

# Morro Bay Energy Storage Facility Update



May 2022

# Morro Bay Energy Storage Facility



# A Leader in the Energy Transition



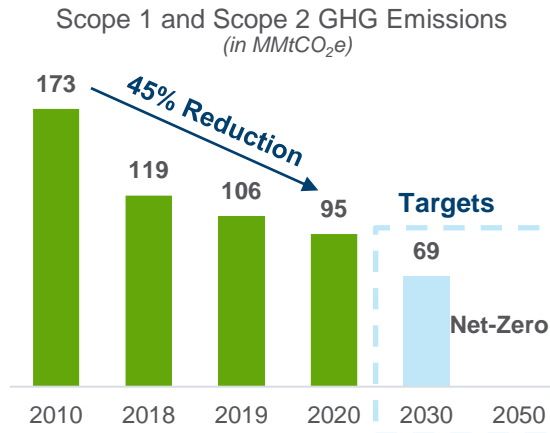
Vistra is targeting net-zero by 2050 and is advancing its transformation via planned retirements of coal plants and investments in solar and batteries

## EMISSIONS REDUCTIONS

**60% by 2030**

As compared to 2010 baseline

**Net-Zero 2050**



## AWARDS



2021 Excellence in Surface Coal Mining Reclamation Award



Texan by Nature 20 (TxN 20) Honoree

## PORTFOLIO TRANSFORMATION

**~2,900 MW<sup>1</sup>**

of zero-carbon generation currently online<sup>1</sup>

**~7,300 MW<sup>1</sup>**

of zero-carbon generation expected by 2026

**~8,000 MW**

of fossil-fueled power plants expected to retire by 2027



## REPORTING

2020 [Sustainability Report](#) (GRI & SASB)

2020 [Climate Report](#) (TCFD)

2021 [CDP](#) questionnaire

Green Finance [Framework](#)

<sup>1</sup> Includes Comanche Peak.

## BRANDS IN CALIFORNIA



## LOCATIONS

### Oakland

110 MW oil (retirement soon)  
43.25 MW battery with  
target COD Summer 2024 (phase 1)  
36.75 MW battery with  
target COD Summer 2025 (phase 2)

### Moss Landing

1,020 MW natural gas  
300 MW battery  
100 MW battery  
350 MW battery (in construction)  
750 MW battery (proposed)

### Morro Bay

600 MW battery (proposed)



# Morro Bay Battery Project Status



## Project Basics

- 600 MW / 2,400 MWh of Lithium-ion batteries
- Project on 22 acres of tank farm site next to generation building, stacks
- Morro Bay site remains ideal for BESS: Central Coast location, existing infrastructure, DTSC LUC on tank farm, PG&E substation tie to CAISO grid

## Market Conditions

- Inflation, raw materials, supply chain, increasing BESS costs
- Engineering, procurement, construction costs higher
- Vistra seeing up to 40% increase in capital cost/kWh for BESS
- Attractive locations in CA, TX seeking Vistra BESS projects
- Vistra opportunistically evaluating renewable investment dollars allocation by potential projects

## Development Progress

- Vistra still excited about the project
- All requested technical work submitted
- But time is critical
- **Urgent: Issuance of Notice of Preparation (NOP) under CEQA this month**
- On track according to City staff
- Vistra respectfully asks City Council and Staff support

## HOW IT WORKS



**Renewable Solar and Wind Energy**



### ENERGY IN

Excess green energy comes in and charges utility-scale batteries



**Morro Bay Energy Storage Facility**

Batteries store excess renewable energy until it is needed



### ENERGY OUT

Batteries release the stored renewable energy when demand is highest, increasing grid reliability and maximizing the use of zero-carbon energy

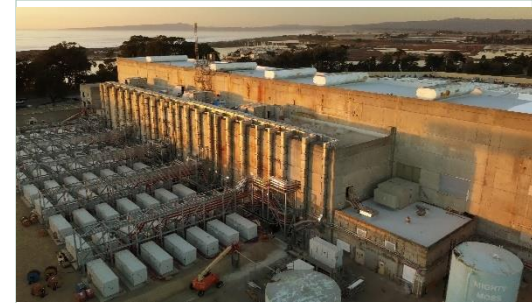


**About 450,000 Homes Powered**

- Vistra expects to have a substantial portion of its 400-megawatt Moss Landing Energy Storage Facility back online for summer, with the entire facility operational during the summer.
- With corrective actions determined and implementation nearing completion, including replacement of connectors in the water-based heat suppression system and testing, the company anticipates it will have 200 MW available in early June, with another 150 MW coming online incrementally throughout the month.
- The remaining 50 MW are anticipated to become operational in August as we receive replacement batteries and complete installation.
- Vistra continues to work with regulators and state and local officials as it completes the restoration work comprehensively, properly, and safely.

# Moss Landing Investigation Findings

- At time of first activation of safety systems, all battery modules were operating within established temperature limits
- Smoke detectors alarmed, causing release of water to the battery heat suppression system
- Hoses on heat suppression system disconnected when quick connect couplings came undone



- Complete repairs and commissioning
- Quick connect fittings will be replaced with threaded connections
- The complete heat suppression system will be pressure tested
- System will be changed to dual interlock – requires both smoke and activation of battery module sprinkler to release water to heat suppression system
- Should eliminate activation of system by smoke that is not associated with battery overheating
- Smoke detectors will be installed in all air handling units to detect any smoke generated in air handling units or outdoors



## Questions?

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