



NET ZERO LEJ

Towards climate-neutral flying

AIRBUS

DHL
Group

HI2E

INFRALEUNA

FLUGHAFEN
LEIPZIG-HALLE

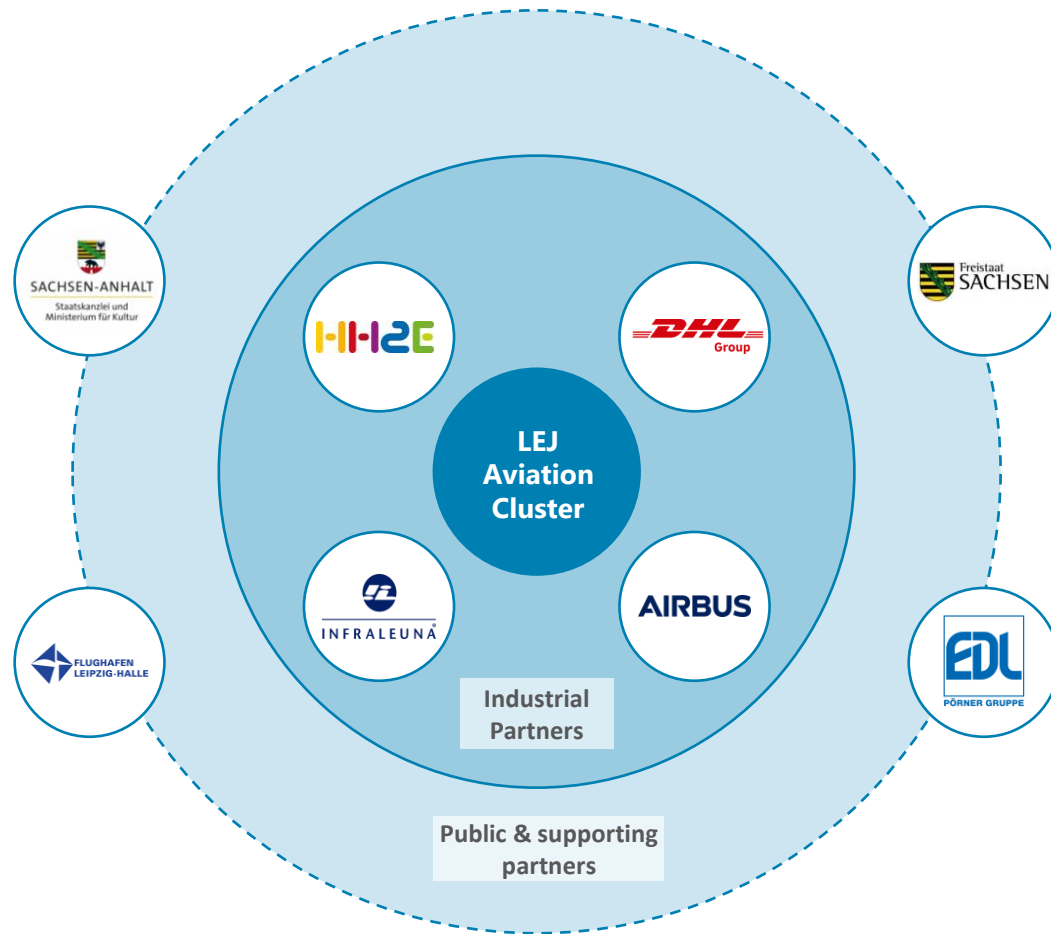
EDL
FÖRNER GRUPPE

WHO ARE WE?

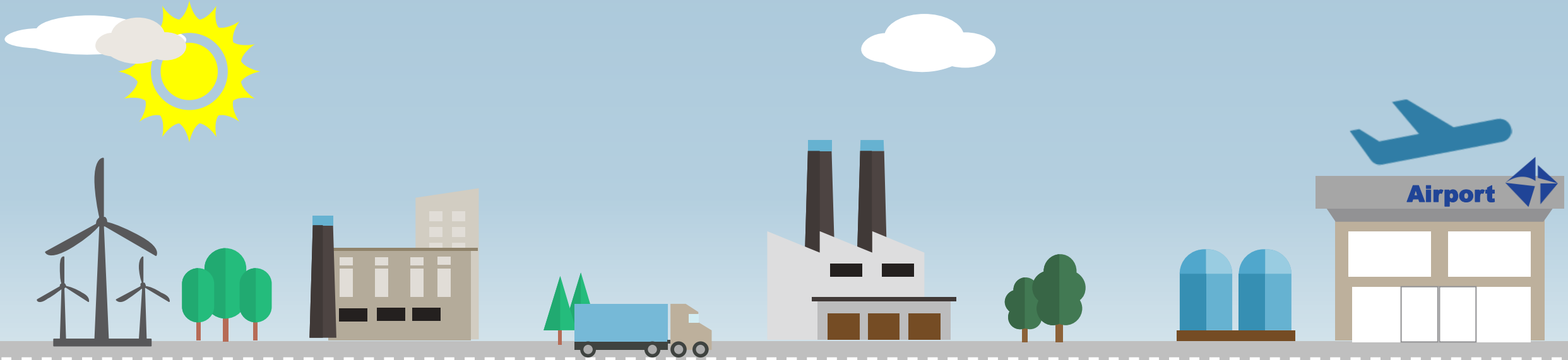


About the project

A consortium in the region around Leipzig/Halle Airport conducted a **financial feasibility study of local sustainable aviation fuel (SAF)** production and use



The NetZeroLEJ consortium partners along the SAF value chain



**Green
Energy
Production**

**Hydrogen
Production**

**SAF
Production**

**Storage &
Fueling**

SAF Usage



WHAT IS OUR VISION?





Situation & Vision I

NetZeroLEJ plays a **pioneering role** in **sustainable aviation** being **lighthouse endeavor** for the entire industry.

Situation & Vision I

H₂-Producer

 Schkopau / Thierbach

 4 GW/a in 2030 total German Capacity

NetZeroLEJ Plant

 Leuna


 200,000 t SAF/a from 2030


Hykero Plant

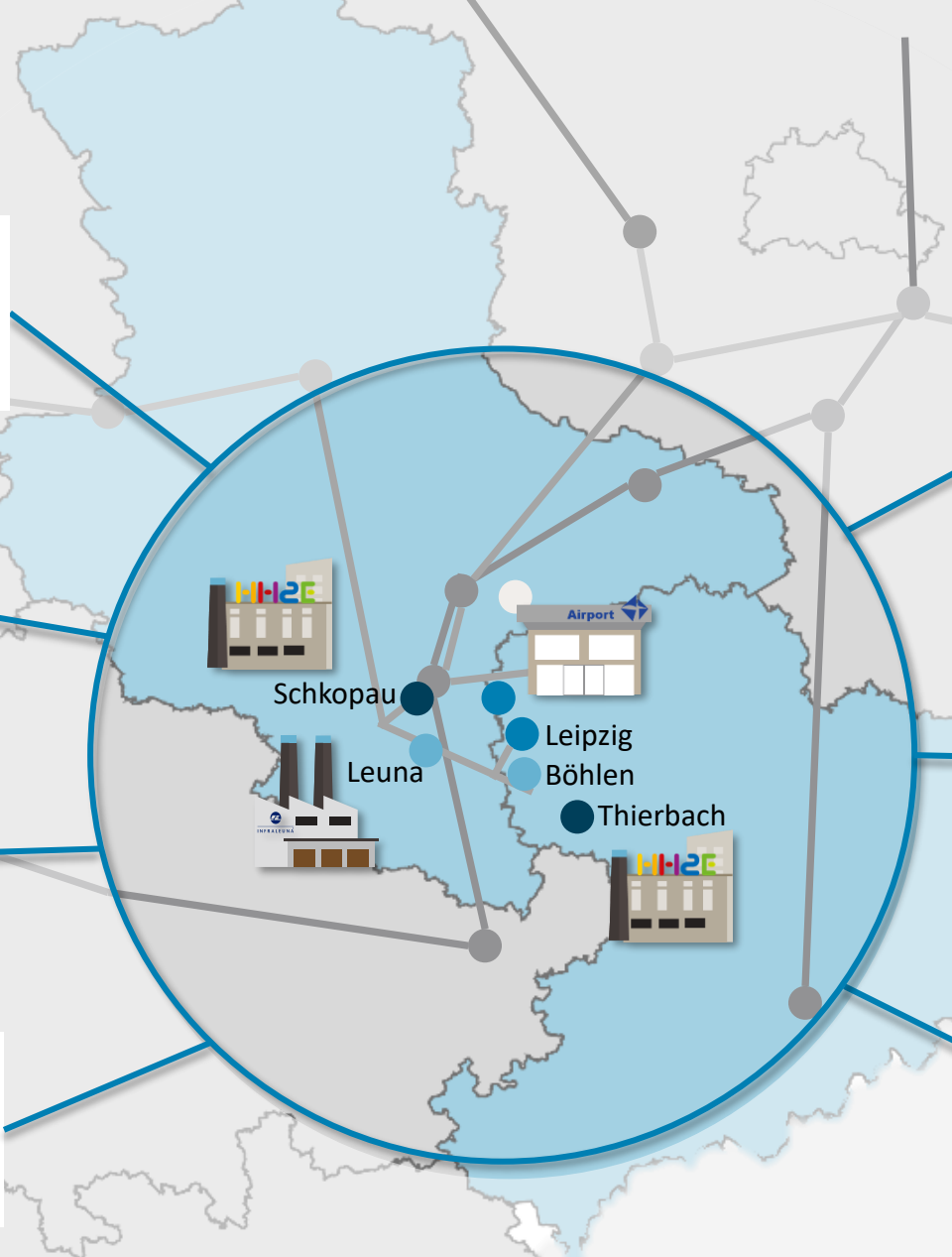
 Böhlen

 50,000 t SAF/a from 2028

Federal States

 Sachsen / Sachsen-Anhalt


 Structural development and coal phase-out



Airport Leipzig/Halle


 Schkeuditz


 Net Zero by 2030




Offtaker


 Schkeuditz


 30% SAF-Quota in 2030



Leipzig H₂O-Value Chain

 Central Germany / Leipzig Region

 Regionally networked hydrogen system



Situation & Vision II

NetZeroLEJ would **contribute significantly** to Germany's **sustainability goals and structural change** in Saxony and Saxony-Anhalt.

Situation & Vision II

200.000 t

PtL SAF

33% of German SAF demand based on ReFuelEU quota & 100% of the German PtL Roadmap goal² in 2030

110.000 t

green Hydrogen

Around 3% of the German total hydrogen demand in 2030 based on the German national hydrogen strategy³

630.000 t

CO2 Savings

2.4% of CO2 emissions of all flights departing from Germany in the year 2023¹

Structural Change

Support in Sachsen & Sachsen-Anhalt

Creation of future-resilient jobs and knowledge, turning polluting into green industries, supporting green energy transition and thus, enhance local value

1) EUROCONTROL Aviation Sustainability Unit

2) BMDV - Projection from PtL Roadmap 2030

3) BMWK - Die Nationale Wasserstoffstrategie



WHICH CHALLENGES DID WE IDENTIFY?



Challenge I

High green electricity and **financing costs** as well as **regulatory uncertainties** are the biggest hurdles to realization.

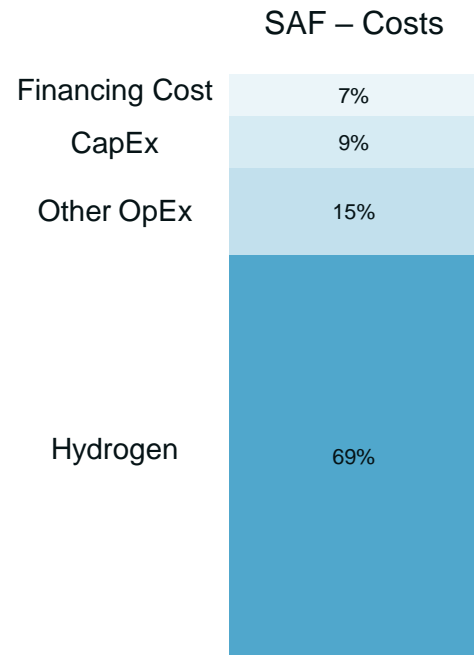


Challenge I

The biggest cost driver for PtL SAF is hydrogen

Hydrogen Costs

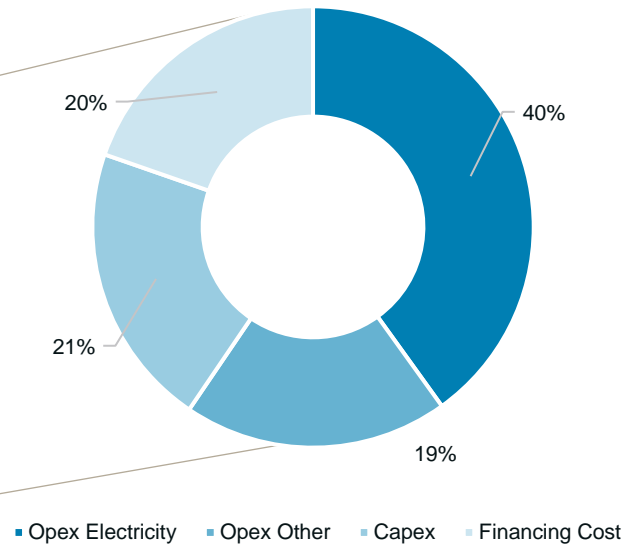
Around **70%** of PtL-SAF Costs



Electricity Costs

Around **40%** of Green Hydrogen Costs

Hydrogen – Costs



Financing Costs

Around **20%** of Hydrogen Costs



Challenge II

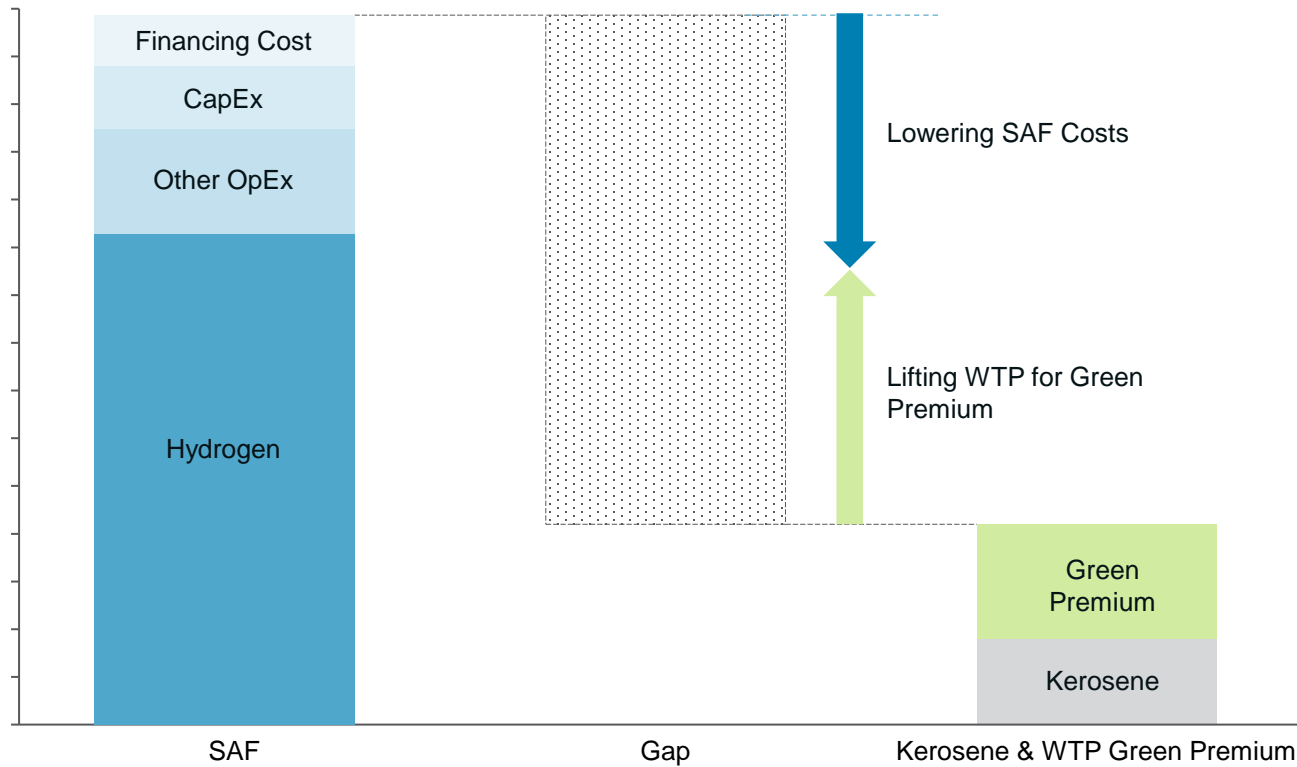
Compared to kerosene, the **PtL SAF costs** are significantly higher, although the **willingness to pay a green premium** is not sufficient to offset the difference



Challenge II

The PtL SAF costs are higher than the current kerosene prices and the additional willingness to pay (WTP) a Green Premium

PtL SAF costs compared to kerosene and Green Premium costs



WHICH **SOLUTIONS** WOULD
HELP US OVERCOME THE
CHALLENGES?

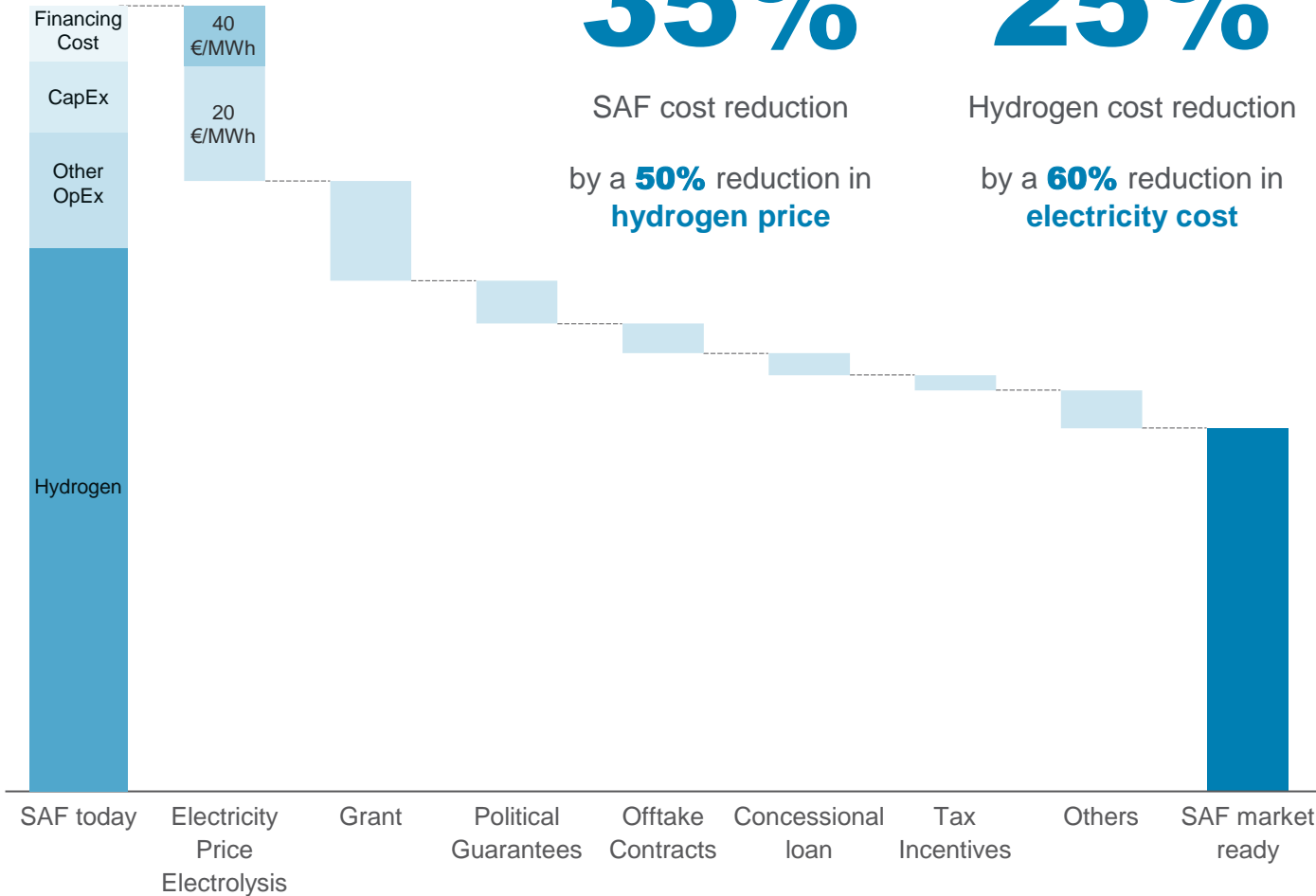


Solution I

A **combination of policy instruments** is required to make PtL-SAF produced in Germany competitive at global scale.

Solution I: From today's costs to feasible costs

Bring down SAF Costs by different instruments



Solution II

A **holistic approach** and **networking** with other **players along the value chain** and **politicians** is key to overcome the existing hurdles.



Call to action



Achieving success together

The challenges can only be overcome if business and politics tackle them together.



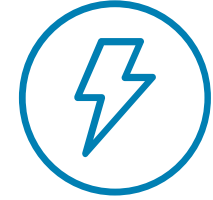
Policy Certainty

Supporting the initiative by ensuring reliable formulation of regulation, e.g. creditability of feedstocks for production of credible fuel



Infrastructure Exchange

Supporting the initiative by considering the needs for power lines, H2 and CO2 pipelines as well as land and labor in Saxony and Saxony-Anhalt



Financing Support

Supporting the initiative with different instruments by paving the way towards low prices for green electricity, attractive loans and security as well as direct investments



Let's tackle it!

NetZero
LEJ

