and business opportunities
- B2B matchmaking to find new partners
- company / project visits to learn from each other
- supporting tool: JETRO's Regional-Tie-up programme since 2016

**REIF****E-world**  
energy & water



# Impressions from REIF 2018

B2B meetings



Visit of Vice-Gouverneur Hata

Seminar



Project visits



Bioenergy Workshop





# Cooperation Energy Agency. FUKUSHIMA - EnergieAgentur.NRW

Summer Workshop of EnergyAgency. FUKUSHIMA  
and EnergieAgentur.NRW in July 2019



## Conclusion

- divers discussed topics & broad information exchange
- technologies (e.g. bioenergy, hydrogen, wind energy, PV, buildings)
- market conditions & business models, financial aspects, cluster policy
- 4-6 delegation visits per year in Japan and Germany
- workshops, seminars, trade fair participations in both regions
- financial incentives for companies like JETRO's RIT programme or Fukushima subsidies
- intense cooperation
- promising outlook for next years
- Coming next: E-World 2021 and REIF 2021

**Thank you for your cooperation!**



ご静聴ありがとうございました。  
Thank you for your attention!

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