

A large wind turbine is the central focus, its three blades extending across the frame. The ground is covered in a layer of snow, and several other turbines are visible in the distance. The sky is a clear, vibrant blue. In the background, a range of mountains with patches of snow is visible under the bright sky. Two small figures of people are standing on the nacelle of the foreground turbine, providing a sense of scale.

# TransAlta<sup>TM</sup>

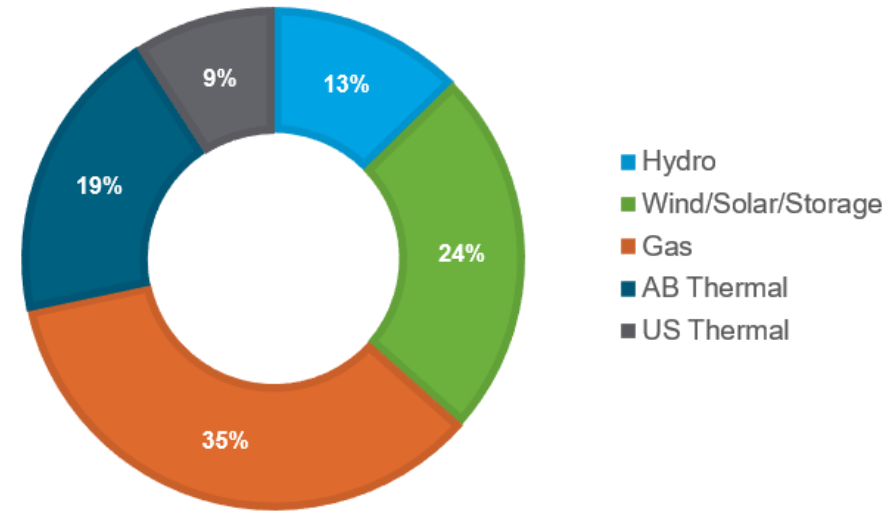
## 27<sup>th</sup> Annual IPPSA Conference

Session 6

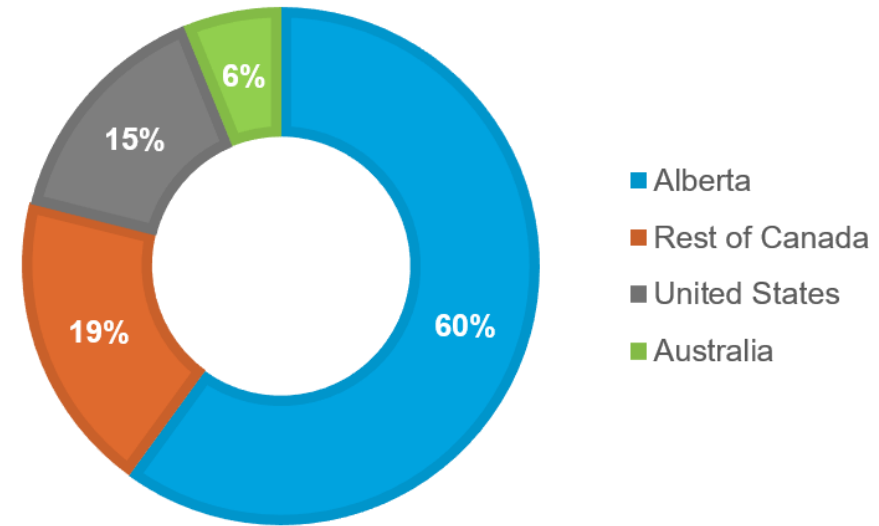
Chelsea Donelon/ November 16, 2021

- 110 years of generation experience
- 70+ facilities
- Expertise in six fuel types: gas, coal, hydro, solar, storage and wind
- Owned capacity of approximately 7,300 MW
- Owned renewable capacity of approximately 5,250 MW
- Sponsor and majority owner of TransAlta Renewables
- Gas and renewable assets comprise approximately 72 per cent of owned generating capacity
- Goal to achieve carbon neutrality by 2050
- Diversified geography with operations in Canada, the United States and Australia

## Owned Generating Capacity by Fuel Type\*



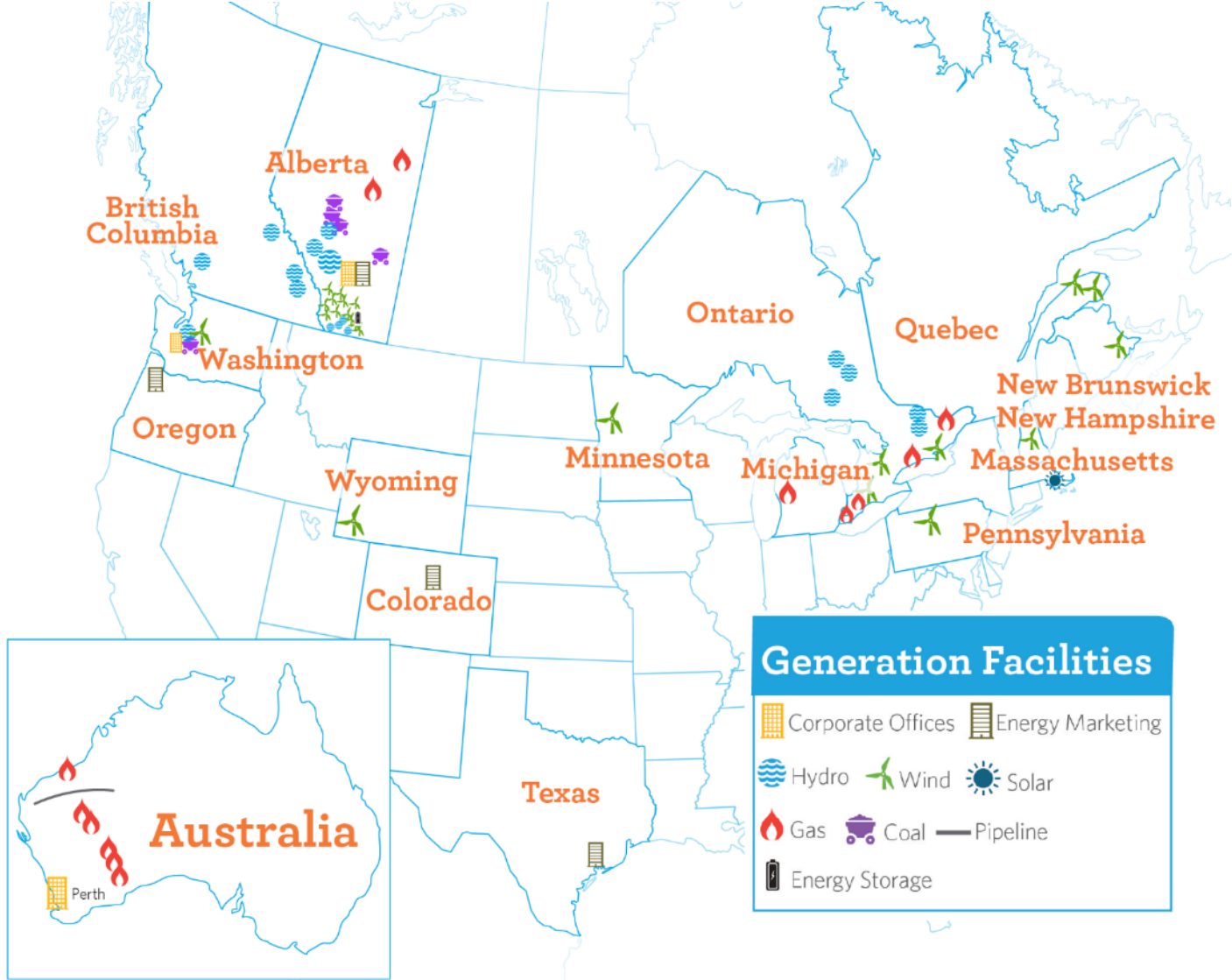
## Owned Capacity by Geography\*



\*As of December 31, 2020



# Map of Operations



# Alberta Evolving Market Dynamics



**Supply and Demand Fundamentals**



**Carbon Policy and Pricing Evolution**



**Corporate PPA Demand**



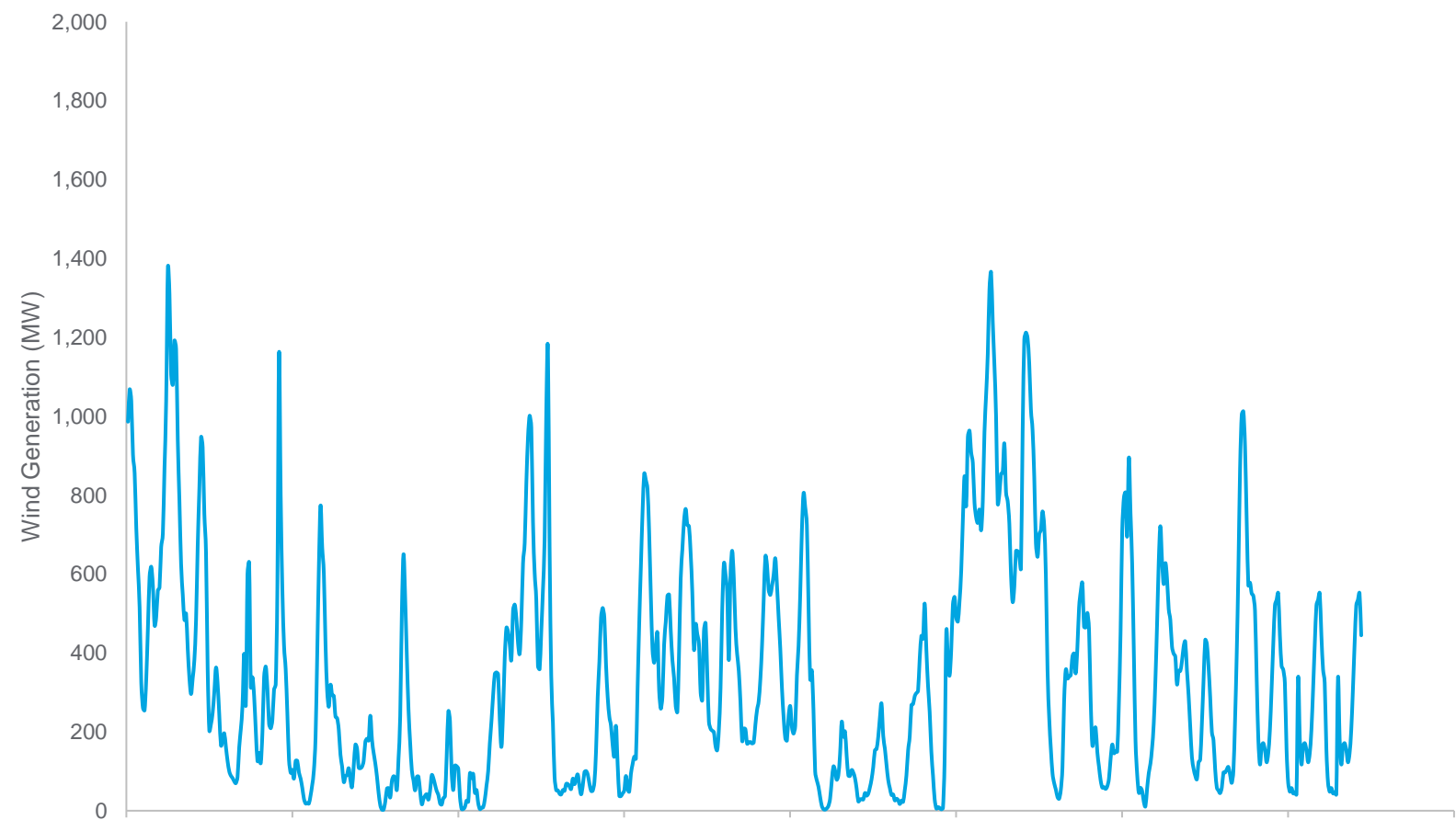
**Declining Cost of Renewables**



**Desire for Lower Carbon Emissions**

# The Challenge: Intermittency

Wind Generation July 2021



## From WindCharger to WaterCharger





Powering Economies and Communities

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[Chelsea\\_Donelon@transalta.com](mailto:Chelsea_Donelon@transalta.com)

1-403-267-2094



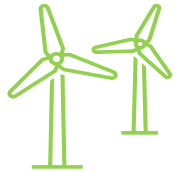




## Appendix



# Pathway to Achieve Carbon Neutrality by 2050



New  
Wind/Solar

**2021+**



Long-duration  
Battery

**2025+**



Large Scale  
Energy Storage

**2030+**



Hydrogen

**2030+**