



Deutsch-Portugiesische
Industrie- und Handelskammer
Câmara de Comércio e Indústria
Luso-Alemã



MITTELSTAND
GLOBAL
ENERGY SOLUTIONS
MADE IN GERMANY

Projekt



Projekt Corporate Group

Energie-Geschäftsreise Kap Verde 2023

At a glance

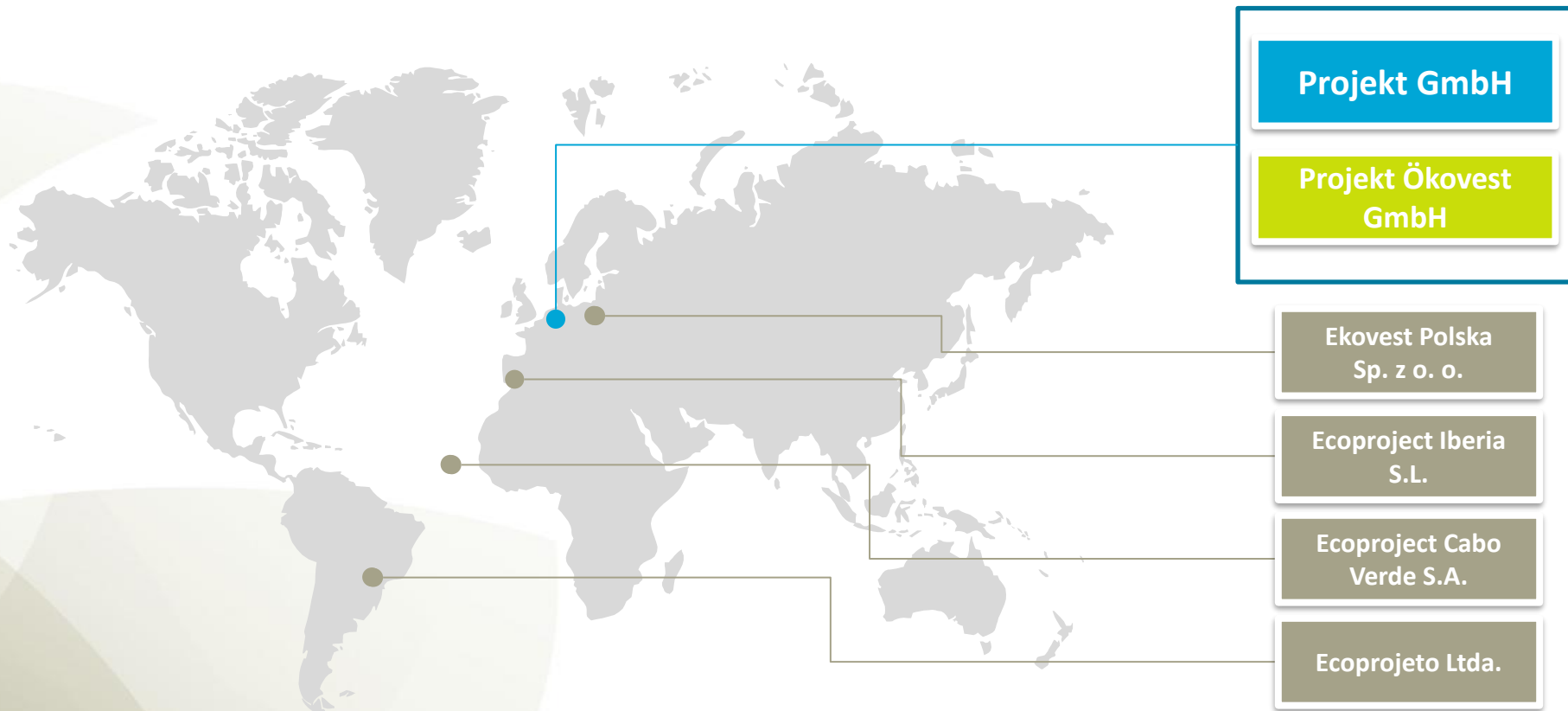
Projekt Corporate Group masters in the fields of **wind and photovoltaic energy** through different business units unified under the same roof. In addition, complete **smart integrated systems** are executed through storage (**batteries and hydrogen**) and energy distribution solutions (**e-chargers**), all controlled and optimized through our own **Energy Management System**.

With more than **30 years of experience**, we are pioneers in the development of renewable energy projects.

Our expertise includes the **Design, Engineering, Procurement, Construction** and **Financing** of renewable energy projects.

Our goal is to promote a **clean** and **sustainable** energy supply.

International reach



Our expertise



Onshore Wind Energy and
Prototype testing



Offshore Wind Energy



Photovoltaic Energy



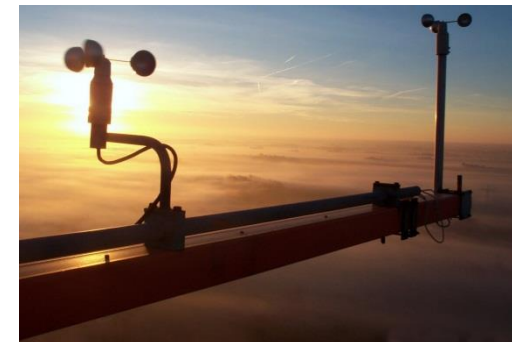
P2X – Hydrogen / Batteries



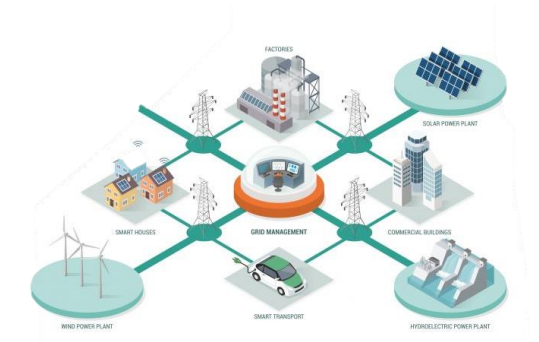
Operation and maintenance



Condition Monitoring



Due Diligence



Sector Coupling / Smart City

Projekt does it all

We have experts in each of the stages to guarantee the success of every project

Feasibility Study
Energy potential research and
economic viability study



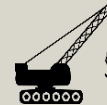
Engineering
Evaluation and design of the best
suited renewable energy plant



Procurement
Specification, selection, contracting and
controlling



Construction
Execution of the designed
renewable energy plant



Commissioning
Set-up and connection of
the installation to the grid



Energy portfolio

PV and wind energy



632

MW installed

> 1.200

MW in development

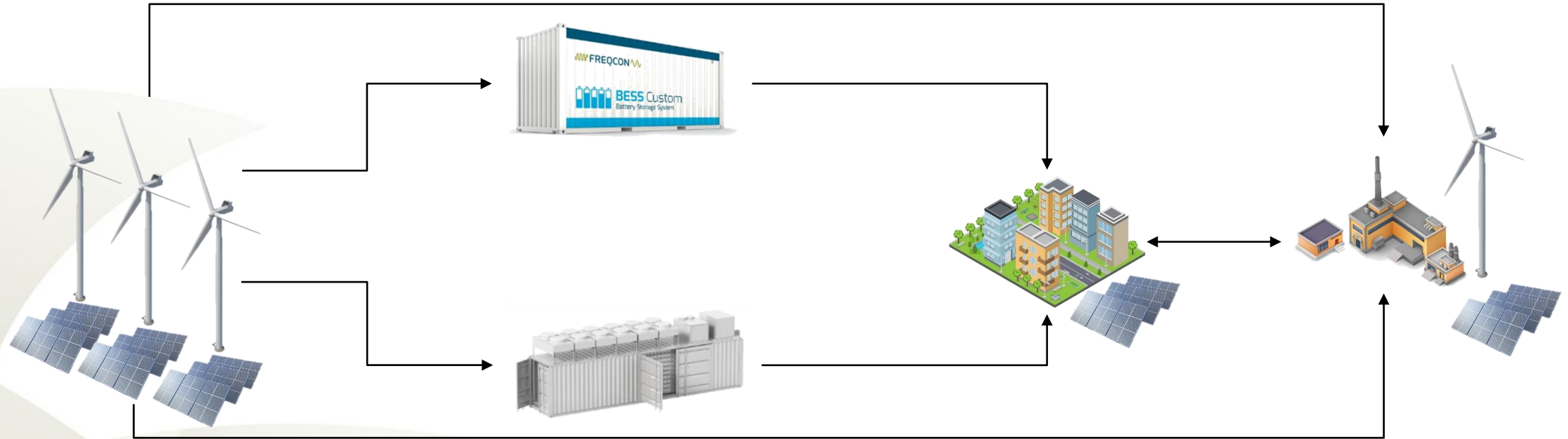
Projekt and GTEK

One stop shop for renewable energy in Cape Verde



Renewable autarky – Cape Verde

The future



Central renewable energy
production

Energy storage

Consumption and decentralized renewable energy
production

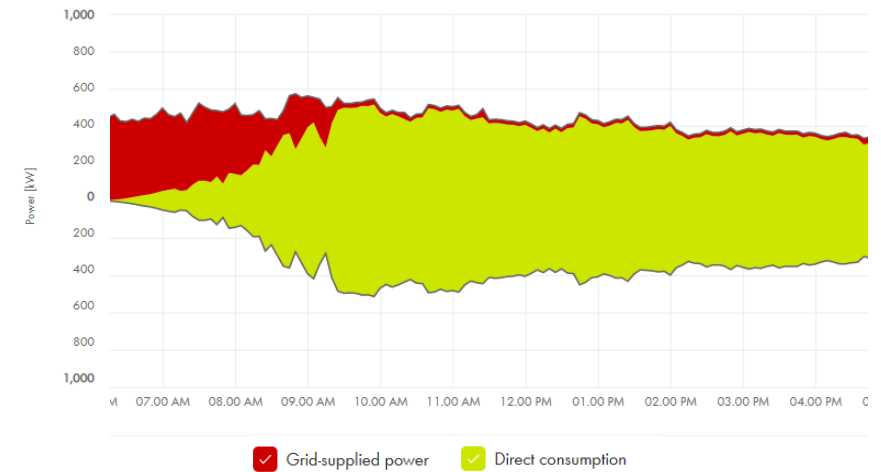
Renewable autarky – Cape Verde

The future but today



Energy production
2022
1.331.000 kWh

< 05/28/2022 >



Renewable autarky – Cape Verde

The impact on the grid and net stability

It is of great importance to **stabilize** the local grid and not impact it negatively

To achieve it, we use the highly advance monitoring from SMA to **dynamically regulate** the active power and reactive power

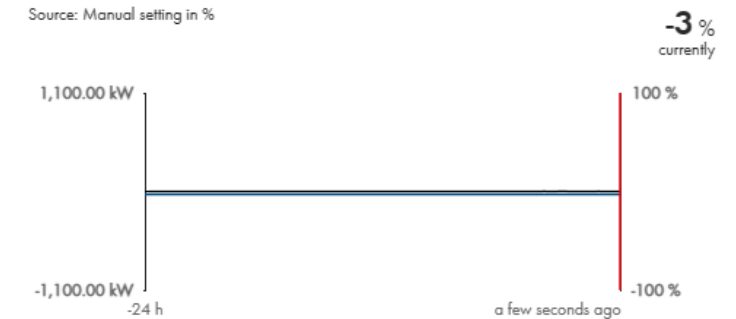
As a further measure, we use the findings from the **monitoring** for a fully automatic reactive power compensation with harmonic filters

The **cooperation** with the grid operator is a must: a work hand-in-hand with **DNICE**, **Electra**, **APP**, etc. is necessary

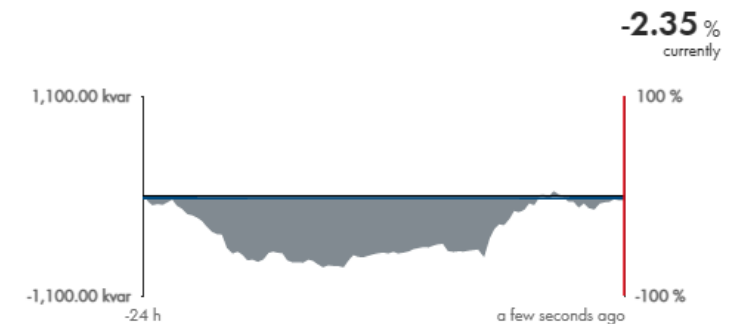
GRID MANAGEMENT SERVICES

Active power limitation

Source: Manual setting in %



Reactive power setpoint



Hydrogen – Cape Verde

Potential to export

Roadmap H2 Cape Verde

Global Price goal

3 €/kg H₂

Average cost of production

range 2020

3,24 - 4,38 €/kg H₂

Average cost of production

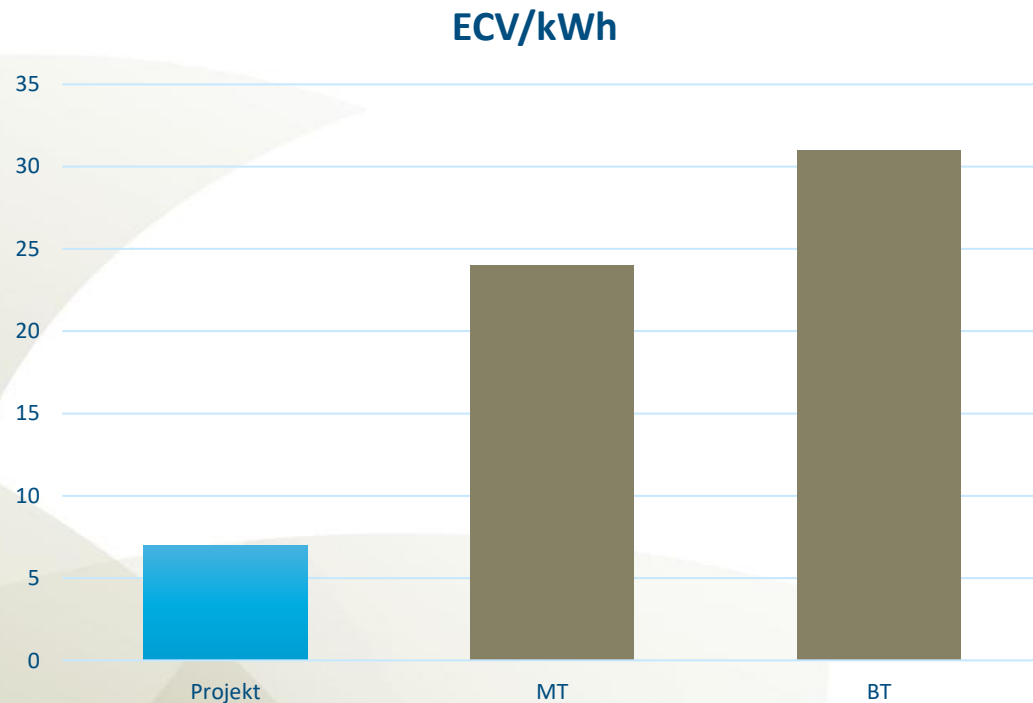
range 2050

1,86 – 2,16 €/kg H₂

- The EU plans to import 10 MtH₂ of green hydrogen per year from countries outside the EU by 2030. This represents about half of the expected demand
- When transporting liquid hydrogen by ship from northern West Africa to Germany, total costs of around 4,60 €/kg H₂ are estimated in 2030
- Imports of renewable hydrogen from northern West Africa, transported via ship, would be the most competitive supply source compared to domestic hydrogen production by 2030, assuming the end user is in Germany

Renewable autarky – Cape Verde

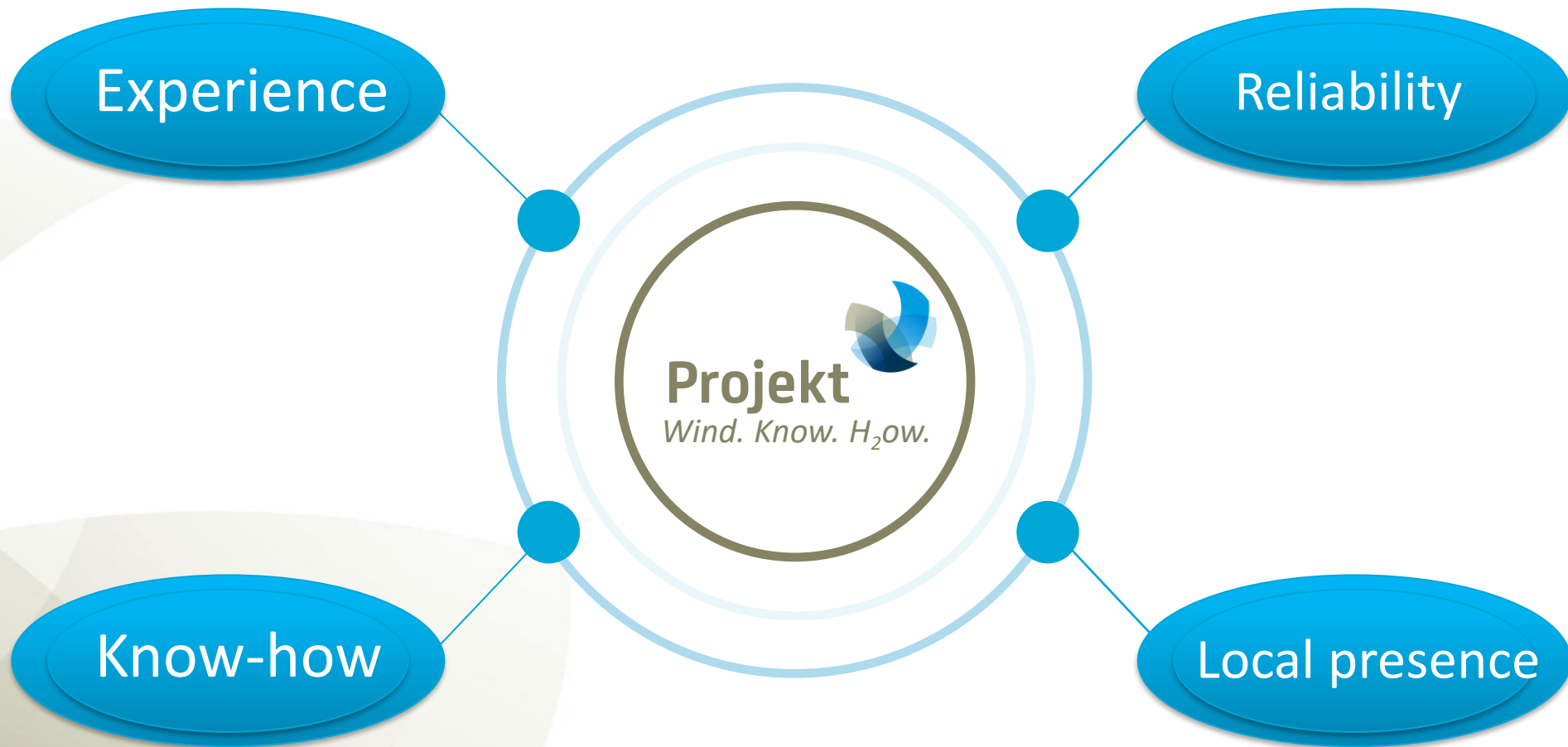
The benefits we offer



- 1 Great energy cost reduction
- 2 Long term price stability
- 3 Investment 0 through our leasing
- 4 Enviromentally friendly energy

Why Projekt?

The advantages of trusting us



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