

An aerial photograph of a wind farm. In the foreground, the white nacelle and parts of three blades of a wind turbine are visible, extending from the bottom left towards the center. The background shows a vast green field with many other wind turbines stretching into the distance under a cloudy sky. The lighting suggests a low sun, possibly at dawn or dusk, creating a soft glow on the horizon.

Greenlab Summit 2021:

The paradigm shift for energy. Energy transformation at scale

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We have a huge problem

- Global energy consumption has skyrocketed since 1950. Wind still accounts for only 1.8% of the total energy consumption
- We are in the middle of a global, environmental crisis and struggle to meet the challenges posed by climate change



What does it take to resolve that?

A transformation to decarbonize energy



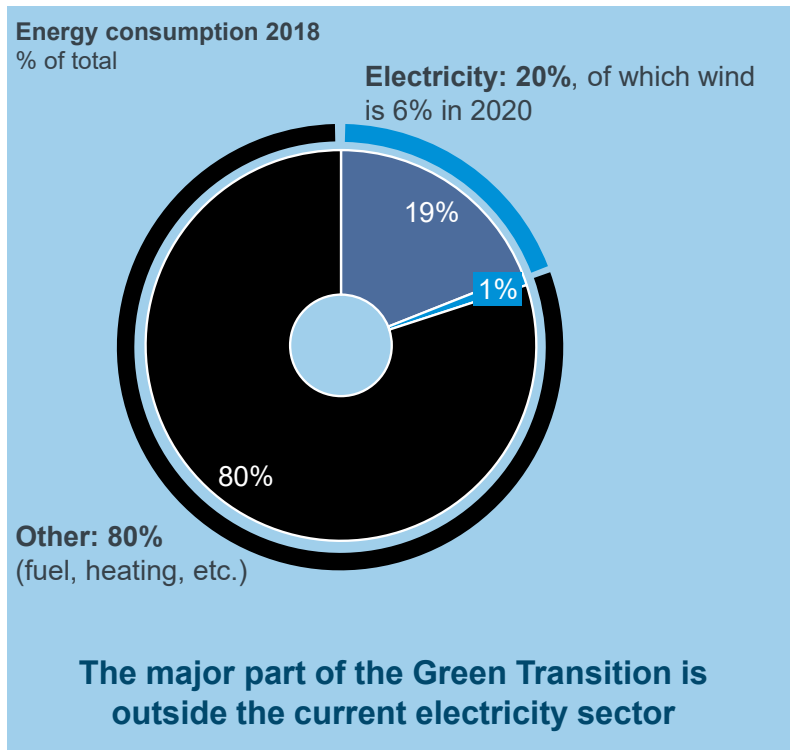
Real government action to ensure the right framework

*A strong focus on what drives cost in the wind industry has resulted in a 60 per cent decrease in LCOE over the last 11 years, making wind, along with solar, the cheapest power source in most places globally**

How do we make the energy transformation needed to decarbonize energy?

We already have a lot of the necessary technologies

WIND IS 6% OF ELECTRICITY AND 1.8% OF ENERGY



Source: IEA Energy Balances, 2018

SO....HOW DO WE DECARBONIZE ENERGY?

REDUCE ENERGY USE

REPLACE FOSSIL ENERGY

❖ Energy efficiency

- 1 **Renewable power**
Replace coal and gas power with wind & solar
- 2 **Electrification**
Replace fossil fuels in industry, heat & transport
- 3 **Indirect electrification**
Replace fossil fuel with green hydrogen & e-fuels

WHAT IS OUR ROLE ("OUR DUTY" ...)

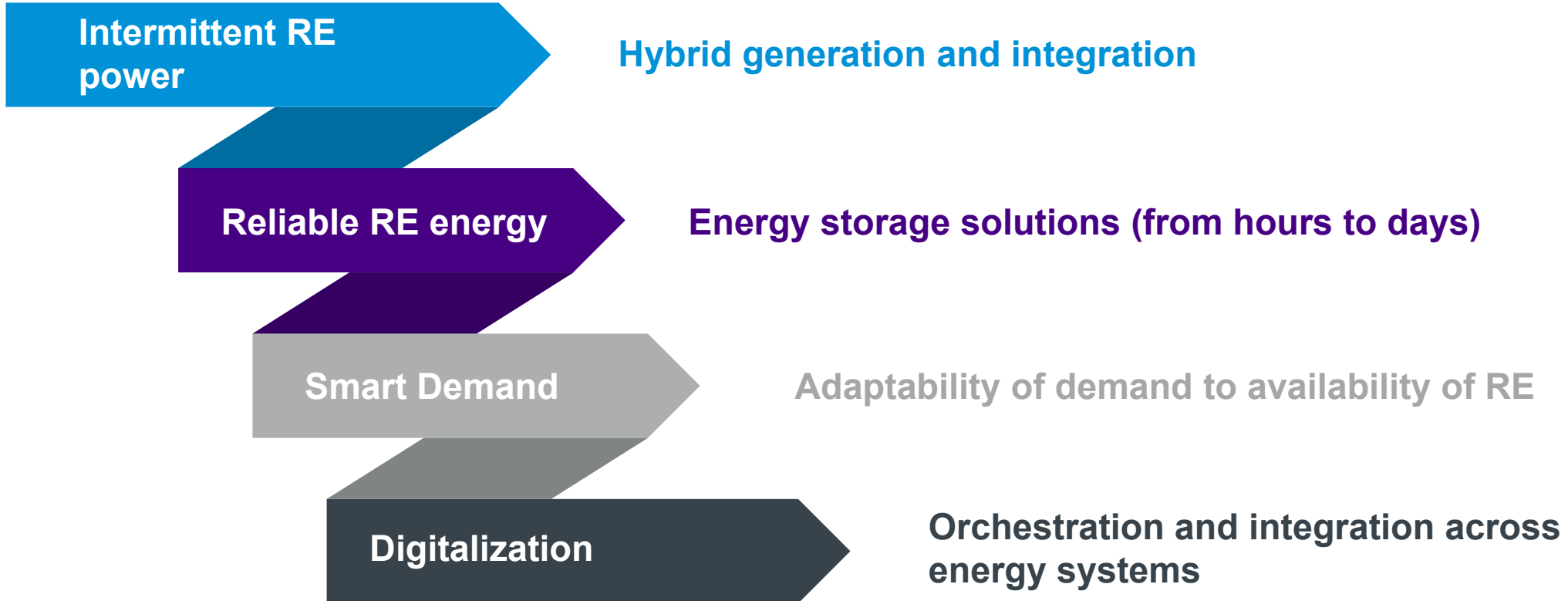
❖ Reduce energy use

RAPID AND MASSIVE DEPLOYMENT

PIONEER NEW SOLUTIONS

Plant & Energy Solutions at scale: Potential game changers

Integrating higher shares of renewable energy in the power systems is essential for decarbonizing the power sector and meet growing demand while continuing the reliability in supply.



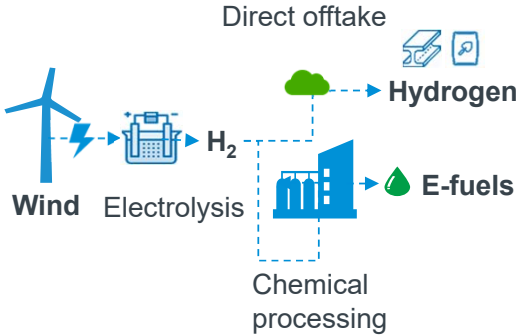
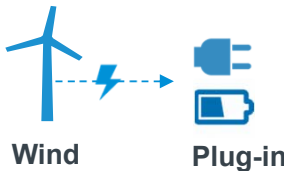
Wind energy can be transformed into CO₂-neutral chemicals and fuels

Large electrification potential

Direct electrification

Indirect electrification

ELECTRIFICATION PATHWAYS



TARGET APPLICATION / SECTORS



Cars



Heating



Industry



Trucks and busses



Marine and aviation

One way to make the most of the available resources

Using clean energy from wind and solar wisely

- GreenLab's **SymbiosisNet™** – a unique smart grid solution that lets businesses share their surplus energy resources with each other.
- This provides a cost-effective set-up that results in the greenest possible end products for consumers.



The transition can only happen with real political action

Needed next steps

FOCUS ON:

- ❖ **Development of scalable technologies and test facilities**
- ❖ **Support from politicians across the globe**





Wind. It means the world to us.™

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