



Port of  
**LONG BEACH**  
THE PORT OF CHOICE

# **Resilience for a Critical Facility**

Christine Houston

**Manager of Sustainable Practices**

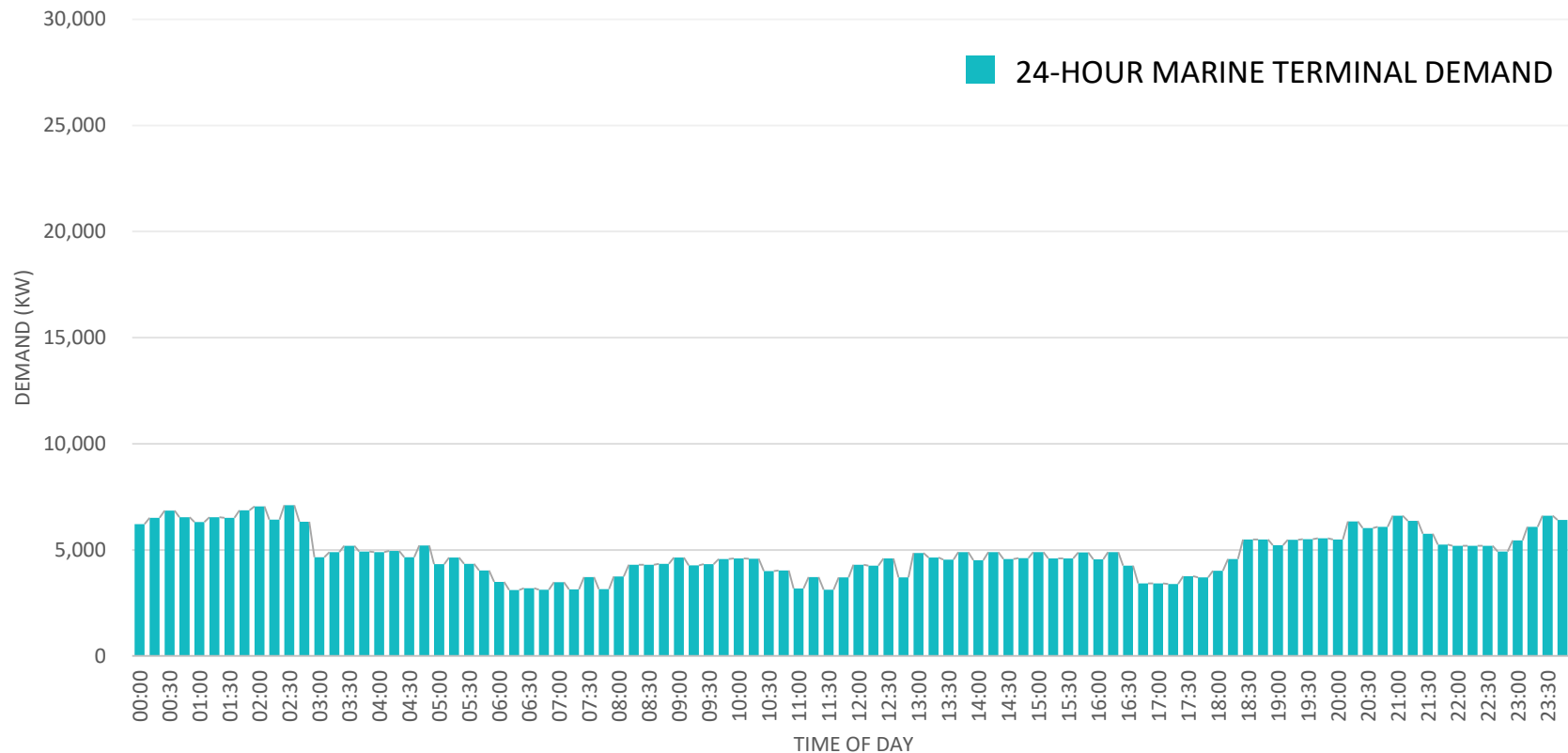
**February 25, 2020**

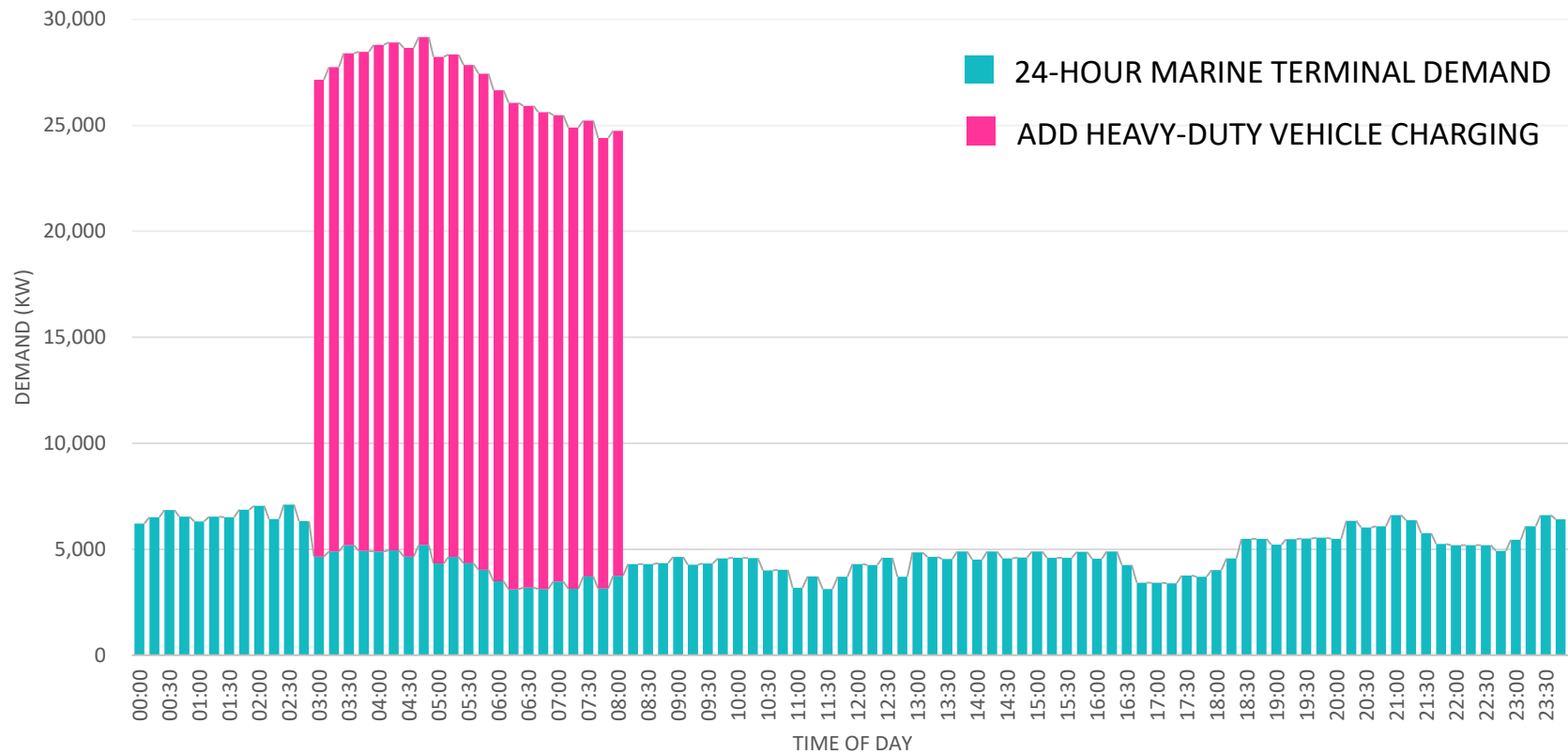
# CLEAN AIR ACTION PLAN GOALS:

ZE marine terminal equipment by 2030

ZE on-road trucks by 2035











**INNOVATION:** The stationary battery energy storage system is DC-coupled which reduces power loss from traditional DC-to-AC inversion, eliminates some equipment costs, and provides the opportunity to feed future DC loads. A bi-directional inverter allows the battery to accept electrons from both the solar panels and the grid.

**Mobile-BESS**  
250kW / 500kWh

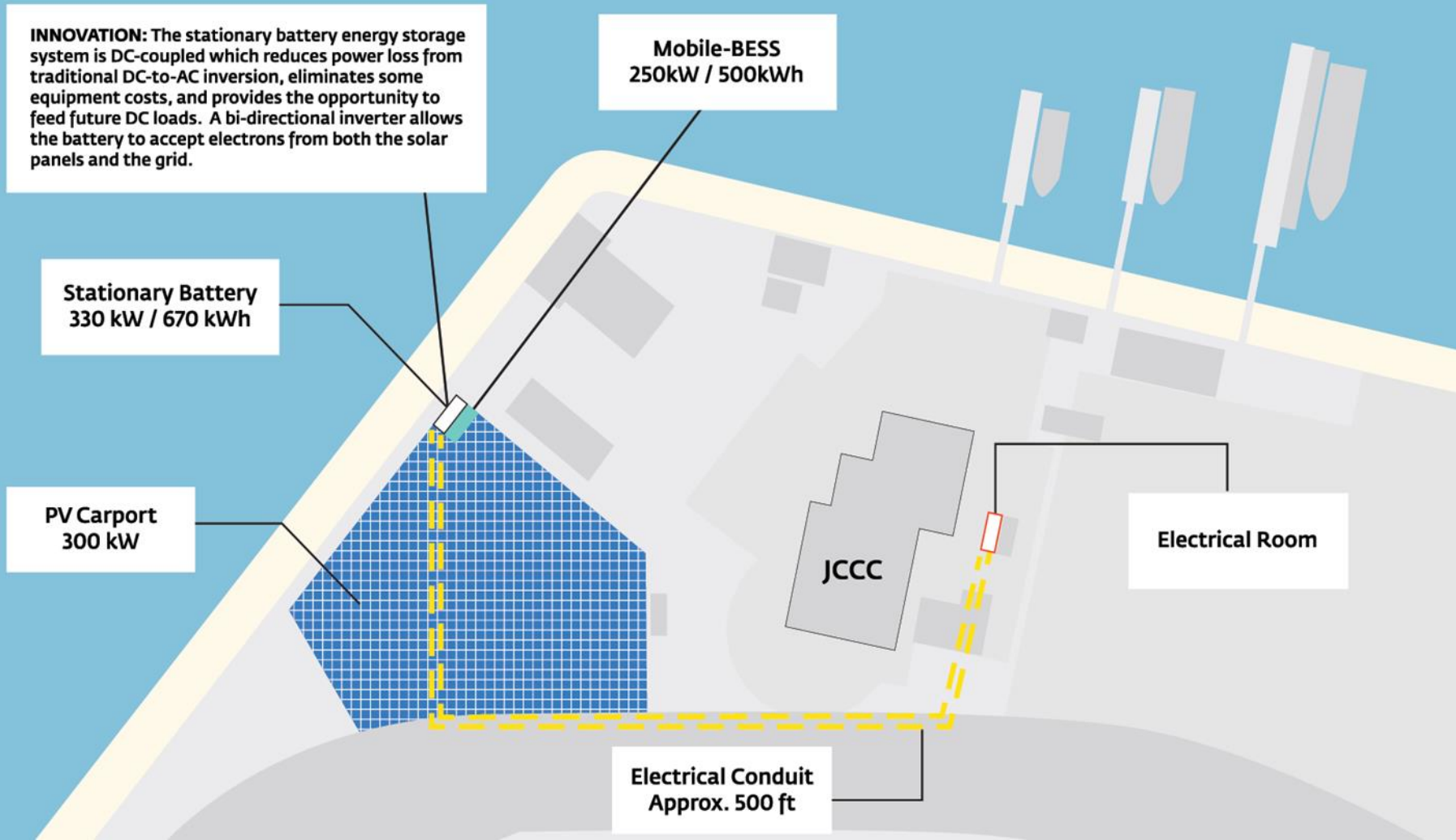
**Stationary Battery**  
330 kW / 670 kWh

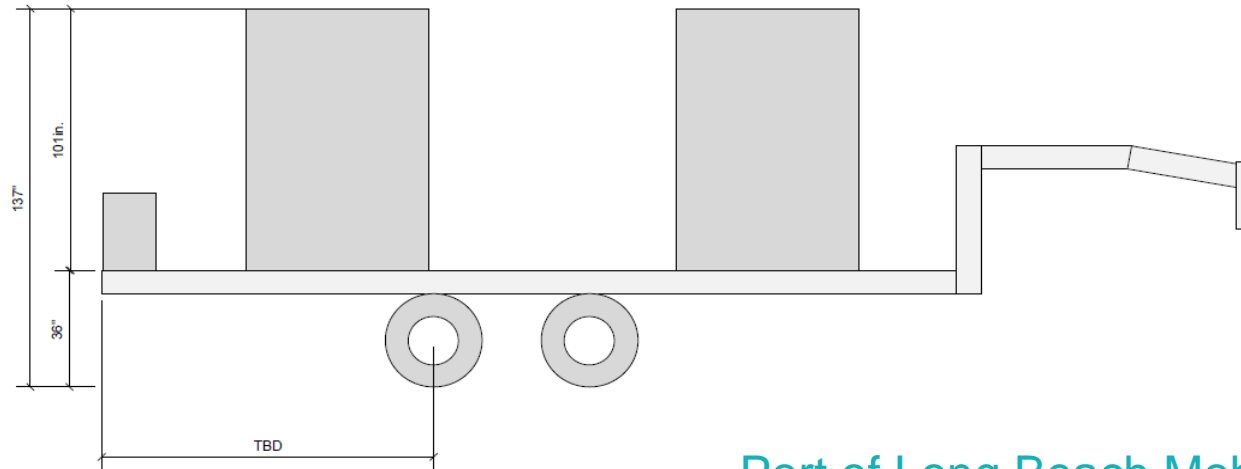
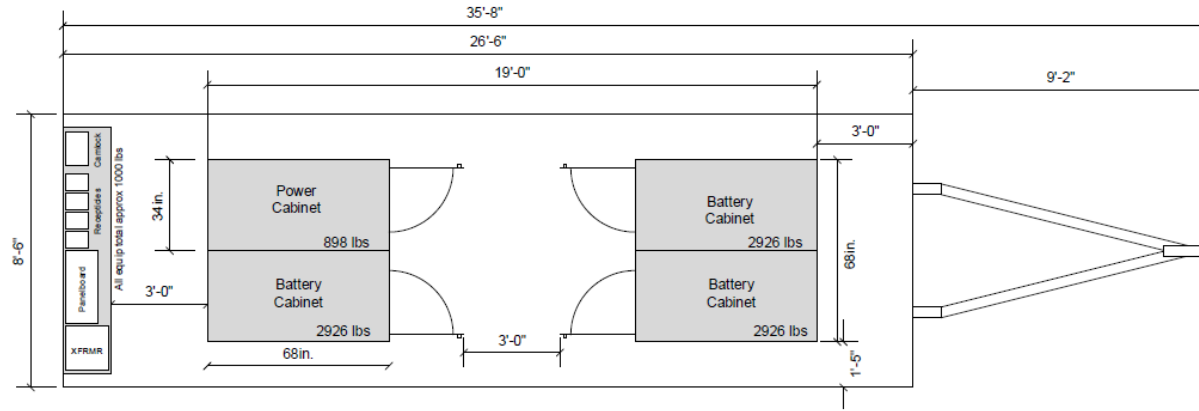
**PV Carport**  
300 kW

JCCC

**Electrical Room**

**Electrical Conduit**  
Approx. 500 ft





Port of Long Beach Mobile-BESS

# THANK YOU