

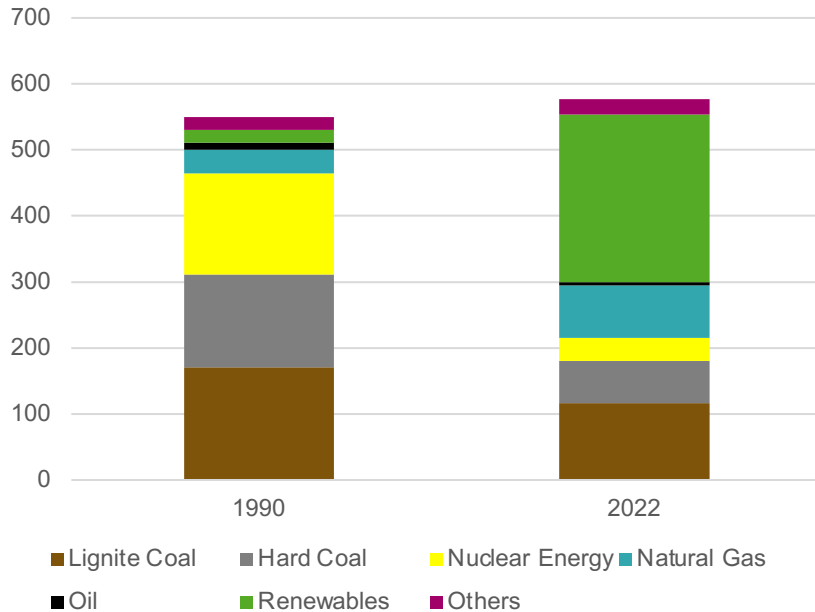
Grids in the German Energy Transition

Grids, Gardens & Community

Johanna Meier, Senior Expert Future of Energy Supply, 19.10.2023

Germany is transitioning from Coal and Nuclear towards Renewables

Electricity Mix Germany (TWh)



An energy system based on renewable energy sources means that fluctuations in electricity generation need to be levelled out



This can be achieved through flexibility resources (flexible power generation sites or energy storage) as well as through better connectivity within the electricity grid



The energy transition will require a massive build out of electricity grids throughout Europe

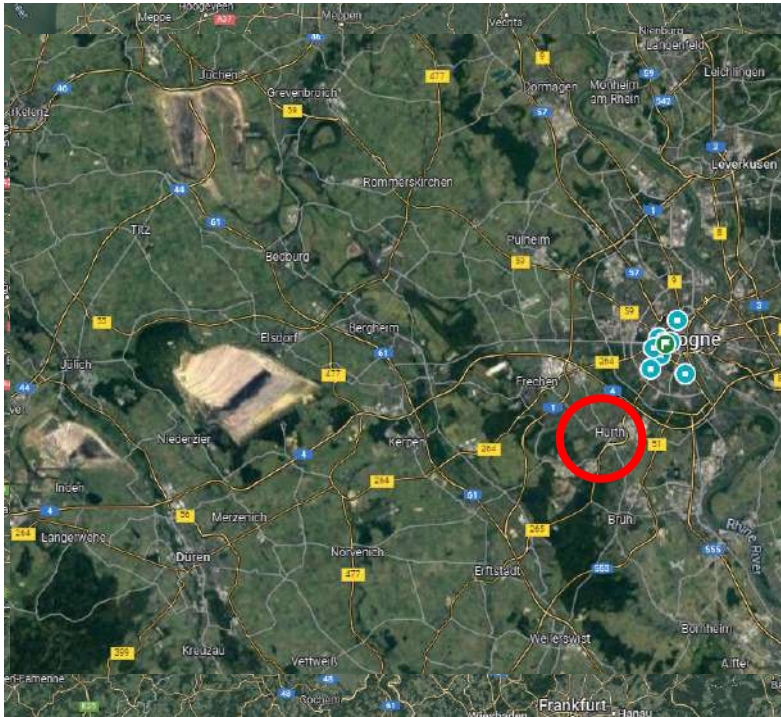
Public opposition is one of the main factors for delay in the build-out of grids



- Transmission lines currently take many years from planning to completion
- Public opposition can delay grid projects from the outset as well through lengthy court proceedings
- Key solutions are early participation with a high degree of transparency and a real possibility to influence the outcome
- Creating (visible) local benefits is another, often underused possibility to foster support

The region

The former lignite regions in Germany are undergoing a significant structural transition



- North Rhine Westphalia is a traditional hard and lignite coal region, with the lignite mines still in operation
- Phase out is planned until 2038
- Existing power lines are reinforced to accommodate renewables (close to border Belgium/Netherlands, transfer between North and South Germany)



Bürgergarten

Agenda Hürth e.V.



The Beginning

Some of the Crew



Hard Work





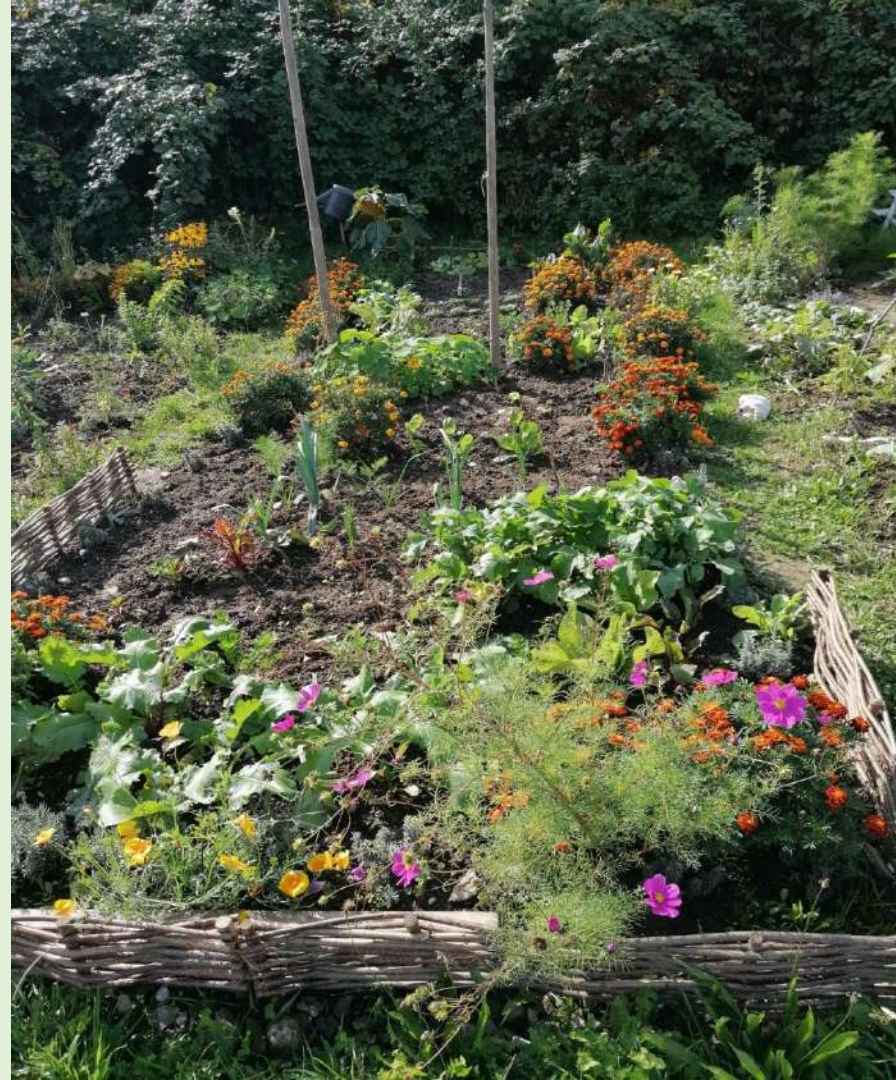
**First
Success**

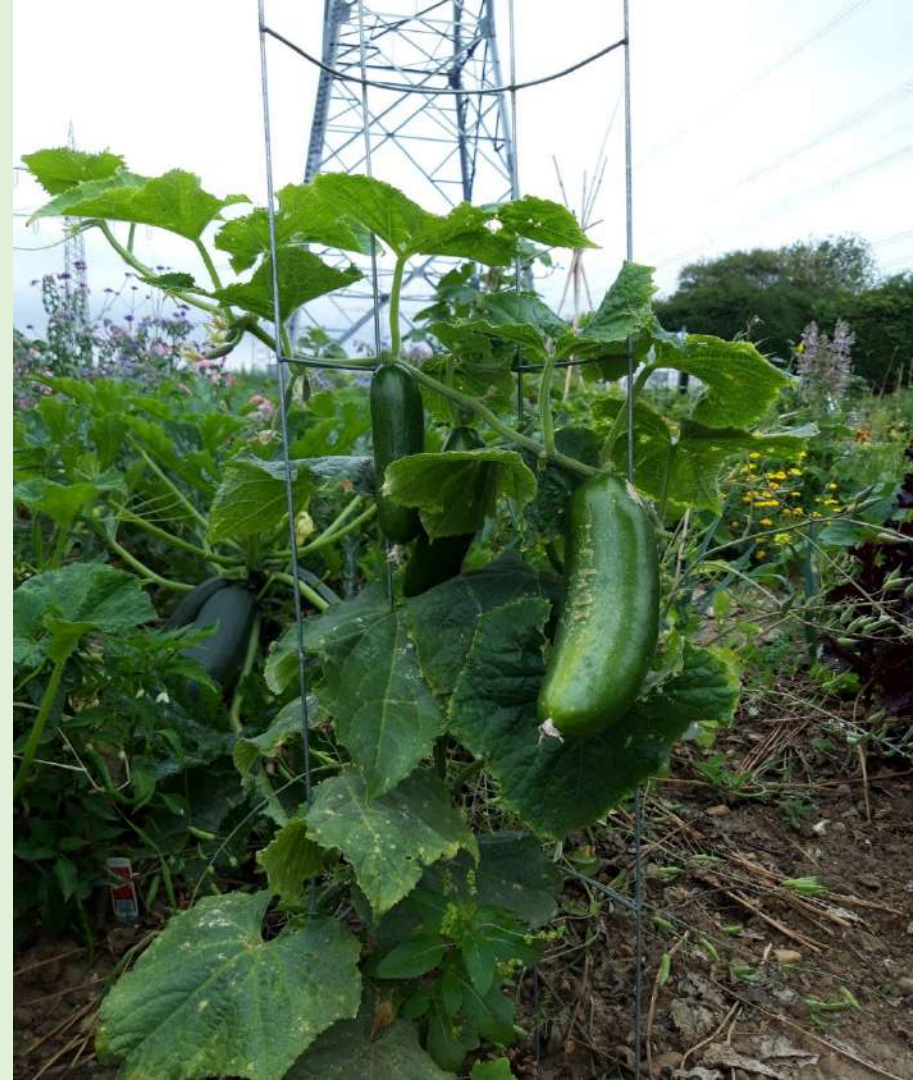


**Many
Working
Hours
Later**



Colourful Diversity







Success Factors

Success Factors



Very good cooperation with the city



Support from the municipal utilities



Cooperation with Penny (supermarket)

Success Factors



Very good cooperation with the city



Support from the municipal utilities



Cooperation with Penny (supermarket)



successful integration project



ecological learning project

Success Factors



Very good cooperation with the city



Support from the municipal utilities



Cooperation with Penny



successful integration project



ecological learning project



Increasing biodiversity



**One of our new
Residents**



Thank you!

Contact

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Pächter	Tenants
Parzellen	Plots
Fluktuation	Fluctuation
selbstorganisiert	Self-organised
Netzbetreiber	Network
Erlaubnis	operator
Warteliste	Permission
gutes	Waiting list
Miteinander	Good
Lernen	cooperation
miteinander und	Learning with
voneinander	and from each
Beiträge	other
	Contributions