

# Sustainable Ports & Goods Movement Webinar

Presented by South Shore Clean Cities



**Sustainable Ports & Goods Movement Webinar**

**Feb. 24, 2021, 1 p.m.-2 p.m. CST**



# Speaker Lineup



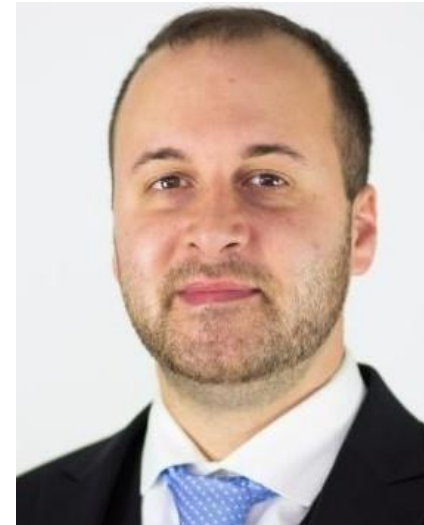
**Indiana Department of  
Environmental Management**  
Shawn Seals  
*Senior Environmental  
Manager*



**Cummins**  
Joe Stack  
*Industrial Account Executive  
for Rail & Marine*



**Port of Indiana –  
Burns Harbor**  
Ian Hirt  
*Port Director*



**Wendella Tours & Cruises**  
Andrew Sargis  
*Chief of Operations*

# About South Shore Clean Cities

## Successes

- In the last decade, South Shore Clean Cities members have reduced greenhouse gas emissions by **607,000 tons** and displaced over **93 million gallons**.
- In 2020 alone, South Shore Clean Cities stakeholders were awarded **\$9.8 Million** in grant dollars.





# Partnerships & Grant Acquisitions

## Support Services

- Educational fuel & technology workshops, trainings, seminars and Webinars
- Grant writing services
- Grant administration & support
- Fleet audits and emission quantifications
- Connections with vendors offering sustainable transportation options





# Thank You!



## **South Shore Clean Cities**

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Project Manager

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St. John, IN 46373



# IN Department of Environmental Management

## 2021 DieselWise Indiana and Volkswagen Grants

Shawn Seals – DieselWise Indiana Administrator



# Indiana Clean Diesel Coalition

- IDEM and SSCC have worked collaboratively on clean diesel programs since 2000, starting with the Northwest Indiana Diesel Emissions Reduction (NIDER) initiative
- Mutual goals have always been to improve air quality and quality of life in Indiana
- A clear focus on teamwork and open communication allows the coalition to thrive through various challenges





# Why the nonroad focus of DERA option?

- **Diesel engines are the workhorses of the nation. Hours of use, engine useful life and duty cycles of nonroad diesel engines are generally much higher than the onroad sector. The legacy fleet still in use continues to emit large amounts of nitrogen oxides, particulate matter and air toxics which are linked to premature deaths, asthma attacks, lost workdays and other health impacts every year.**
- **The National Volkswagen Environmental Mitigation Trust allows for funds to be directed to DERA-based programs. The DieselWise Indiana DERA-based program provides greater flexibility for the nonroad sector than the Indiana Volkswagen Mitigation Trust Program itself.**





# Indiana VW Mitigation Breakdown

## Round 1: 9/19/19 Onroad/Nonroad

- Total Projects Awarded: 34
- Total Amount Awarded: \$9,830,683
- Total Equipment Funded: 179

## SSCC Success

27

\$6,915,513 (70.7%)

118

## Round 1: 1/31/20 DERA Option

- Total Projects Awarded: 5
- Total Amount Awarded: \$1,311,298
- Total Equipment Funded: 6

## SSCC Success

4

\$1,017,112 (77.6%)

4



# Indiana VW Mitigation Breakdown

## Round 2: 11/23/20 Onroad/Nonroad

- Total Projects Awarded: 17
- Total Amount Awarded: \$6,150,000
- Total Equipment Funded: 193

## SSCC Success

16

\$5,334,979 (94%)

120

## Round 2: 1/13/21 DERA Option

- Total Projects Awarded: 6
- Total Amount Awarded: \$2,253,537
- Total Equipment Funded: 17

## SSCC Success

6

\$2,253,537 (100%)

17

# Upcoming Funding Opportunities

**\$11.6 million is coming for onroad and nonroad diesel projects.**

- **Spring 2021 – VW Onroad and Nonroad Program**
  - **\$9.8 million available**
  - **Grant range of \$50,000 to \$750,000**
- **Fall 2021 – DieselWise Indiana with VW DERA Option**
  - **\$1.8 million available**
  - **Grant range of \$50,000 to \$1,000,000**



# Previously Awarded Port Projects

**2011 Kawasaki 90ZV-2**



**Annual Hours:** 1,880  
**Annual Consumption:** 11,844 Gallons  
**Horsepower:** 271  
**Old Engine:** Cummins QSM11 Tier 3 Engine

**2020 Hitachi ZW310**



**Annual Consumption Reduced:** 2,961 Gallons  
**New Horsepower:** 272  
**New Engine:** Cummins QSL9 Tier 4 Final Engine



# Previously Awarded Port Projects

**1982 Trackmobile 95TM**



**Annual Hours:** 1,100

**Annual Consumption:** 1,200 Gallons

**Weight:** 29,000 lbs.

**Horsepower:** 120

**Old Engine:** Detroit Diesel 4-53 Unregulated

**2020 Zephir LOK 13.90E**



**Full Charge Time:** 8 Hours @ 480V 3-Phase

**Weight:** 52,910 lbs.

**Towing Capacity:** 5,732,000 lbs.

**Batteries:** 80V / 930Ah Lead Acid

**Powertrain:** (2) 30 kW AC Brushless Motors

**Battery Charger:** On board 80V, 150A

# Previously Awarded Port Projects

**(2) Articulated Off Road Truck**



**Annual Hours:** 2,242  
**Annual Consumption:** 95,220  
**Horsepower:** 417  
**Old Engine:** Volvo D12, Tier 2

**(2) 2015 Caterpillar 745C**



**Annual Consumption Reduced:** 28,698 Gallons  
**New Horsepower:** 504  
**New Engine:** Caterpillar C18, Tier 4 Final Engine



# Previously Awarded Port Projects

## Drayage Trucks



**Drayage Truck Definition:** Diesel fueled, heavy duty (Class 8) Trucks that transport bulk, containers or commodities between the port and intermodal rail facilities, distribution centers and other near-port locations. These trucks traditionally qualify for 50% off replacement

# Contact Information



## **DieselWise Indiana Website**

[www.idem.IN.gov/airquality/2561.htm](http://www.idem.IN.gov/airquality/2561.htm)

## **IDEM Website**

[www.idem.IN.gov](http://www.idem.IN.gov)



## **Shawn Seals**

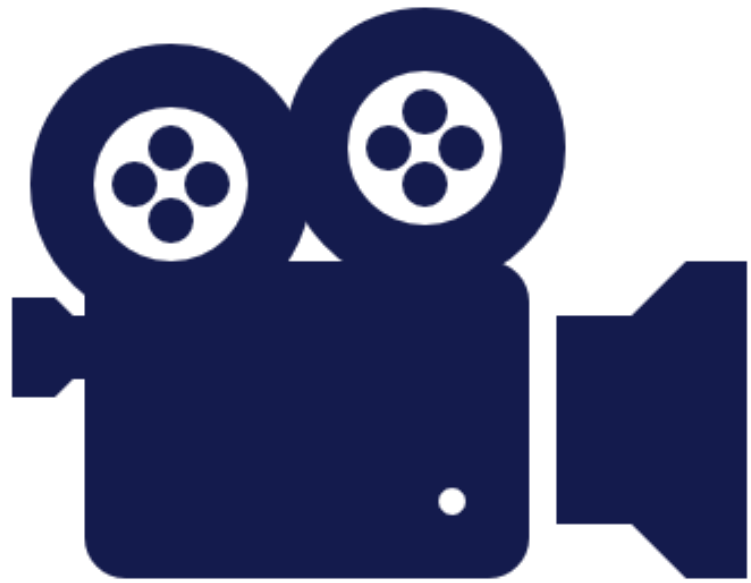
DieselWise Indiana Administrator

IDEM – Office of Air Quality

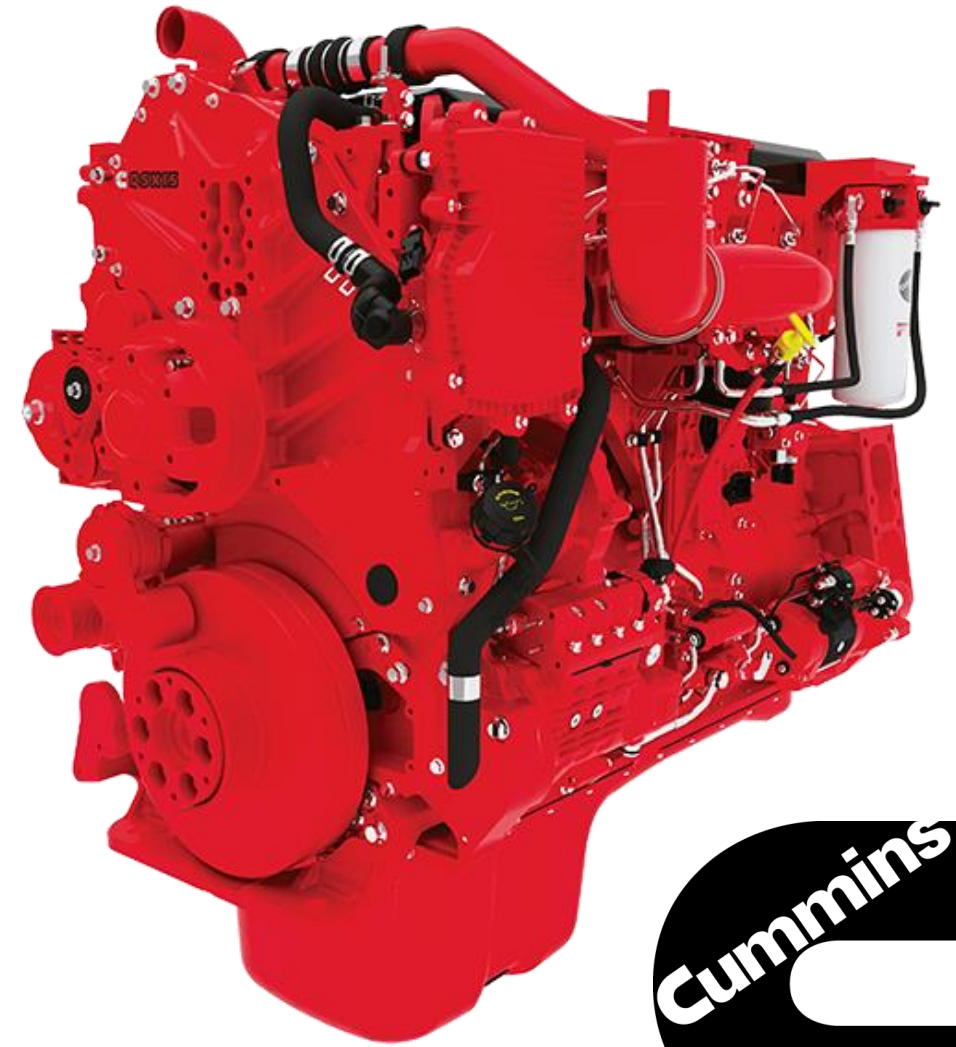
(317) 233-0425

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# **South Shore Clean Cities 2019 U.S. EPA DERA Projects Video**



**Joe Stack – Industrial Account Executive for Rail & Marine**





Ian Hirt – Port Director



# wendella<sup>1935</sup>

TOURS & CRUISES ★ PRIVATE EVENTS ★ CHICAGO WATER TAXI



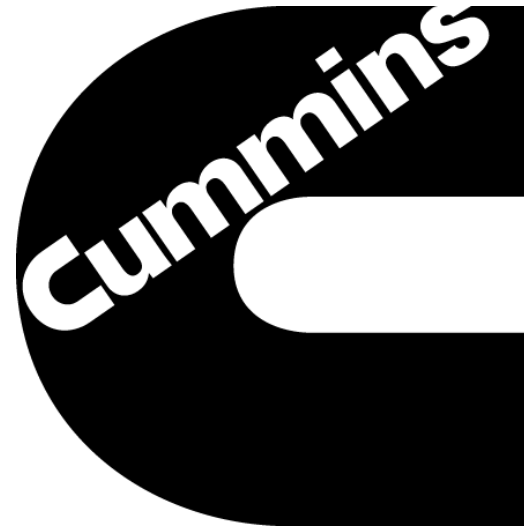
**Andrew Sargis – Chief of Operations**



# Roundtable discussion



**PORTS OF INDIANA**



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



# Connect with our speakers!



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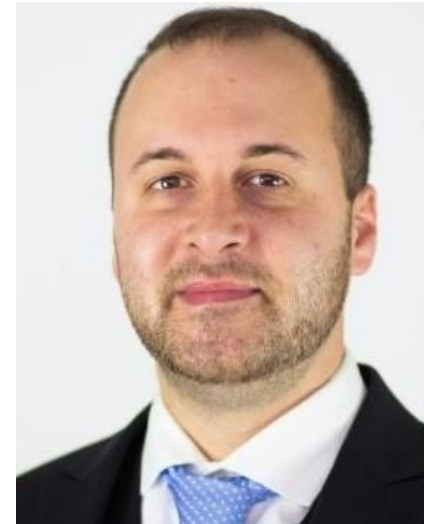


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# Coming Up...



## Winter Webinar Series

Webinar: Clean Diesel Applications

Wednesday, March 17, 2021 | 11 a.m. - 12 p.m. CST



## Nonroad Equipment Operations Webinar

April 7, 2021  
1 p.m.-2p.m. CDT

*Lake Michigan  
Consortium  
Webinar Series*



Visit [www.southshorecleancities.org/event/](http://www.southshorecleancities.org/event/) for more information



# Coming Up...



**Advancing Federal Alternative Fuel Policies &  
Priorities-FY2022 Appropriations Update Webinar  
Thursday, February 25, 2021  
2 p.m. - 3 p.m. CST**

Visit [www.southshorecleancities.org/event/](http://www.southshorecleancities.org/event/)  
for more information



**Annual Surveys Due March 2, 2021**



Visit <https://southshorecleancities.org/about/#report>  
to download the report

# Thank you for attending!



**South Shore Clean Cities**

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