# Enel Green Power North America

Renewable Energy for a Sustainable Future.





Enel Green Power is a leading developer, owner and operator of renewables in the US and Canada.

15/03/2021

## **Our history**

Enel Green Power has been present in the U.S. for 20 years



**4,000 MW** Over 1,200 MW constructed in 2017, an increased solar portfolio, the largest wind project worldwide and new C&I customers



5,000 MW

Growth continues

with 830 MW of

additional capacity

**6,000+ MW** EGP fully integrates Tradewind Energy, starts construction on first RE + storage project

2020



**261 MW** Enel makes its first international acquisition in North America of 261 MW hydropower from CHI Energy, Inc.



570 MW

Enel Green Power is born and it expanded its portfolio to include wind, biomass and geothermal energy

2008



**800 MW** EGP expands in Canada and grows its portfolio and geographical diversification

2010

**2,000 MW** The company grows significantly its wind

significantly its wind portfolio, enters new states and cerates the first of its kind hybrid power plants

2014

1GW+ annual growth in North America through 2023

2018

2000 —

## Long Duration Energy Storage

Seeking for disruptive technologies beyond lithium



Today, lithium batteries represent the state of art for current needs of energy storage: they're fast, flexible, modular, and getting cheaper and cheaper (cost in 10 years is almost reduced by a 10x factor!)

As non-programmable renewables increase, the need for long duration (>4-6 hours) is becoming a critical topic for the balancing of electric systems



MORNING DEMAND



#### ...Liquid Air..



EVENING DEMAND

Thanks to our scouting activities, feasibility studies, proof on concepts on-field, lead with technological-agnostic approach, we're developing a portfolio of solutions ready to face the future challenges in 100% green electric system!

## **Energy Storage Technologies**

Focus on RES + BESS applications



Storage coupled with Renewable Plants is able to provide a wider range of services, both to plant and to the grid



#### LoDES + Renewables Models

White Paper with Form Energy



Large Scale, Long Duration Energy Storage, and the Future of Renewables Generation

form ene





#### **Released March 2020**

- Evaluated interaction of Longduration storage with wind farm returns
- Unsurprising results: LoDES has the potential to improve the value of renewables by helping mitigate risk factors:
  - Congestion/Basis Risk
  - Resource Intermittency
- Future challenge: not only getting the technology right, but also creating the right contracts and market structure.

## Thank You

