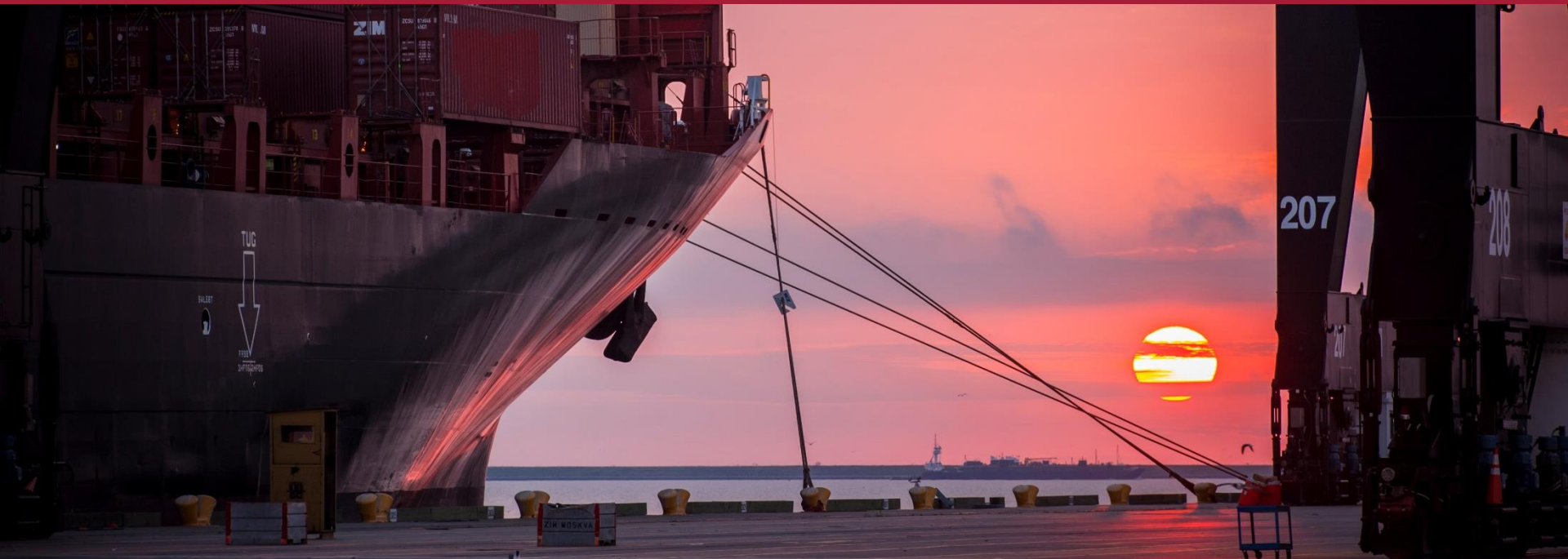




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Clean Cities Technologies Conference

Ken Gathright | Environmental Compliance Coordinator | Port Houston | November 14, 2017



Port Commission



Janiece M. Longoria
Chairman



John D. Kennedy



Dean E. Corgey



Clyde Fitzgerald



Theldon R. Branch, III



Stephen H. DonCarlos



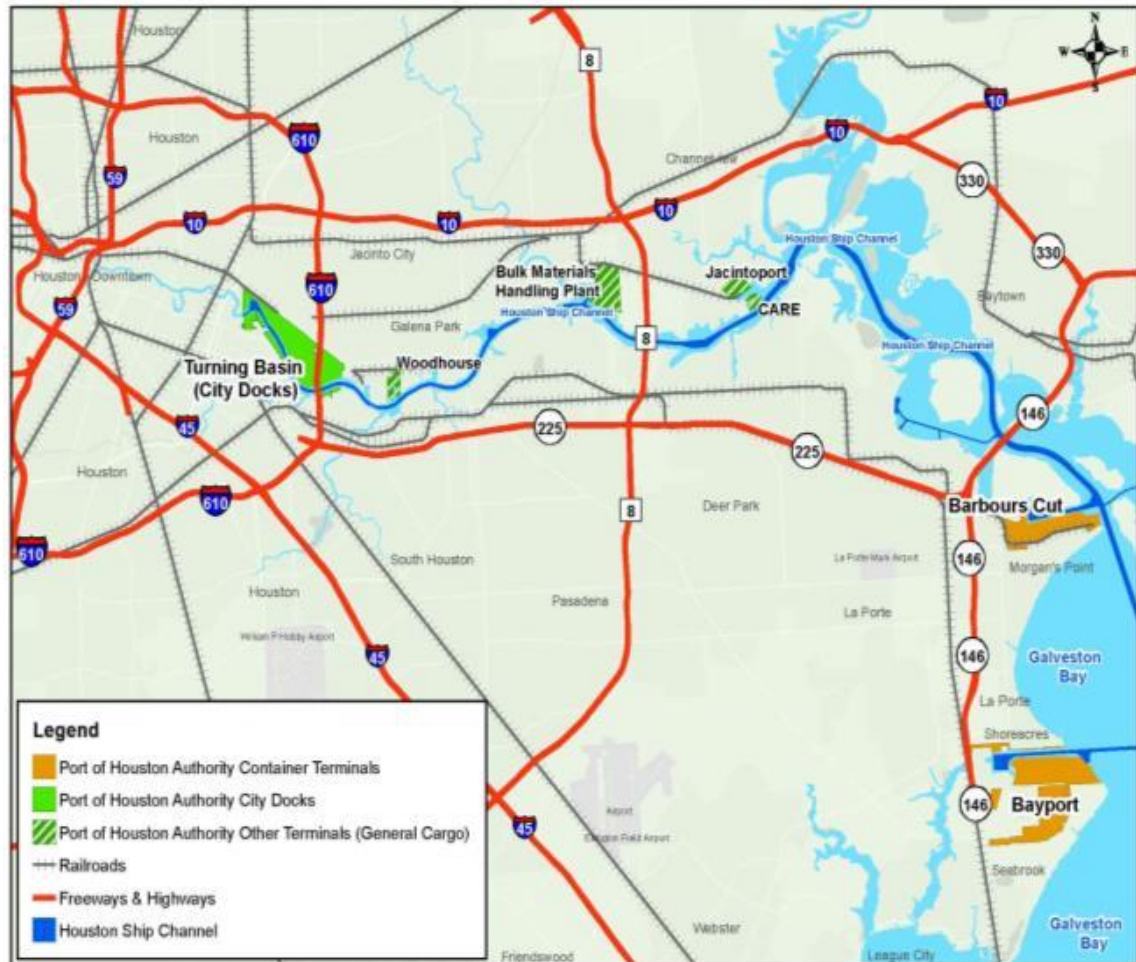
Roy D. Mease

What is Port Houston?



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- Port Houston = Port of Houston Authority
- Port Houston is comprised of 8 operating facilities among the 150+ private and public facilities that line the Houston Ship Channel.



Diesel Emissions Reduction Act (DERA)



- DERA originally authorized under the Energy Policy Act of 2005
- Amended by the Diesel Emissions Reduction Act of 2010 (Public Law 111-364)
- Enables EPA to offer funding assistance
 - Goal is to reduce diesel emissions
 - Competitive process for eligible entities
- Only government and nonprofits can apply
 - BUT – private sector can partner with eligible entities

DERA Eligible Projects



- Verified Exhaust Control Technologies
- Verified/Certified Engine Upgrades and Remanufacture Systems
- Verified/Certified Cleaner Fuel Use
- Verified Idle Reduction Technologies
- Verified Aerodynamic Technologies & Low Rolling Resistance Tires
- Certified Engine Replacement
- Vehicle and Equipment Replacement
- Certified Clean Alternative Fuel Conversion

DERA Funding Changes



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- From 2008 to 2015 – repowers and replacements projects funded at same level no matter the technology
- In 2016 and 2017 - funding percentages were increased for natural gas and electric repowers and replacements

| ONROAD | Repower | Replacement |
|---------------------------------|---------|-------------|
| Diesel | 40% | 25% |
| CARB Low-NOx Standard (CNG/LPG) | 50% | 35% |
| Electric | 60% | 45% |

| Locomotive, Marine, and Nonroad | Repower | Replacement (Marine not eligible) |
|---------------------------------|---------|-----------------------------------|
| Diesel | 40% | 25% |
| Electric | 60% | 45% |

DERA Recent Activity



- Three entities in the Houston/Galveston area have been selected for 2017 DERA funding
 - Port Houston is one of these entities
 - Expect to be awarded \$143,500 to replace a sweeper, fuel truck, work truck, and two buses
- EPA Region 6 press release will announce 2017 DERA awards late November/early December
- Next DERA call for projects in Spring 2018 for around \$35 million

Port Houston DERA Grants



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- Port Houston has been awarded \$8.2 million in DERA funds
 - 64 yard tractor replacements
 - 26 yard tractor retrofits
 - 31 forklift replacements
 - 14 forklift repowers
 - 1 rubber wheel loader replacement
 - 3 marine engine repowers
 - 13 drayage truck replacements
 - Cleaner fuel use in 163 ocean-going vessel calls





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THANK YOU

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