

McCrary Battery Energy Storage Demonstration

R&D project

2-year evaluation period

Exploring commercial/ industrial-scale energy storage
Interconnected at Gulf Power's McCrary Training and Storm Center



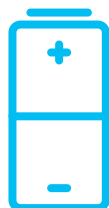
250 KW / 1 MW-hour system = Enough energy to power 400 average American homes x 2 hours



The project holds **10 Tesla Powerpacks**

Each Powerpack weighs **3,970 pounds** (almost 2 tons)

the equivalent weight of **11,636 D-cell batteries**



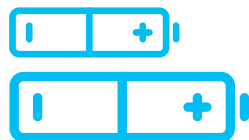
This demonstration uses a total of **144,000 cells** – enough to stretch **5.8 miles** if laid end to end!

Uses the **same battery chemistry** as EVs + many consumer electronics



Each Powerpack holds **14,400 lithium-ion battery cells**

Each cell is slightly **larger + longer than a AA battery**



Why battery storage?

- » Save on energy bills for customers
- » Integrate renewables
- » Manage peak demand
- » Increase resiliency
- » Provide emergency back-up power
- » Improve grid reliability
- » Shift energy use during peak times

The **cell is the building block** for the storage system