

# Medium- & Heavy-Duty Electric Operations Webinar

Presented by South Shore Clean Cities, Chicago Area Clean Cities & Wisconsin Clean Cities



*Winter Webinar Series*

**Webinar: Medium- & Heavy-Duty Electric Operations**

**January 13, 2021 1 p.m.-2 p.m. CST**



# Speaker Lineup



**U.S. EPA Region 5**  
Anthony Maietta  
Midwest Clean Diesel  
Initiative Coordinator

# Speaker Lineup



**Alta Equipment Company**  
Michael Morton  
General Manager



**ROUSH CleanTech**  
Ryan Zic  
Vice President of Sales



**Orange EV**  
Kurt Neutgens  
President & Chief  
Technology Officer



**Voss Equipment**  
Jayme Bannerman  
Trackmobile Sales Specialist

# Clean Cities Partnerships





# Partnerships & Grant Acquisitions



# Contact Us!



## **Chicago Area Clean Cities**

Samantha Bingham

Coordinator/CDOT Program Director

312-744-8096

[Samantha.Bingham@cityofchicago.org](mailto:Samantha.Bingham@cityofchicago.org)



## **South Shore Clean Cities**

Carl Lisek

Executive Director

219-644-3690

[clisek@southshorecleancities.org](mailto:clisek@southshorecleancities.org)



## **Wisconsin Clean Cities**

Lorrie Lisek

Executive Director

414-221-4958

[Lorrie.Lisek@wiccleancities.org](mailto:Lorrie.Lisek@wiccleancities.org)

# **Funding Options For Medium- and Heavy Duty Electric Operations through EPA's Diesel Emissions Reduction Act and Partner Programs**

**Anthony Maietta, EPA Region 5**

**Midwest Clean Diesel Initiative Coordinator**

**January 13, 2021**

# What Pollutants does EPA regulate?

- **Criteria Pollutants**

- 6 major pollutants covered in Clean Air Act

- Ozone
    - Particulate Matter
    - Carbon Monoxide
    - Nitrogen Dioxide
    - Sulfur Dioxide
    - Lead

- **Air Toxics**

- **Indoor Air Pollutants**



## Regulatory Approaches

- Criteria Pollutant Regulations (PM and Ozone)
- Fuel Regulations
- Engine Standards

## Voluntary Approaches:

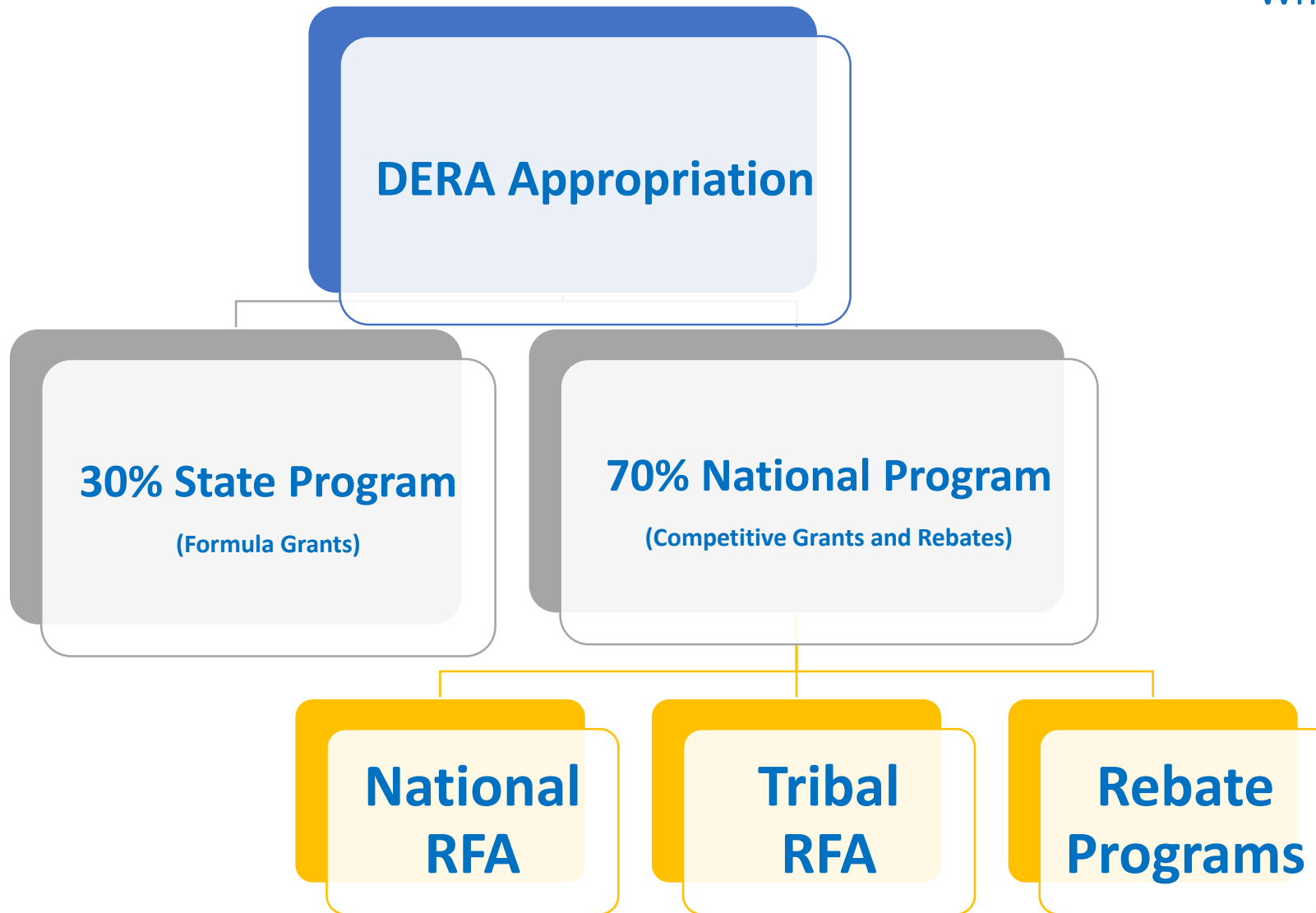
- Midwest Clean Diesel Initiative (MCDI) National Clean Diesel Campaign (NCDC): administer Diesel Emission Reduction Act (DERA) funds



# Diesel Emissions Reduction Act

- Provides funding, on a competitive basis, to eligible entities, to achieve significant reductions in diesel emissions in terms of pollution produced and diesel emissions exposure, particularly from fleets operating in areas designated by the Administrator as poor air quality areas
- Funds projects using an EPA or CARB-certified engine configuration or a verified technology (aka retrofit)





## Who can apply for DERA Grants?

- ▶ Regional, state, local, tribal or port agency with jurisdiction over transportation or air quality; and
- ▶ Nonprofit organization or institution which
  - ▶ Represents or provides pollution reduction or educational services to persons or organizations that operate diesel fleets; or
  - ▶ Has, as its principal purpose, the promotion of transportation or air quality
- ▶ For-profits and individuals can benefit through partnerships with eligible entities

# Eligible Vehicles, Engines & Equipment

- May include, but are not limited to:
  - Buses;
  - Class 5 – Class 8 heavy-duty highway vehicles;
  - Marine engines;
  - Locomotives engines; and
  - Non-road engines, equipment or vehicles used in:
    - Construction; Handling of cargo (including at a port or airport); Agriculture; Mining; or Energy production (including stationary generators and pumps)

# What will EPA Fund? (note: 2020 RFA funding percentages listed)

- **Certified Clean Alternative Fuel Conversion:** 40%
- **Certified Vehicle/Equipment Replacement:**
  - 25% of a vehicle powered by a diesel or alternative fueled engine (including hybrids) certified to EPA emission standards;
  - 35% of a vehicle powered by an engine certified to meet CARB's Optional Low-NOx Standards;
  - 45% of a vehicle powered by a zero tailpipe emission power source.
  - Replacement of Drayage Trucks: 50%
- **Certified Engine Replacement:**
  - 40% of a diesel or alternative fueled engine (including hybrids) certified to EPA emission standards
  - 50% of the cost of an engine certified to meet CARB's Optional Low-NOx Standards
  - 60% of the cost of a zero tailpipe emission power source
- **Verified Idle Reduction Technologies:**
  - **On-Highway Idle Reduction Technologies:** 100% if combined, 25% if stand-alone.
  - **Locomotive Idle Reduction Technologies:** 40%
  - **Marine Shore Connection Systems:** 25%
  - **Electrified Parking Spaces:** 30%



# State Funding Resources and CC Partners

**WI:** <https://doa.wi.gov/Pages/vwsettlementwisconsin.aspx>

- Primarily public transit diesel replacements for diesel portion
- EV charging station component
- Clean Cities partner: <https://wicleancities.org/>

**IL:** <https://www2.illinois.gov/epa/topics/air-quality/driving-a-cleaner-illinois/Pages/default.aspx>

- Primarily Chicago/E. St. Louis areas
- Clean Cities partner: <https://chicagocleancities.org/>

**IN:** <https://www.in.gov/idem/airquality/2561.htm>

- VW and DERA offerings, mostly state-wide (with priorities noted)
- Clean Cities partner: <https://southshorecleancities.org/>

# EPA's Clean Diesel Programs



## National Clean Diesel Campaign

<http://www.epa.gov/dera>

## Midwest Clean Diesel Initiative

<http://www.epa.gov/midwestcleandiesel>

## EPA Ports Initiative

<http://www.epa.gov/ports-initiative>

## EPA's SmartWay Transport Partnership

<http://www.epa.gov/smartway>

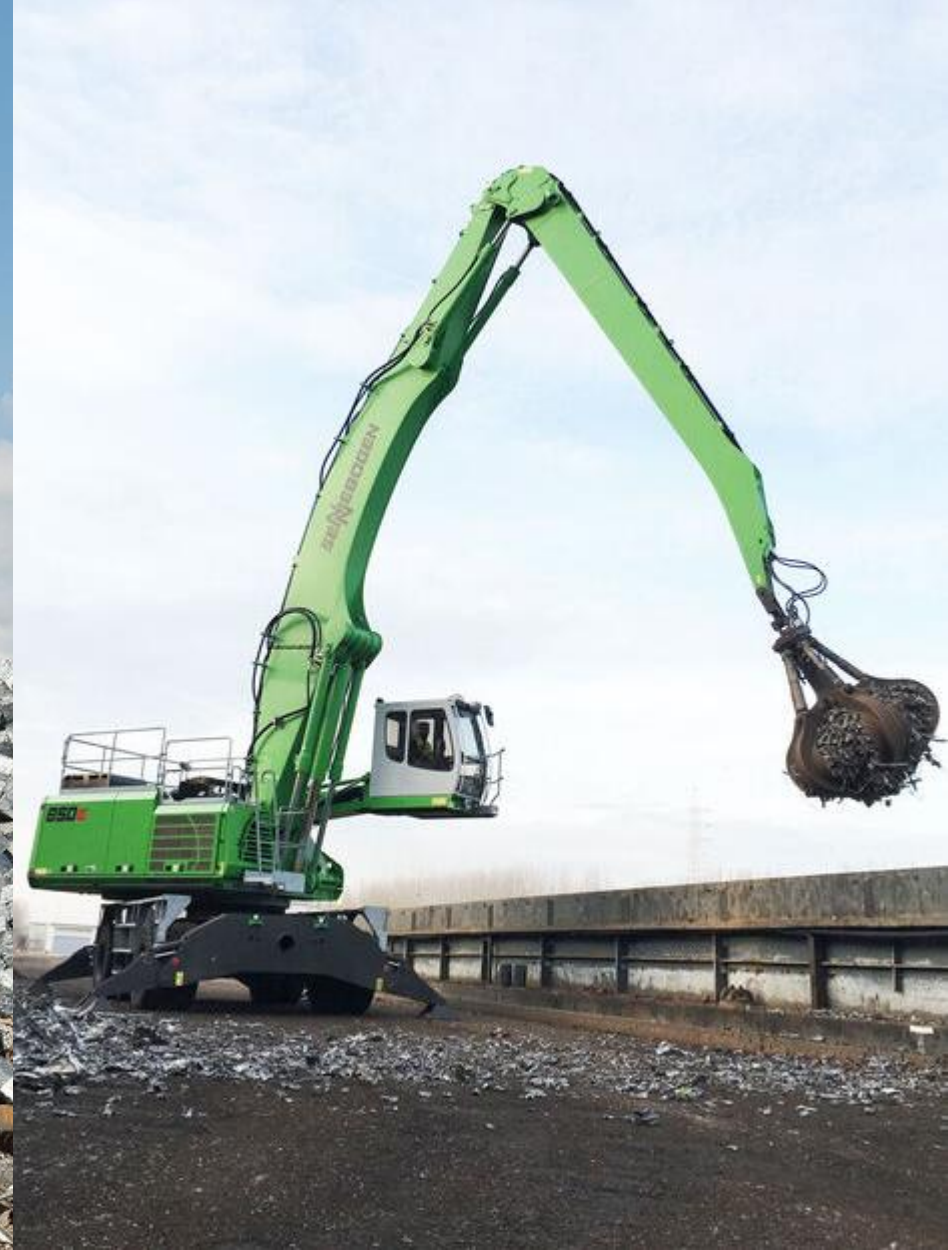
For More Information Contact:

**Anthony Maietta**

[maietta.anthony@epa.gov](mailto:maietta.anthony@epa.gov)

**(312) 353-8777**

**ALTA**  
**EQUIPMENT**  
**COMPANY**



**Michael Morton – General Manager**





Safer  
Lower cost  
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More reliable  
Zero emission  
Mobile Service



Terminal Trucks

Kurt Neutgens - President & Chief Technology Officer



**VOSS EQUIPMENT, INC.**



**Jayne Bannerman – Trackmobile Sales Specialist**



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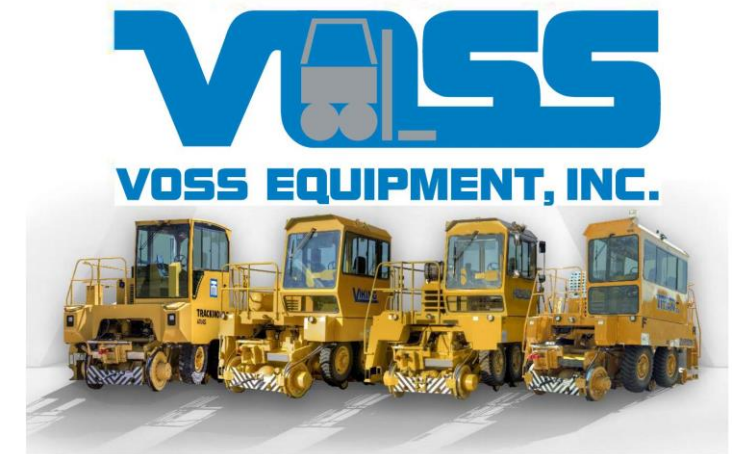
## CLEANTECH



**Ryan Zic – Vice President of Sales**

# Roundtable discussion

**ALTA**  
EQUIPMENT  
COMPANY



**ROUSH**<sup>®</sup>  
CLEANTECH



**Type your questions in the chat box!**





# Connect with our speakers!



**U.S. EPA Region 5**

Anthony Maietta  
Midwest Clean Diesel  
Initiative Coordinator  
312-353-8777

[Maietta.Anthony@epa.gov](mailto:Maietta.Anthony@epa.gov)



**Alta Equipment Company**

Michael Morton  
General Manager  
847-224-0799

[Michael.Morton@Altg.com](mailto:Michael.Morton@Altg.com)



**Orange EV**

Kurt Neutgens  
President & Chief  
Technology Officer  
734-507-1228

[KurtN@OrangeEV.com](mailto:KurtN@OrangeEV.com)



**Voss Equipment**

Jayme Bannerman  
Trackmobile Sales Specialist  
734-679-7124

[JBannerman@VossEquipment.com](mailto:JBannerman@VossEquipment.com)



**ROUSH CleanTech**

Ryan Zic  
Vice President of Sales  
734-679-7124

[Ryan.Zic@ROUSH.com](mailto:Ryan.Zic@ROUSH.com)

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# Coming Up...



**Capitol Hill Update & Biden Administration  
Forecast Webinar  
Friday, January 15, 2021  
12 p.m. - 1 p.m. CST**



**Sustainable Ports & Goods Movement Webinar  
Feb. 24, 2021, 1 p.m.-2 p.m. CST**



Chicago Area Clean Cities Events Page: <https://chicagocleancities.org/events/>  
South Shore Clean Cities Events Page: <https://southshorecleancities.org/event/>  
Wisconsin Clean Cities Event Page: <https://wicleancities.org/events/>

# Thank you for attending!

