Port of Los Angeles
Energy Management Action Plan

Roadmap to improve the energy profile at the Port while keeping up with the accelerating electrification and energy demand.
EMAP Energy Pillars

- Resiliency
- Availability
- Reliability
- Efficiency
- Sustainability
Clean Air Action Plan

Strategies

• Clean Vehicles and Equipment Technology and Fuels
• Freight Infrastructure Investment and Planning
• Freight Efficiency
• Energy Resource Planning
Pasha Stevedoring & Terminals

- U.S. Owned Company Founded in 1947
- Moves $600 MM in Cargo Annually
- Omni Terminal
  - Break Bulk
  - Containers
- Committed to Sustainability & Resiliency
Green Omni Terminal Project

Serve as a Model for Sustainability & Resiliency

Port of Los Angeles Green Omni Terminal

Other Maritime Terminals

Railyards

Warehouses

Distribution Centers

Exporting Green Technologies to the Southern California Region
Pasha Terminal – Green Omni Terminal Project
Demonstrated Technologies

Four (4) electric yard tractors

Three (3) 21-ton electric forklifts

Two (2) on-road drayage trucks

At-berth ship emission control systems to reduce harmful emissions

Charging Infrastructure

Integrated 1 MW solar photovoltaic and battery storage system
ShoreKat Emissions Treatment System
Electric Cargo Handling Equipment
Electrical Infrastructure Upgrades
Pasha Solar Microgrid Demonstration

- Back-up Generation/Battery Storage
- Solar Array Provides Power Every Day
- Battery Storage Allows Solar to Operate
- Back-up Generation Runs w/o Grid

Grid Power

Port Substation

Terminal Operates When Needed
Pasha Green Omni Terminal

Zero and near-zero emission technologies to improve air quality in our community

- 3,200 Tons Per Year
  - Greenhouse Gases REDUCED

- 56,000 Pounds Per Year
  - Diesel Particulate Matter, Nitrogen Oxides & Other Harmful Emissions ELIMINATED

- 14,100 Cars Off The Road Per Day
  - Equivalent South Coast Air Basin CLEAN AIR GAINS
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CREATE AMAZING.