

01.03.2023

Deutsch-Polnisches Energiewendeforum Geschäftsmodelle und Technologien

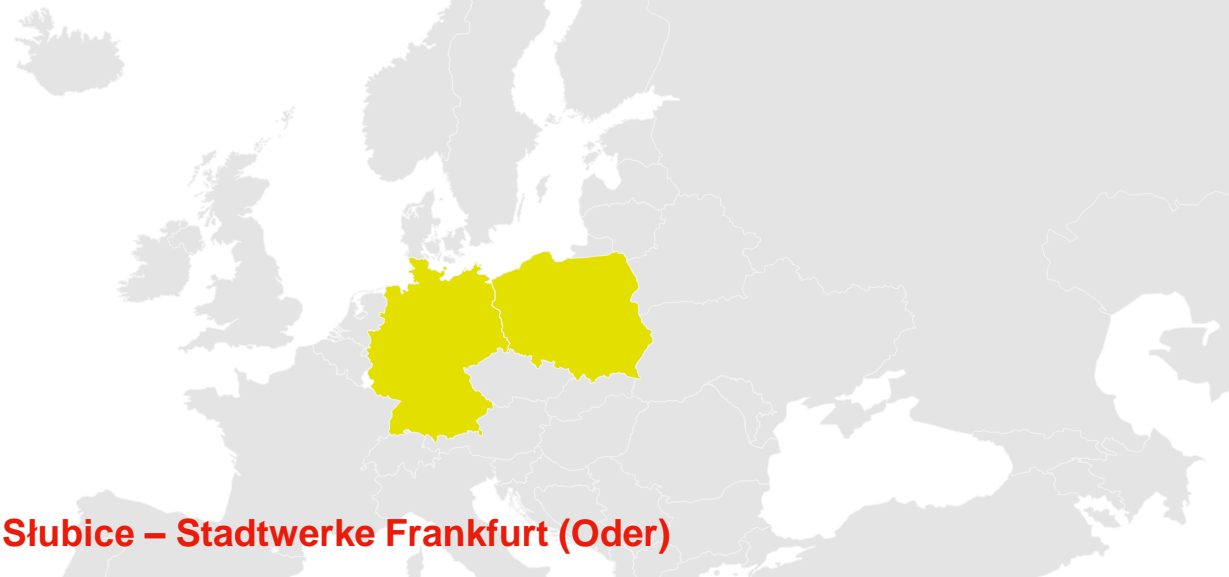


Lessons Learned

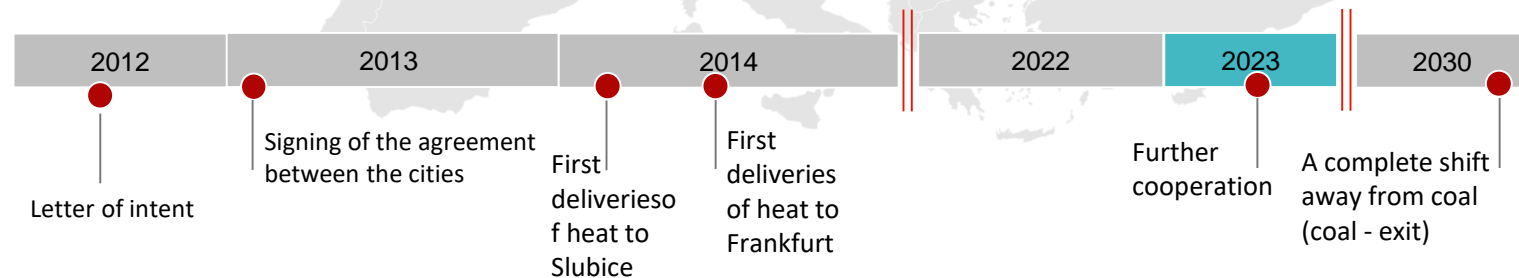




Cooperation - timeline



SEC Region / Slubice – Stadtwerke Frankfurt (Oder)

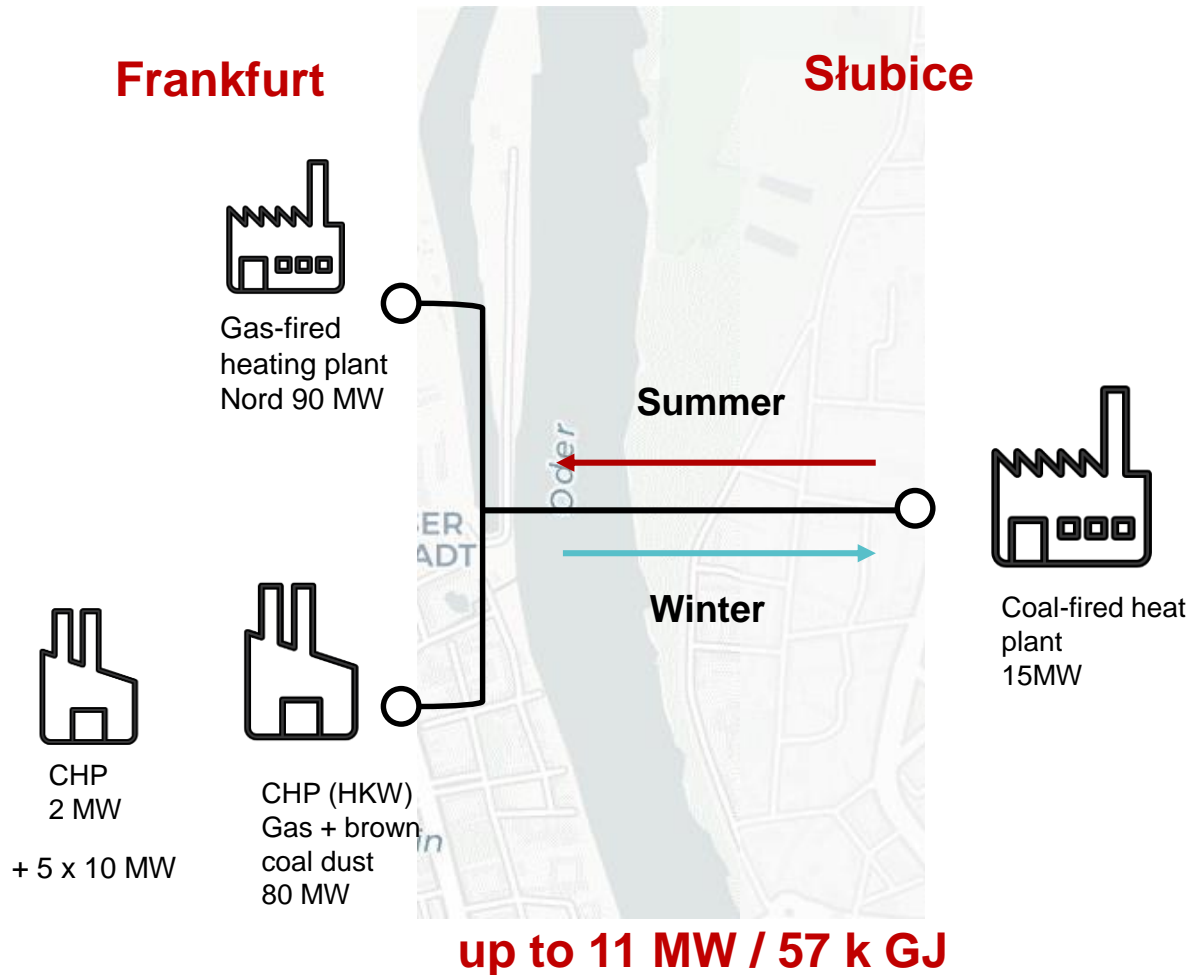


Contract provisions

- Contract signing: 11.04.2013 r.
- Start of heat supply: 04.03.2015.
- End of contract term*: 31.12.2028 r.

* The contract is renewed for another five years each time, unless terminated by one of the Partners.,

SEC Region - SWF Cooperation



Technical and economic assumptions of the project:

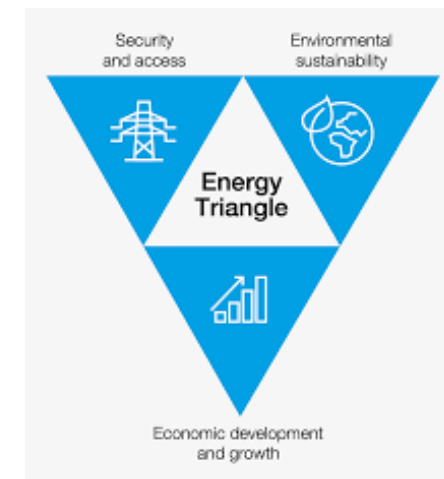
- Summer period: Słubice (SLU) supplies 56,898 GJ to Frankfurt (SWF).
- Winter period: SWF supplies heat to SLU - 56,898 GJ, (SLU produces the remaining energy from its Heat Plant)
- The balance of heat exchange between SLU and SWF is about 56,898 GJ annually

The current arrangement of SLU-SWF sources

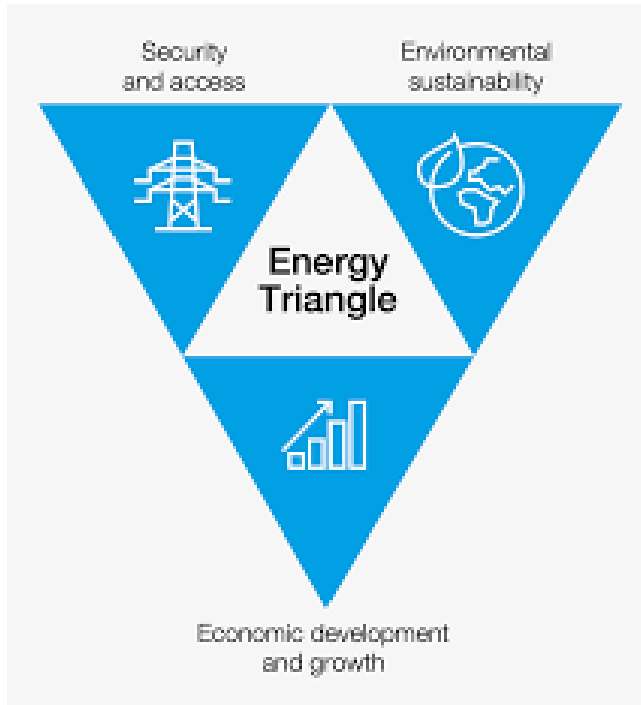
Construction of new cogeneration gas engines in SWF - 03.2022

- **Rational: Heat Exchange during summer from Słubice to Frankfurt, rest of the year from Frankfurt to Słubice**
- **Both cities are better off, but this should be only a first step because**

...



Ambitious Targets need Bolder Decisions



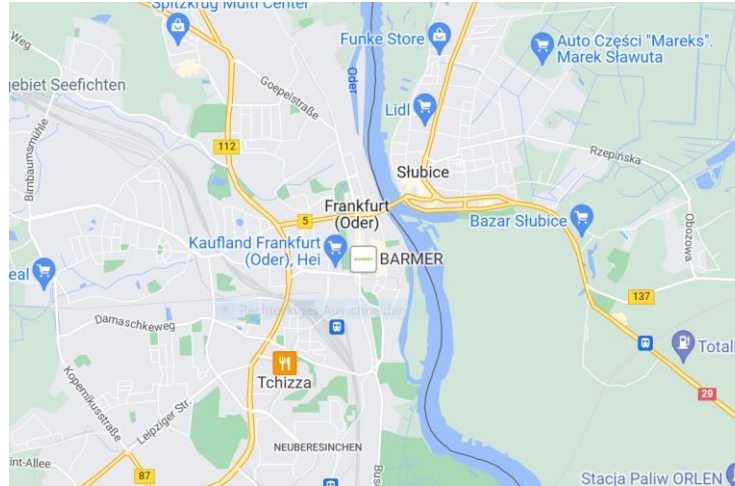
- Mandatory decarbonisation of district heating
 - Slubice: Hard Coal, FFO: Natural Gas
- Economies of scale: Slubice is growing, FFO is in a turnaround situation
- Economic potential of real-time optimization of demand & supply is huge in energy systems based on decentralised generation

- Political tailwind is needed to release full benefit of available solutions
- Urgent actions are needed with respect to ambitious time-frames.
- Consequence of do nothing means cementing of status quo!

Cities in the Middle of Europe



Very similar at first glance



Konin: approx. 80.000 inhabitants, near river Warta

Slubice/Frankfurt (Oder): approx. 20.000/60.000 inhabitants, left and right to the river Oder

Magdeburg: approx. 240000 inhabitants; located on the river Elbe

270 km

270 km

But very different from legal/regulatory perspective

	EU Law	EU Regulation	National Law	Energy Regulation	Subsidies
Frankfurt (Oder)	✓	✓	German Law	BNetzA	European & German
Slubice			Polish Law	URE	European & Polish
Konin	✓	✓	Polish Law	URE	European & Polish
Magdeburg	✓	✓	German Law	BNetzA	European & Polish

- **Law of Nature and Feasibility of Technical Solutions is not a Road Blocker!**
- **Room for Improvement in order to speed up transformation of infrastructural systems!**



SEC Region - SWF Cooperation

Conclusions

- Cooperation between SEC Region and SWF is going well.
- Until solutions are found for „border cities" business and optimization will be disrupted.
- It was mutually agreed that the Frankfurt and Slubice systems should be treated as one system. Also, to be determined is whether the construction of new sources should take place in Frankfurt or Słubice. Growth of generation capacities is needed due to the favorable overall development of Subice and Frankfurt.
- Decarbonization decisions are on both sides.
- We need to work together to be able to successfully decarbonize systems but most importantly to ensure the city's energy security.
- **We need to think about the security and comfort of citizens together**



„We need to think about the security and comfort of citizens together...”



Thank you for your attention