

OVERVIEW

- 1. Where is Garzweiler?
- 2. Why is Garzweiler so significant?
- 3. What is the meaning for Economy and Industry?
- 4. Historical Background
- 5. Kaster as an example
- 6. Garzweiler I& II
- 7. Impact on Villages
- 8. Technology Used in Garzweiler
- 9. Environmental Consequences and Resettlement
- 10. Protest and Poltics
- 11. Future of Garzweiler
- 12. Conclusion



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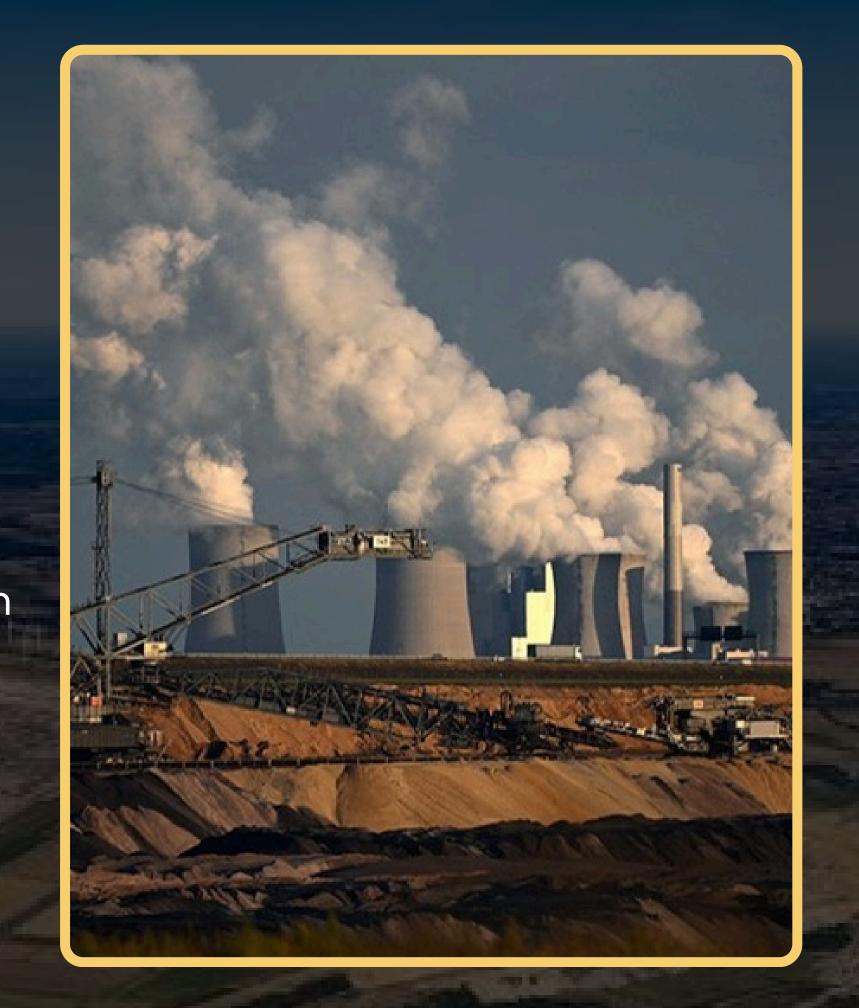
GARZWEILER?

- Located in North Rhine-Westphalia,
 Germany
- Near Cologne, Düsseldorf, and
- Mönchengladbach
- Large open-pit lignite (brown coal)
- mine
- Visible from above as a massive scar on the landscape



INHYS GARZINEILER SO SIGNIFICANT

- Key site for Germany's energy production
- Supplies brown coal (lignite) to power plants
- Provides electricity to households and industries



WHAT IS THE MEANING FOR ECONOMY AND INDUSTRIES?

- Thousands of jobs in mining, transport, and energy sectors
- Major driver of regional economic growth
- Growing protests against coal due to climate concerns
- Transition to renewable energy planned → both opportunity and challenge









HSTORICAL BACKGROUND

- Little protest against resettlement of entire villages
- Old houses without bathrooms or heating considered of little value
- Compensation allowed residents to build modern houses
- Many residents worked for Rheinbraun



- Medieval town with city gates and baroque buildings
- Demolition almost approved in 1954, but prevented by mayor, conservator, and regional president
- Historic town saved a rare example





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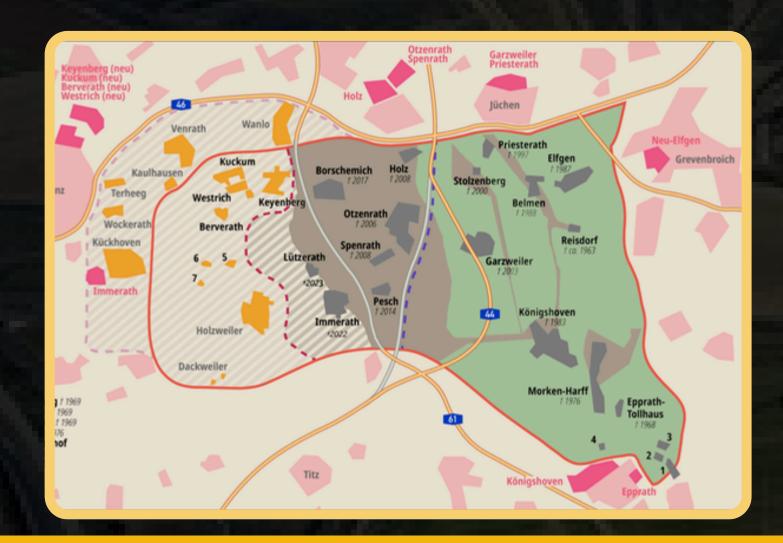
- Garzweiler I: opened 1983
- Garzweiler II: approved in 2006, mining started
- Total area >100 km3, coal
 reserves ~ 1.6 billion tons, annual
 production up to 45 million tons
- Coal seams up to 210 meters

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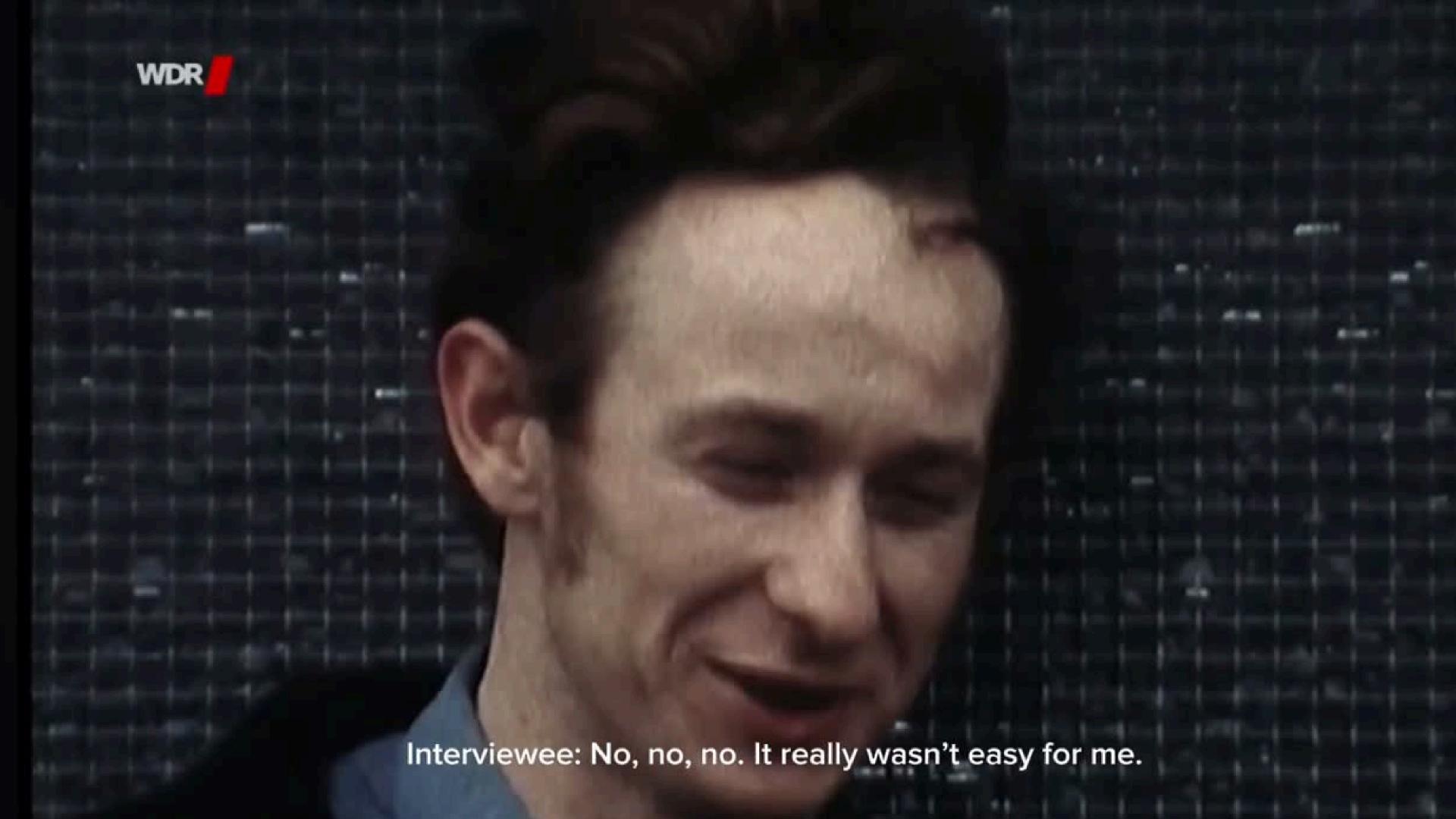
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IMPACTON VILLAGES

- Over 40 villages disappeared (e.g., Immerath, Otzenrath)
- New settlements: modern and practical, but without original village structures
- Loss of homeland and emotional burden for residents







TECHNOLOGY USED IN INTHEGARANEILER

- Huge machines are used
- Bucket-wheel excavators, conveyor belts, stackers
- Coal goes directly by conveyor belts to power plants
- After mining: area planned to become "Lake Garzweiler"
- Depth: 165 m
- Size: 2,200 hectares
- Shoreline: about 20 km









ENVIRONMENTAL CONSEQUENCES

- Forests, fields, and animal habitats destroyed
- Groundwater is lowered → springs and soils dry out
- Burning coal = high COz emissions, bad for climate
- New lake and recreation areas planned, but recovery takes decades





PROTEST AND POLITICS

- Many protests by environmental groups and local citizens such as ""Ende- Gelände or " Friday for Future"
- Lützerath became a symbol of climate protests
- Activists lived in houses and blocked machines
- Ongoing debates: does coal mining fit
- Germany's climate goals?



HURE OF GARZNEILER

- Coal phase-out accelerated to 2030, cutting mining area in half
- Many villages and farms preserved, avoiding further resettlement
- After mining ends, creation of Garzweiler Lake with natural shorelines
- Lake and landscape restoration for recreation and biodiversity
- Region to develop renewable energy sites solar, wind, and innovation hubs
- Focus on sustainable, climate-friendly economic







CONCLUSION

- Garzweiler has greatly transformed the region
- Once a cultural landscape with villages, farms, and fields
- Now dominated by industry and open-pit mining
- Huge machines shape and control the area
- The once familiar place has turned into something completely different

