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Port of Long Beach
Clean Energy Needs and Challenges

Southern California – SB 100 Workshop on October 29, 2019

Heather Tomley
Acting Managing Director of Planning & Environmental Affairs
2017 CLEAN AIR ACTION PLAN UPDATE
ZERO EMISSIONS GOALS

CARGO-HANDLING EQUIPMENT BY 2030

HEAVY-DUTY PORT TRUCKS BY 2035
Total POLB Demand - Pre ZE

- Peak Coincident Demand: 38.4 MW
- Base Load Range: 202 to 191 kW

# of Electric Meters with Coincident Data
TTI 24-HOUR DEMAND, JULY 7, 2014
TTI 24-HOUR DEMAND, JULY 7, 2014

ADD HEAVY DUTY VEHICLE CHARGING
Power Systems Challenges

Marine terminals are each individual customers of SCE

Concerns about cost increases

Limited opportunity for on-site renewable energy generation or storage

Other potential distributed energy resources in the vicinity but distribution doesn’t exist

Huge increases of power demand may impact availability to all customers in the area

Grid vulnerabilities will increase; outages at seaports can have regional impacts if cargoes are perished and work time is lost
Power Systems Resilience Assessment

What does resilience mean for the port? What fence lines should we consider?

What Port resources currently provide resilience?

What is the value of additional “resilience” resources?

What design considerations will improve resilience?

How will the assessment support future planning?
THANK YOU