

# **2018 CARL MOYER PROGRAM**



**SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT**

## **CARGO HANDLING EQUIPMENT**

# Cargo Handling Equipment Types



- Any motorized vehicle used to handle cargo delivered by ship, train, or truck, or used for scheduled or routine maintenance activities
- Rubber-tired gantry (RTG) cranes
- Yard trucks
- Other cargo handling equipment
  - Top handlers, side handlers, reach stackers, forklifts, loaders, aerial lifts, excavators, dozers, etc.



# Applicable Regulation



- **Mobile Cargo Handling Equipment at Ports and Intermodal Rail Yards (CHE regulation)**
  - Establishes best available control technology (BACT) for new and in-use cargo handling equipment
- **Due to CHE regulation, funding opportunities are limited**
- **Project must achieve “surplus” emission reductions**
  - The emission reductions from the project must not be required by any federal, state or local regulation, MOA/MOU, settlement agreement, mitigation requirement or other legal mandate

# CHE Compliance Deadlines

(In-Use Yard Truck Fleets)



- All yard trucks should be meeting requirements for Mobile Cargo Handling Equipment at Ports and Intermodal Rail Yards
  - Title 13 CCR § 2479, subsection (e)(2)

# Project Categories



## **Engine Repower**

Replacement of an in-use engine with a zero-emission power system\*

## **Equipment Replacement**

Purchase of new, zero-emission equipment replacing fully functional equipment

\*Note: Old engine must be scrapped, unless a case-by-case approval is granted

# Sample Project Types



- **Zero-emission power/propulsion system**
- **Replace the existing RTG crane with an electric RTG crane**
- **Replace the existing RTG crane with a rail-mounted gantry (RMG) crane**
- **Replace a yard truck with an electric-powered truck**

# Maximum Funding Level



- **Maximum funding levels if cost effectiveness limit is not exceeded:**
  - 85% for repower to zero emission
  - 80% for equipment replacement

# Sample Project Costs



- **RTG Crane Electrification**

<b>Eligible Costs</b>	<b>Ineligible Costs</b>
<p>Purchase of a new electric-powered crane or purchase and installation of a zero-emission power system.</p> <p>Costs for equipment modification, infrastructure to supply electrical power, utility construction, and costs to increase the capacity of electrical power to the crane</p>	<p>Design, engineering, consulting, environmental review, legal fees, permits, licenses and associated fees, taxes, metered costs, insurance, operation, maintenance, and repair</p>



# Actual Grant Amount



- Final grant award may be less than the funding levels in the program guidelines
- Based on information in the application:
  - Model year and tier of old engine
  - Horsepower of old engine
  - Hours per year equipment is operated
  - Project life (up to 10 years for zero emission replacement or repower)

# Funding Requirements



- Existing equipment must be in compliance with the CHE Regulation
- Equipment utilizing regulatory extensions are not eligible for funding
- Existing engine must be certified by the California Air Resources Board to qualify for Carl Moyer Program funding

# Application Reminders



- Legible picture of equipment serial plate/tag
- Legible picture of engine tag
- Usage history (i.e., hour meter readings)
- Fleet compliance

# Questions/Contact Information



## Carl Moyer Program

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