

CHRISTOF GERMANN

illwerke vkw AG

Dr. Christof Germann earned his doctorate in law and graduated in applied business studies with a focus on finance and accounting. He served as the head of legal and real estate affairs at Vorarlberger Illwerke Kraftwerke AG. Dr. Germann was a board member of VKW-Ubertragungsnetz AG and is currently CEO of Illwerke vkw AG.



Funded by the European Union

www.etip-hydropower.eu





INNOVATIVE PUMPED STORAGE POWERPLANTS FOR A SAFE ELECTRICITY SUPPLY IN A CARBON FREE ENERGY SYSTEM

Christof Germann

illwerke vkw AG

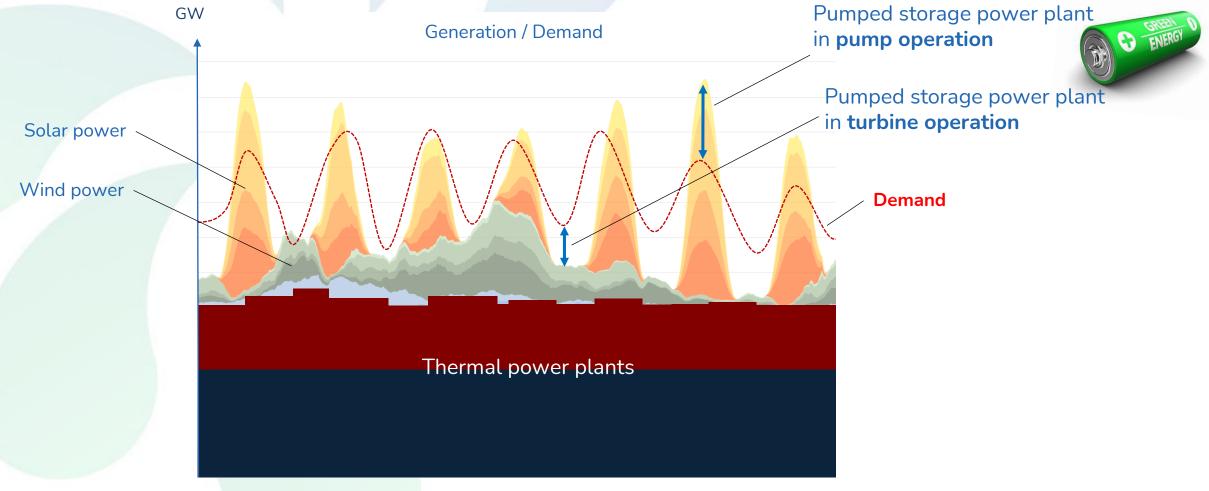


Funded by the European Union

www.etip-hydropower.eu



Mission of Pumped Storage Power Plants

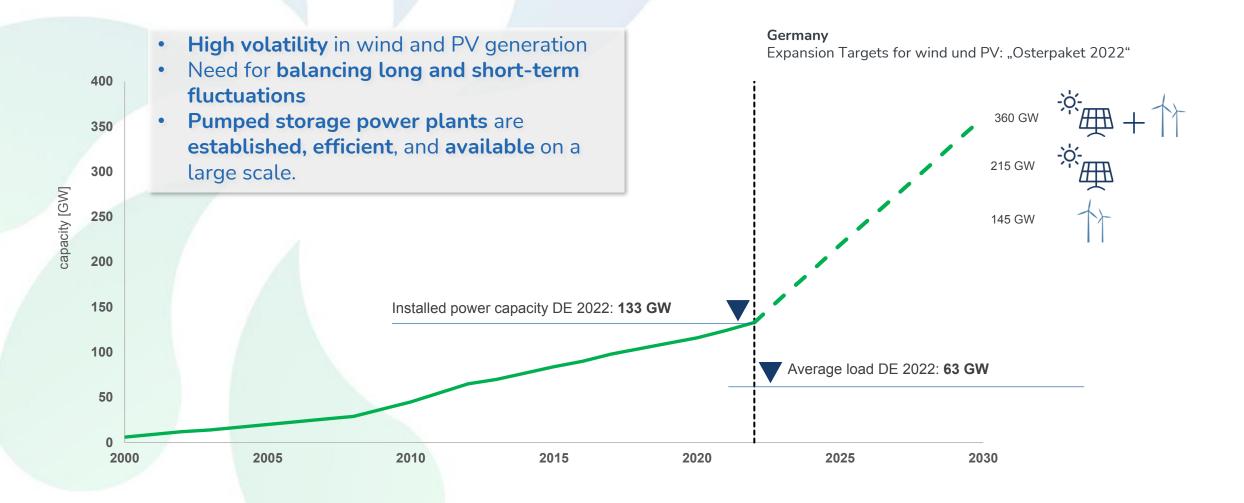


Monday - Sunday

Christof Germann | illwerke vkw AG | Brussels, 16 April 2024



The European Energy System is Changing

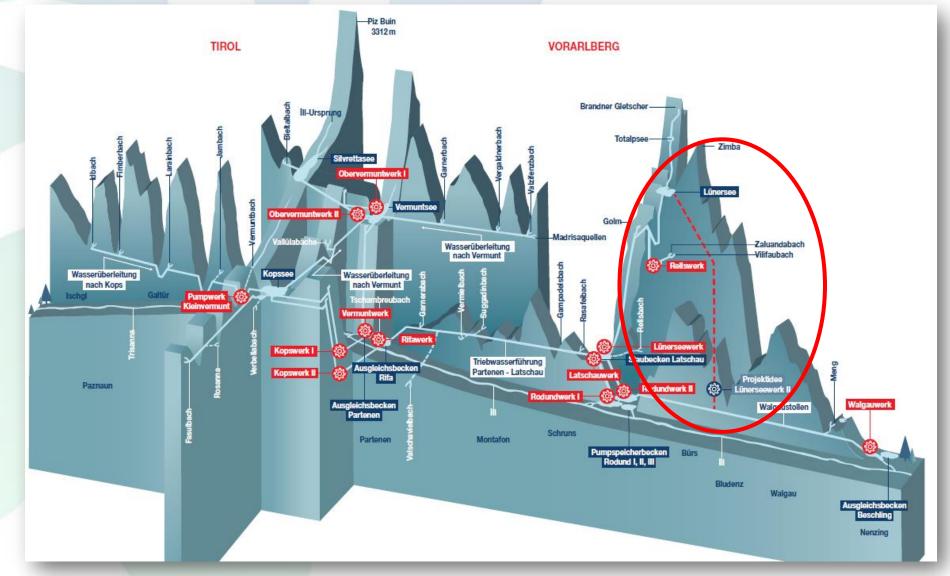




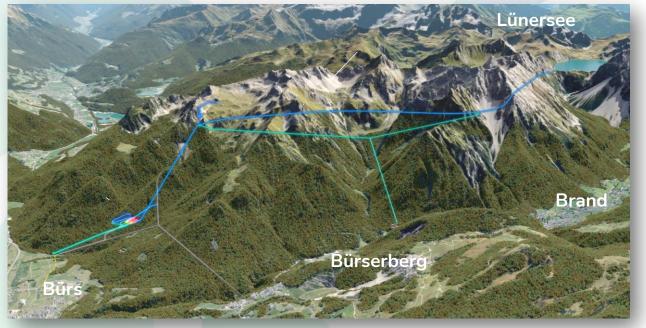
Austria's Largest Pumped Storage Power Plant Stability, Flexibility and Balance for Europe



Illwerke vkw Provides Stability to the European Grid for HYDROPOWER



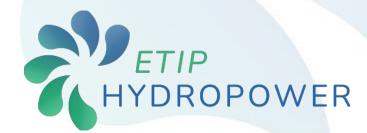
ETIP HYDROPOWER



Lake Lünersee is situated at 2.000 m a.s.l.

Lünerseewerk II

- Part of the German power control area
- ± 1,050 MW CO₂-free flexibility and speed
 230 GWh energy storage
- The green battery that integrates volatile renewable power generation
- Balancing energy to stabilise the European electricity supply network
- Estimated investment costs: € 2 billion



Lünerseewerk II vs Batteries



LÜNERSEE

WERK

2nd use: ~300 € per kWh

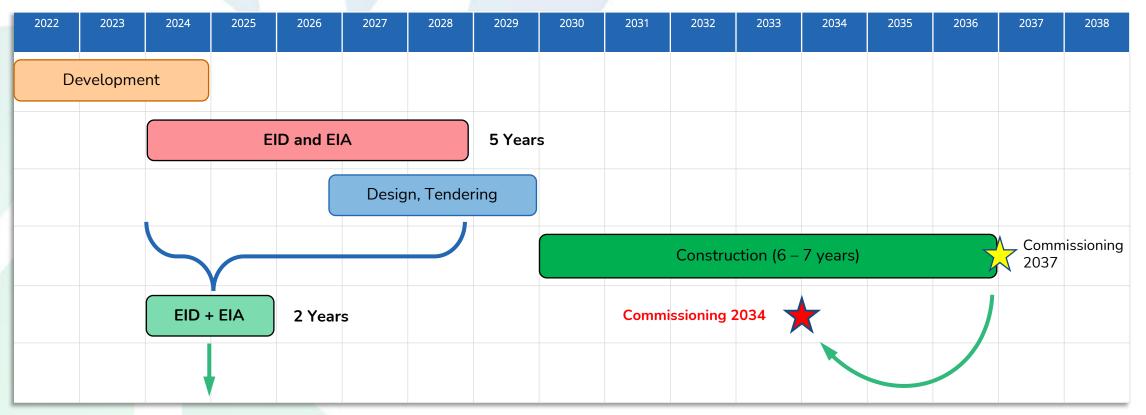
~9€perkWh

1st use: ~ 800 € per kWh

Christof Germann | illwerke vkw AG | Brussels, 16 April 2024



Speeding-Up the Permitting Process



- Shorten the permitting process
- Goal: 1 year Environmental Impact Documentation (EID) and 1 year Environmental Impact Assessment (EIA)
- = 2 years → Commissioning 2034 possible!



Enabling the European Energy Future

LÜNERSEE WERK

Existing infrastructure Environmentally compatible Existing grid connection Financing Public acceptance Accelerated permitting phase

Christof Germann | illwerke vkw AG | Brussels, 16 April 2024



Christof Germann | illwerke vkw AG Brussels, 16 April 2024

<u>Christof Germann,</u> <u>christof.germann@illwerkevkw.at</u>