Christian Kissling
MULTIFUNCTIONAL SYSTEM

Energy Source
- Power
- Heat

KRAFTBLOCK STORAGE
- Power to Power
- Net-Zero-Heat
- Waste-Heat-Recycling

Energy Usage
- Power
- Heat, Cold

Paris, Oct 7, 2022
Christian Kissling
**CORE CHARACTERISTICS**

- **Outstanding capacity** up to 1.2 MWh/m³
- **Up to** 1,300°C temperature
- **High Temperature**
- (Dis-)Charing unit **integrated**
- **Storage System**
- **Infrastructure is state-of-the-art**
- **Multifunctional**
- **No rare earth materials** - 85% recycled materials
- **Modular, scalable energy storage** 4 MWh upwards
- **Infinite lifespan** & easily recyclable & eco-friendly

**PATENTED**

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Applications of Kraftblock’s systems

Industries

Utilities & Other

Multifunctional application for decarbonisation throughout all heat driven industries as well as in the utility field.
Excess Heat of a CHP
Capacity: 2MWh-5MWh

Savings:
- 330 tons on CO₂/year
- 1,5GWh natural gas
RECYCLING of 100 GWh/a flare gas

Savings:
- 9,300 tons CO₂/year
- and 42 GWh gas

Internal: Support of Steam production
External: Supply of mobile heat
Recycling of 7,300 MWh waste heat

Savings:
- 1,600 tons CO₂/year

Internal use: Back-up System and production support
**NET-ZERO-HEAT**

**REPLACEMENT of a 25MW Gas Boiler**

**Savings:**
- 45,000 tons CO₂/year
- 225GWh gas

**Fully modular**
Charging: 4-6 hours/day
Discharging: 24/7

Food production, i.e. milk

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GRID SECURITY & STABILISATION

Using existing assets and grid connection, enabled by charging the Kraftblock storage up / over 1000°C with excess power from renewable resources.
REPURPOSING POWER ASSETS

GRID SECURITY & STABILISATION

Using existing assets and grid connection, enabled by charging the Kraftblock storage up over 1000 °C with excess power from renewable resources.

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