



# **Crowned Ridge Energy Storage I, LLC**

## **NextEra Energy Resources**

**South Dakota Public Utilities Commission: Public Input Meeting**

**Clay Cameron - Executive Director**

**July 1st, 2026**

# Agenda

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**Project Overview**

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**NextEra Energy Resources Introduction**

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**Battery Energy Storage Benefits**

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**Battery Energy Storage System Overview**

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**Safety & Standards**

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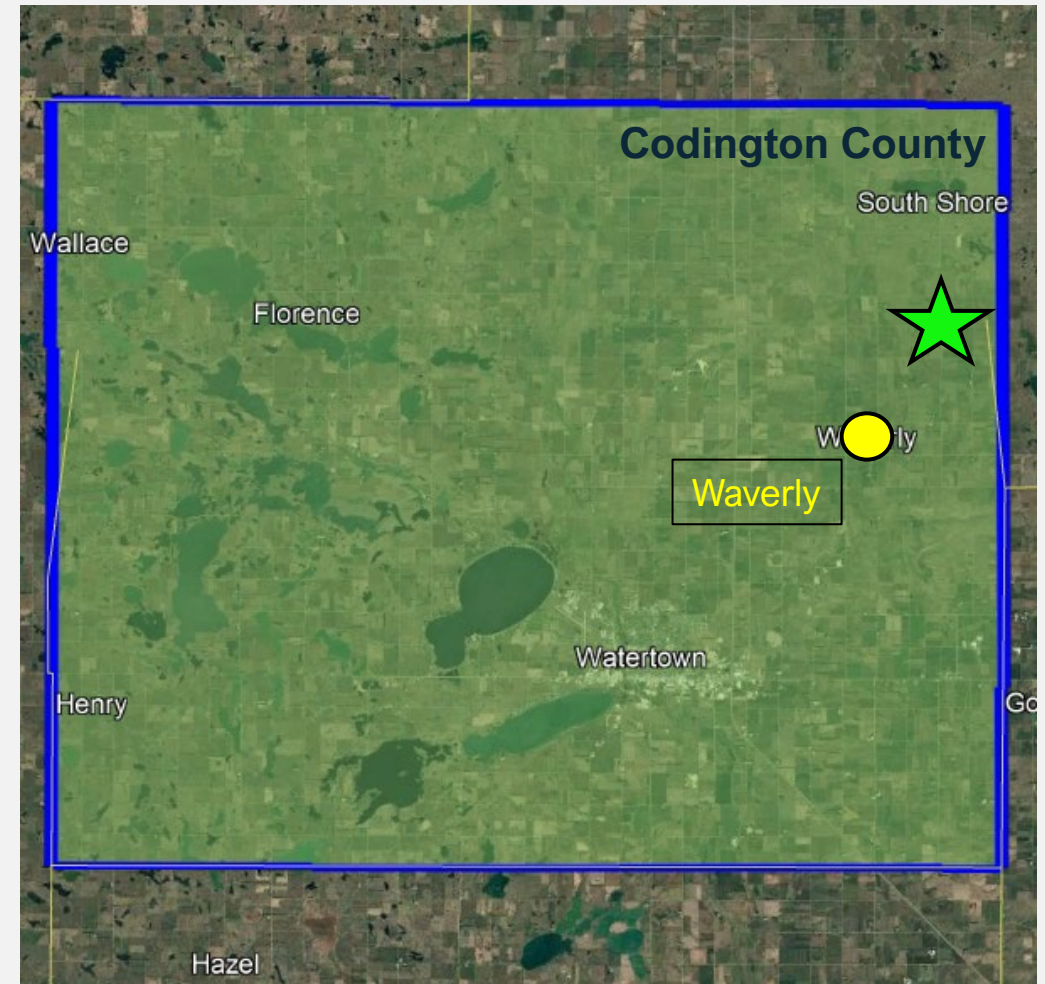
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**Community Commitment**

# Crowned Ridge Energy Storage I Project Overview

- Located in Codrington County
- Approximately 52.7-acre project area
- BESS expected to occupy 7.8 acres within the project area
- 120-megawatt, 4-hour battery energy storage project (480 MWh)
- Commercial operation targeted for May 2028
- 35-year project life

## Crowned Ridge Energy Storage I: Project Timeline



# NextEra Energy Resources, LLC

One of America's largest infrastructure developers, NextEra Energy Resources subsidiaries build all forms of energy across renewables, battery energy storage, natural gas and nuclear

## NextEra Energy Resources subsidiaries:



**American-owned and operated company** with more than **35 years** of energy infrastructure experience



**Proven track record** of being a good neighbor through **\$3.1 MM** invested local community programs (2025) and **\$260 MM+** in property taxes and fees (2025).



Committed to enhancing **energy reliability, sustainability, and safety** for communities nationwide



**Trusted energy provider** working with local utilities in **41 states across 400+ projects**



**22 GW**  
Wind

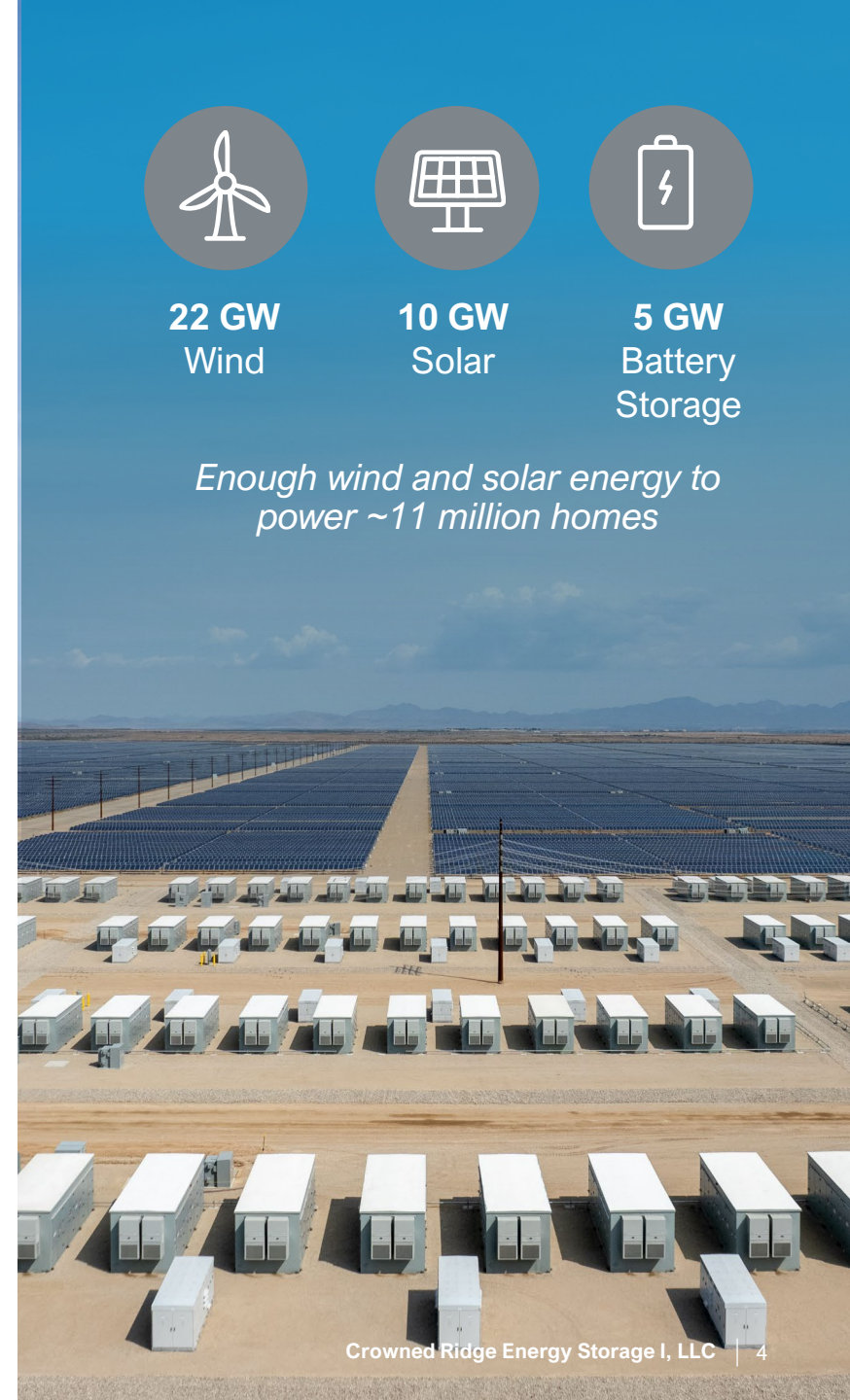


**10 GW**  
Solar



**5 GW**  
Battery  
Storage

*Enough wind and solar energy to power ~11 million homes*



# NextEra Energy Resources Subsidiaries in South Dakota



Investing in South Dakota since 2003



Own and operate 4 wind energy centers



Two battery energy storage projects in development



~\$840 billion  
total investment



~\$4.9 million  
annual payroll



~\$2.1 million  
annual land  
payments



~\$1.8 million  
in property  
taxes, 2024



# Why battery energy storage systems (BESS) matter

Battery energy storage systems ensure your community has reliable power when you need it most



- **Keeps your power reliable:** Battery storage balances and improves grid operations
- **Strengthens energy independence:** Local energy supply reduces reliance on distant power sources
- **Supports American competitiveness:** Battery storage provides the reliable, clean energy US manufacturing needs to compete
- **Reduces costly upgrades:** By improving grid efficiency, delays power plant and transmission upgrades
- **Makes renewable energy work around the clock:** Stores wind and solar energy when it's plentiful and delivers it when your community needs it most

# Why communities choose NextEra Energy Resources

Trusted by communities nationwide, NextEra Energy Resources benefits from over a decade of safe BESS operations

Collectively, NextEra Energy Resources subsidiaries are the largest developer, owner and operator of Battery Energy Storage facilities in the U.S.<sup>1</sup>



**Industry expertise:** Over 60 battery energy storage systems safely operating across the U.S. and Canada



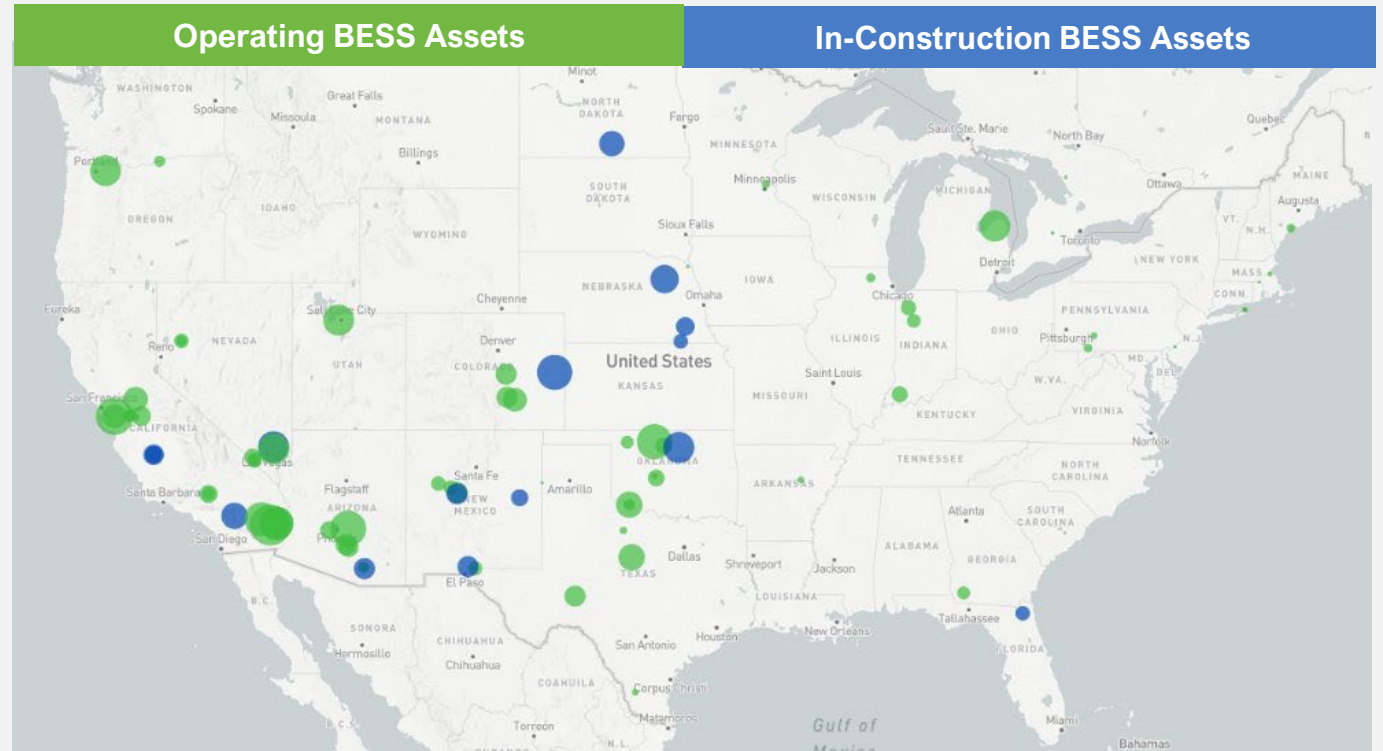
**Proven safety record:** Decade+ of safe operations with rigorous safety protocols and emergency response planning



**Community benefits:** Our projects increase grid reliability, create jobs, boost local tax revenue and contribute to affordable energy



**Trusted relationships:** Built through decades of serving utility, commercial and industrial customers

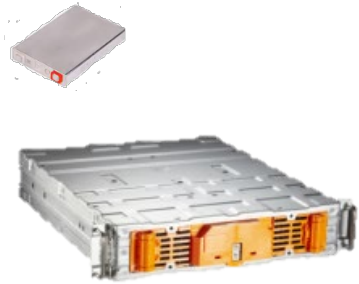


1. Wood Mackenzie BESS market study (2026) and NextEra Energy investor materials supplemental resources – Generation Portfolio 03/31/2026

# Inside a battery energy storage system

Modular and outdoor battery energy storage cabinet simplifies site design and enhances safety

## Cell & Module



- Battery cells are the basic building blocks
- Multiple cells are grouped into modules

## Rack



- Multiple modules are stacked within racks
- Includes localized battery management system and protection systems

## Cabinets



- Racks are housed in cabinets; outdoor design allows safe maintenance without entering cabinets
- Advanced thermal management system maintains optimal temperatures
- Multiple safety systems including fire detection and automatic shutdown
- Energy Management System manages charging, discharging and system safety

# The flow of energy: from generation to grid integration

Understanding the process of electricity conversion within our battery energy storage systems is simple

## Charging the Batteries



- Energy produced by solar, wind, and gas-fired power generation facilities is safely housed in battery storage cabinets



## Converting DC ↔ AC



- Smart inverters efficiently convert DC energy to AC energy, which is ready to be used by the grid



## Voltage increase with transformers



- Transformers step up the voltage of AC energy at substations, to match transmission requirements



## Grid interconnection

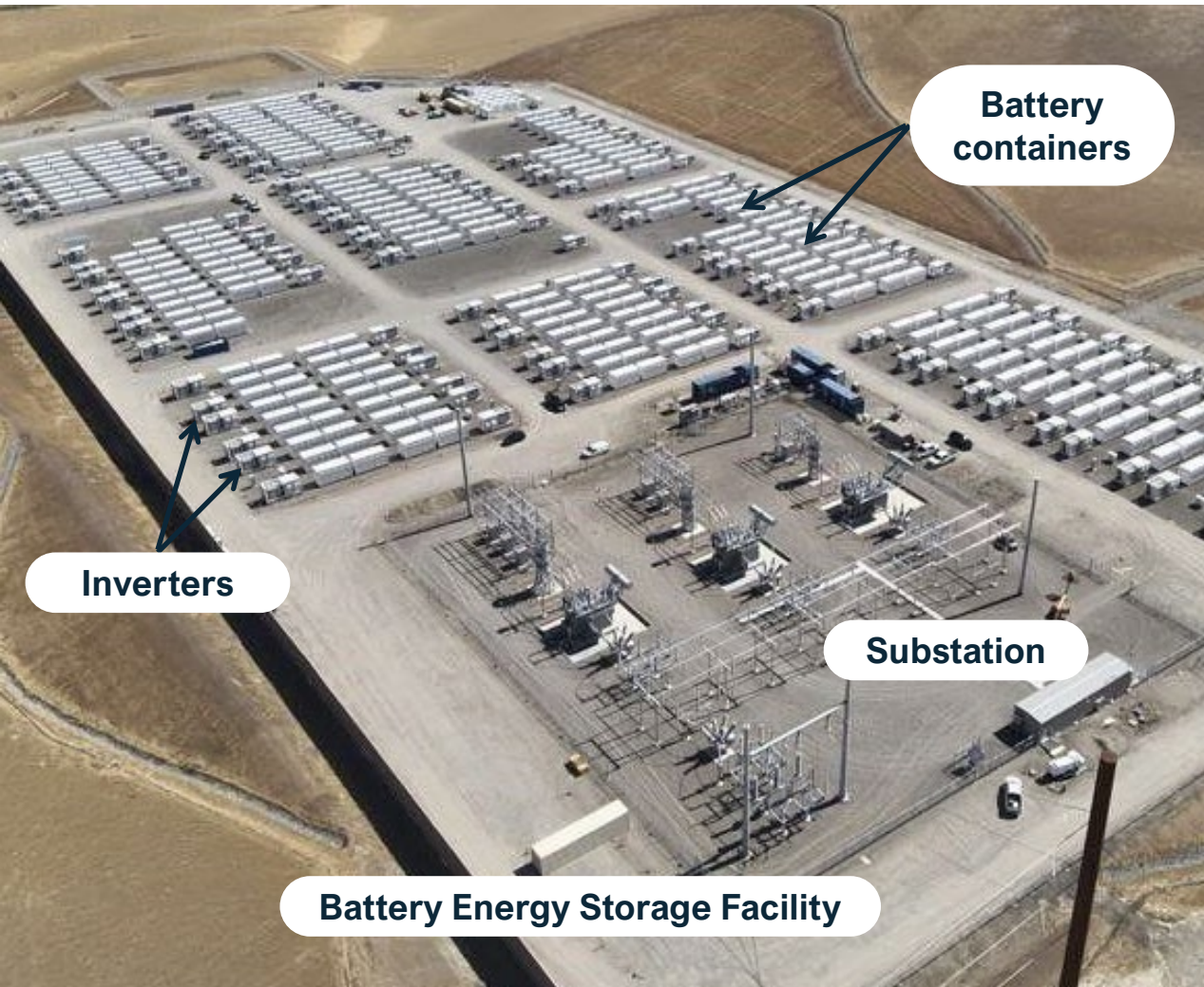


- Converted AC energy is delivered into the grid, providing reliable electricity when it's most needed

Process happens automatically and safely, ensuring the grid receives reliable power without disruption

# Battery energy storage facility – typical site layout

Battery energy storage systems are flexible and scalable, tailored to meet site needs



- **Minimal community impact**

- Small footprint - only ~10 acres for 100 MW (4hr), minimizing land disturbance
- A single cabinet can provide energy for over 700 homes for 4 hours daily<sup>(1)</sup>
- Designed to adhere to specific site requirements
- NextEra Energy Resources complies with local and county noise ordinances, and we carefully design the battery site to minimize sound impacts.

- **Strategically located near existing infrastructure to reduce disruption**

- Close to substation
- May be standalone or co-located with energy projects

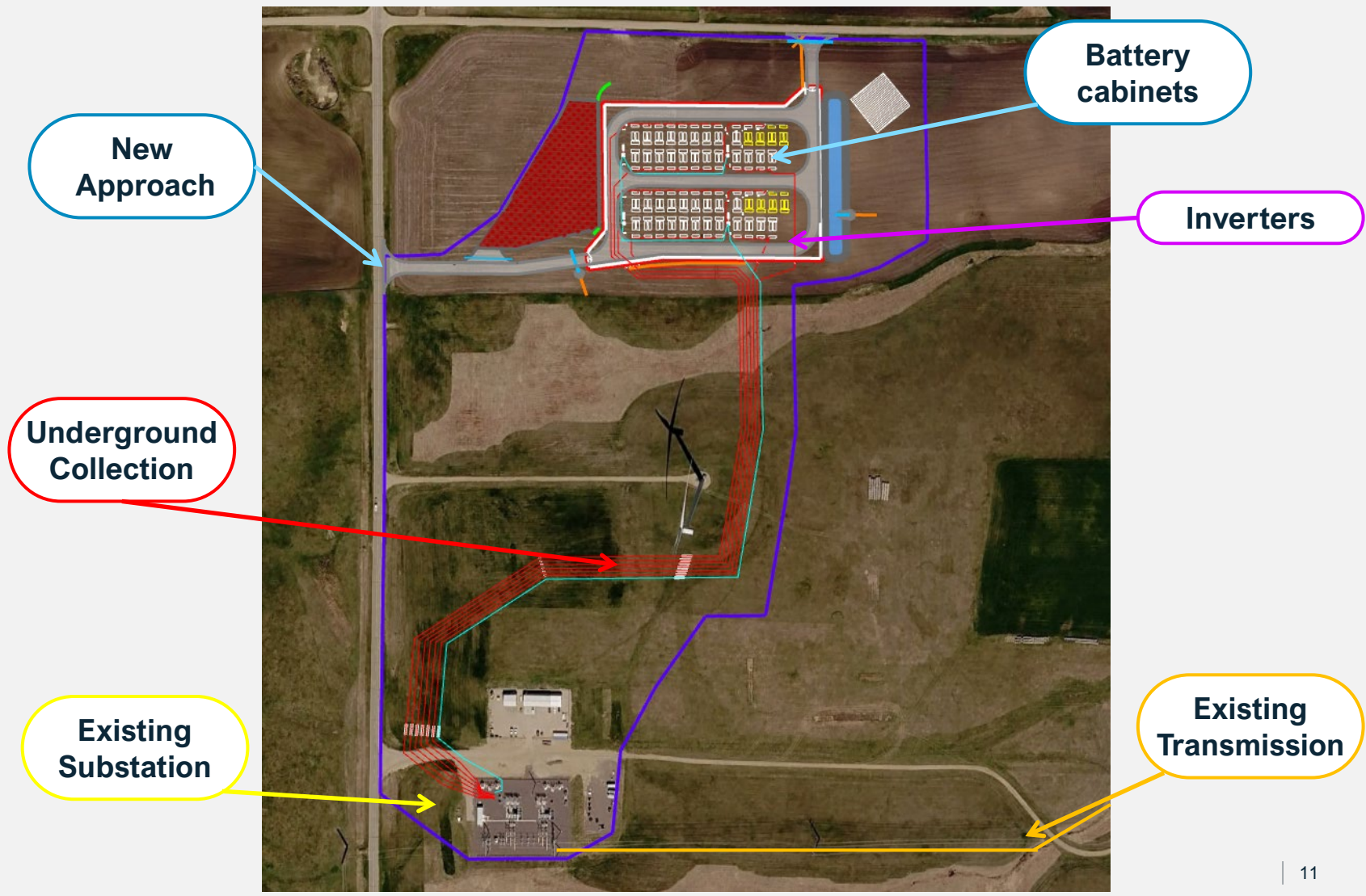
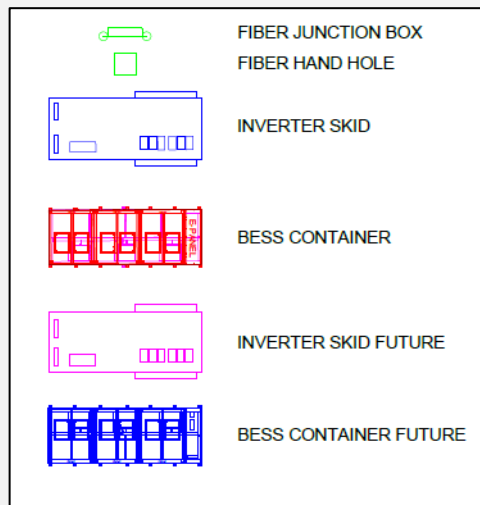
- **Safety features**

- Entire site fenced with security gates
- Access roads for operations, maintenance and safety

1) Based on average energy use by U.S. household from the EIA in 2021.

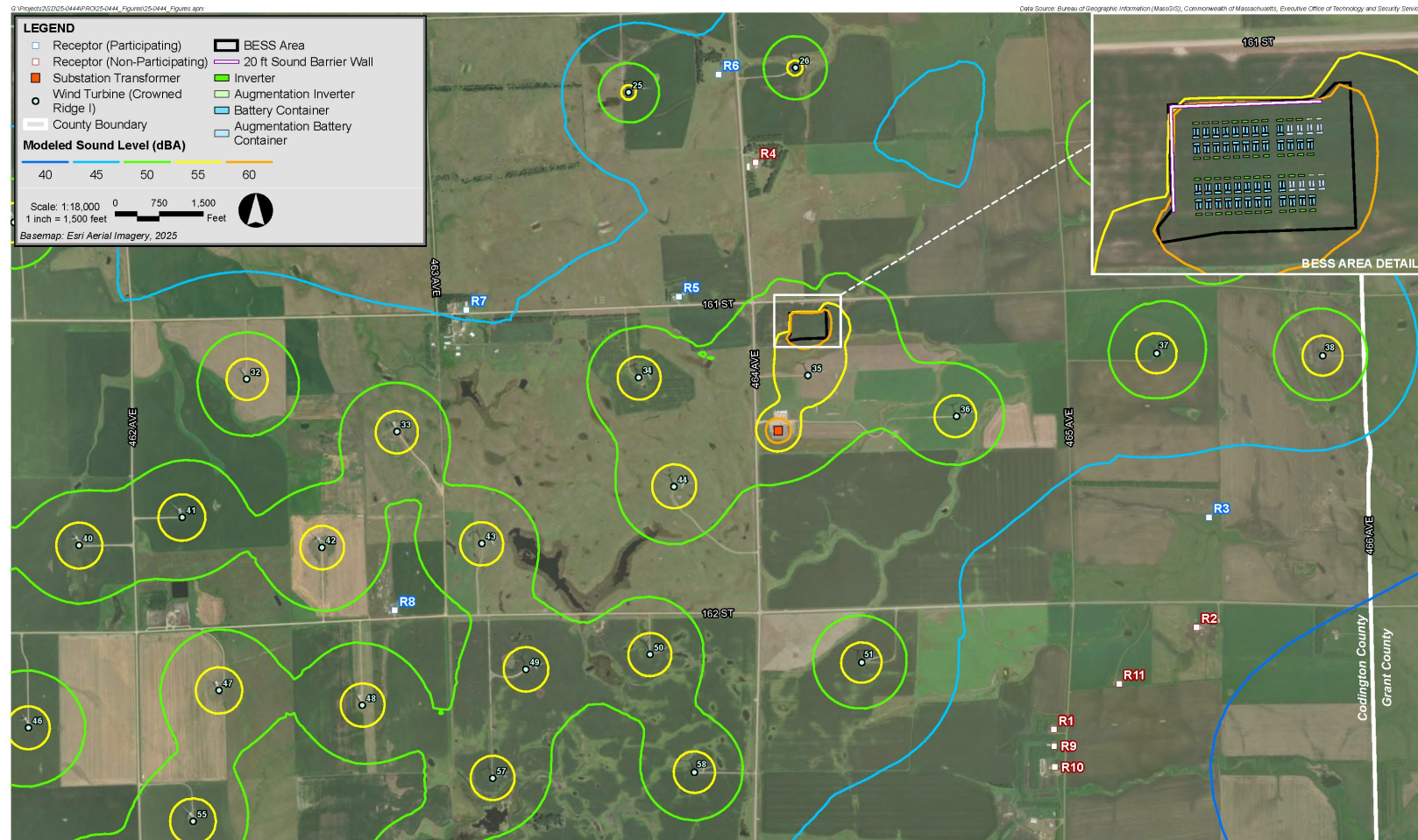
# Crowned Ridge Energy Storage I: Preliminary Site Layout

- Project anticipates 126 batteries during initial build
- 150 batteries by the end of the project's life
- Utilizes existing collection substation and transmission via underground connection



# Crowned Ridge Energy Storage I: Sound Levels

Project is compliant with sound regulations requested by Codington County - 50dBA sound level limit from participating occupied residences and 45dBA sound level limit for non-participating occupied residences



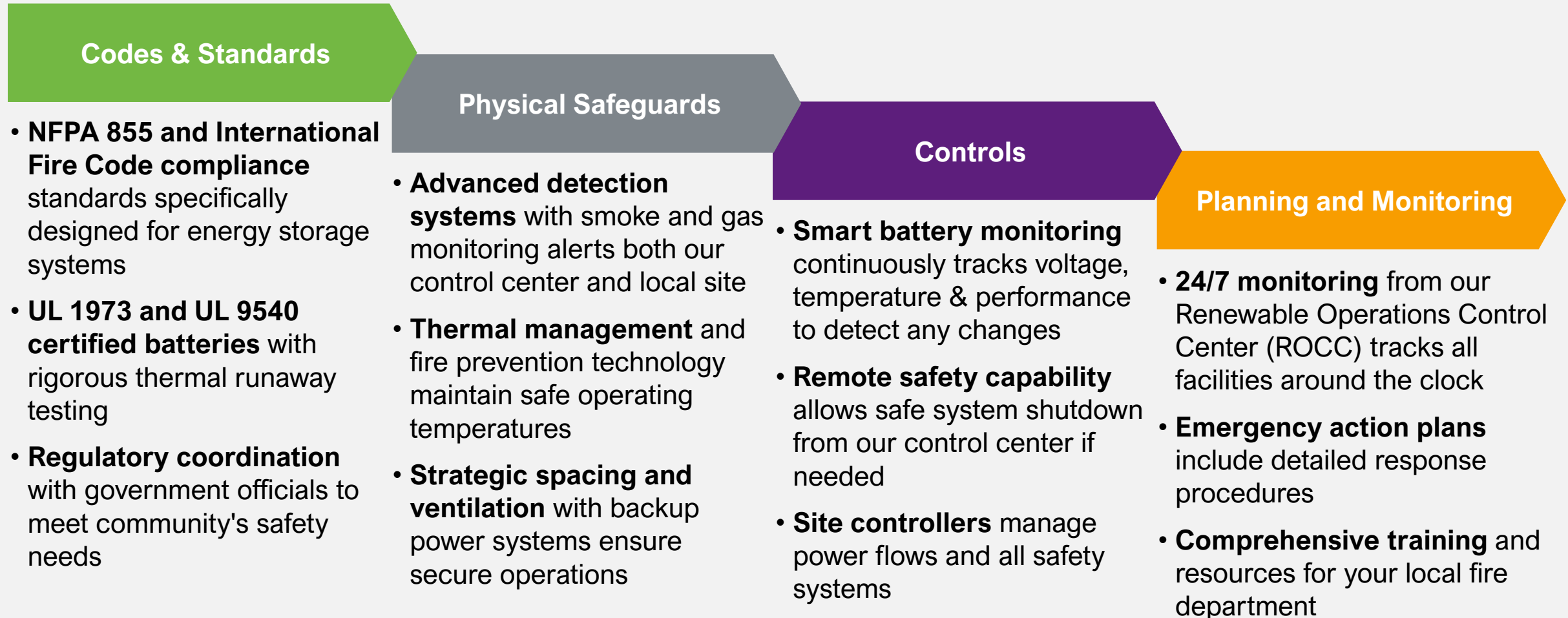
Crowned Ridge I BESS Codington County, South Dakota



Figure 3  
Sound Level Modeling Results

# Battery energy storage systems – a layered approach to safety

Our comprehensive safety systems protect your community through multiple layers of protection



# Key takeaways: safe and reliable energy solutions for your community

NextEra Energy Resources subsidiaries are committed to shaping America's energy future, providing reliable, low-cost energy solutions

With our industry leadership and depth of experience we ensure:

- ✓ **Regional grid reliability:** Our systems stabilize the power grid and support greater renewable penetration
- ✓ **Community enhancement:** We contribute to local economies by increasing tax revenue, supporting local programs, improving grid reliability and creating jobs
- ✓ **Safety excellence:** Over a decade of safe operations with 24/7 monitoring and comprehensive emergency response
- ✓ **Collaborative relationships:** As America's battery storage leader, we're committed to being a good neighbor for years to come



Thank you

