



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 km² in area ~ 9,5 % of Germany
 - 520 inhabitants/km² highest in Germany
- Rhine-Ruhr area - big 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

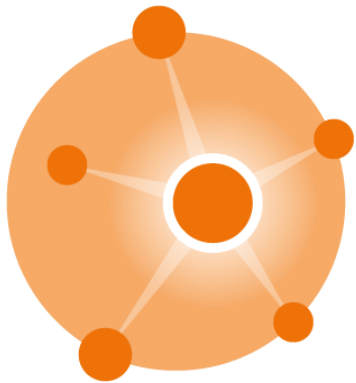


- 27 % of German electricity production (173.8 TWh) ⁽²⁰¹⁶⁾
- 27,6% of German electricity consumption (140.71 TWh) ⁽²⁰¹⁸⁾
- 43,760 MW_{el} installed power generation capacity ⁽²⁰¹³⁾
- No nuclear energy, approx. 84 % fossil electricity generation
- 16 % of electricity consumption by renewable energies (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⁾
- Accelerated growths in Renewable Energies by 2030
 - Wind energy to 10.5 GW (2018: 5.8 GW)
 - PV to 11.5 GW (2018: 4.9 GW)

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

EnergieAgentur.NRW

Tasks are divided into four service areas:



Networks /
Cluster



Initial
consultancy

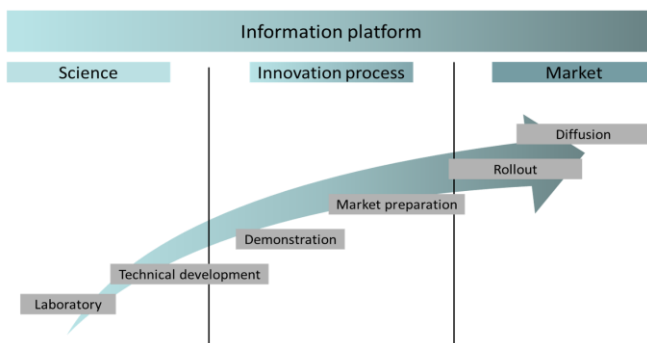


Market
initiatives



Public relations &
knowledge management

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



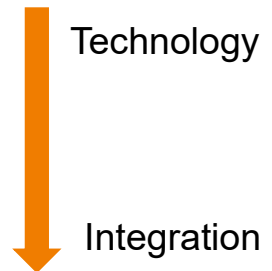
- impulse 15.03. 2011, started in 2013 (political partnership)
- since 2014 joint declaration between Fukushima Prefecture and NRW Ministry
- renewed and extended (hydrogen) in January 2017 and October 2019
- divers delegation visits in both regions to different topics: in total 4-6 visits /a
- annual 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
 - JETRO Düsseldorf, Consulate General Düsseldorf
 - NRW-Japan K.K. Tokyo



Extension of the MoU between NRW and Fukushima signed by Fukushima governor Masao Uchibori and NRW minister of economy Prof. Dr Andreas Pinkwart, October 2019

Cooperation Energy Agency. FUKUSHIMA - EnergieAgentur.NRW

- since 2014 collaboration with Fukushima Renewable Energy Research Association (existing cluster)
- Energy Agency.FUKUSHIMA started in April 2017
- Signed MoU in November 2017, extension in 2021
- **Topics:** *Photovoltaics, Wind energy, Geothermal energy, Bioenergy, Fuel cells and Hydrogen technologies, Storage technologies, integration of renewable energies in the power grid, heat and transport sector, market schemes and strategies*



Operational Partnership



Support for companies

- since 2013 annual trade fair participations (E-world, REIF)
- 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



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



EA.F & EA.NRW one team

Working Plan 2021

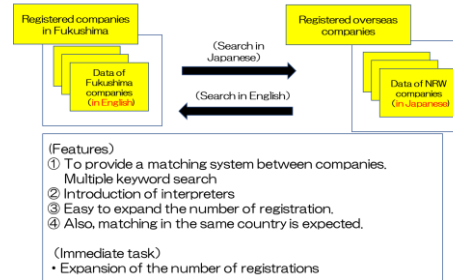
FC-Expo 2021
Hybrid exhibition
In Tokyo



Monthly virtual meeting EA.F and EA.NRW



New B2B Matching side
- Rollout in June
① EAF-B2B Matching Site



~~**Husum Wind Fair**
Visitors program~~



2020

4 Qrt.
2020

REIF 2020
First hybrid exhibition
3 companies onsite
5 companies in NRW

1. Qrt.
2021

~~E-World 21~~

2. Qrtl.
2021



Prolongation MoU
EA.F and EA.NRW
- until end of 2021

3. Qrtl.
2021

~~Political Trip to NRW
Visitors program~~



Summer Camp
EA.F and EA.NRW
- in planning (virtual)

4. Qrtl.
2021

REIF 2021
Real / Sec.
hybrid exhibition
- in acquisition



Cancellations because of Covid-19

~~New: Employee exchange program 2021~~

Conclusion

- divers discussed topics & broad information exchange
 - Energy 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
- Links to Osaka and Yamanashi are growing
- Very intense cooperation / monthly meetings with EA.Fukushima
 - this work is a criteria for employment in the EA.NRW
- Coming next: Summer Camp 2021 (virtual); REIF 2021 (real?)

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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