



CONSTRUCTING CLEAN AIR

Incentive Programs

Amanda Graor

Mid-America Regional Council (MARC)



Chrissy Wolfersberger

U.S. Environmental Protection Agency (EPA)





GENERAL INCENTIVES

- Improve air quality
 - Reduce particulate matter and nitrogen oxides
- Save money
- Increase positive public recognition
- Pre-empt regulation
- **Contract incentives**
- Funding available now that may not be in the future



CONSTRUCTING CLEAN AIR PROJECT

- **Goal: reduce diesel emissions from construction equipment**
- Strategy: work with state departments of transportation to insert “clean construction” language into contracts
- Encourage companies to:
 - properly maintain equipment
 - reduce idling
 - retrofit diesel engines with verified technologies
 - replace older equipment
 - use cleaner fuels
 - repower equipment (i.e. replace older engines with newer, cleaner engines)



CLEAN CONSTRUCTION CONTRACTS

EXAMPLE 1

Northeast Diesel Collaborative (NEDC)

- *Why?*

To control diesel emissions from construction projects

- *Who?*

Projects with budget of more than \$2 million

- *Where?*

Urban areas or within 500 feet of schools, hospitals, etc.



NEDC'S SPECIFICATIONS

- All on-road diesel vehicles must meet EPA 2007 emissions standards
- All diesel generators on-site must have emission controls to reduce particulate matter (PM) by at least 85 percent
- All non-road equipment must have either Tier 4 engines or emission controls to reduce PM emissions by at least 20 percent
- Tier 0 engines not allowed on-site
- Use all ultra-low sulfur diesel (ULSD) on-site
- Idling cannot exceed three minutes in any 60-minute period



CLEAN CONSTRUCTION CONTRACTS

EXAMPLE 2

Texas Department of Transportation (TxDOT)

- Incentive funding for cleaner engines and fuels in areas with air quality issues.
- Specification applies for all TxDOT roadway and maintenance projects in affected counties
- Emissions Tier 1, 2 and 3 engines eligible for payment
- Incentives paid monthly

TxDOT INCENTIVE PAYMENTS

Emissions Tier	Incentive Payment Rate per Engine HP Rating	Example Payment for a 60-HP Engine
Tier 1	\$0.50	\$30/month
Tier 2	\$0.75	\$45/month
Tier 3	\$1.00	\$60/month

A silhouette of a city skyline with various buildings and structures, set against a blue and green gradient background.

FEEDBACK

This is where you talk!

- What contract incentives have you seen, if any?
- What would you respond to?
- What would deter you?
- Which practices would you be most likely to implement?
- How could clean construction fit in (or not) with federal stimulus funding for construction projects?