## TECHNOLOGIES NEEDED FOR FUTURE COMPLIANCE WITH OZONE STANDARDS

#### House Committee on Environmental Regulation Subcommittee on Air Quality and Municipal Landfills

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### NATIONAL AMBIENT AIR QUALITY STANDARDS

### Current Status of Dallas-Fort Worth Area Under Existing NAAQS



# FUND TEXAS EMISSIONS REDUCTION PLAN (TERP)

### **Fully Fund the Program**

Volkswagen Settlement NOT a Replacement for TERP

## **Appropriate Previously Collected Revenue**

- Projected Balance: \$1.74 Billion
- \$1 Billion ≈ 67.25 tons NO<sub>X</sub> Reduced per Day Statewide\*

## **Update Program Language**

 Prioritize Zero-Emission or Near-Zero Emission Engines

\*Estimated Based on Diesel Emissions Reduction Incentive Benefits Reported in the TERP Biennial Report 2015-2016. https://www.tceq.texas.gov/assets/public/comm\_exec/pubs/sfr/079-16.pdf

# RESTORE & FUND VEHICLE REPAIR AND REPLACEMENT PROGRAM

### **Fully Fund the Program**

## **Appropriate Previously Collected Revenue**

Projected Balance: \$303.7 Million

### **Modernize Programs**

Improve Funding Split Between Transportation Strategies and Vehicle Repair/Replacement

#### **Minimize Fraud**

# RESTORE & FUND AIR QUALITY FUNDING FOR NEAR-NONATTAINMENT AREAS

### **Reinstate Funding for Near-Nonattainment (Rider 7)**

## **Modernize Program Eligibility and Requirements**

 Encourage Technology Projects (e.g. Hood County Propane Equipment and Infrastructure)

### **REDUCE REGULATORY BARRIERS**

#### Revise Rule Language/Definitions to Accommodate New Technologies

- Allow Idle Reduction for Heavy-Duty Trucks at Rest Stops
- Allow Electric Vehicle Charging Stations to Charge Based on Fuel Instead of Time
- Allow Transmission Utilities to Use Battery Storage

### **CONSEQUENCES**

#### **Lost Revenues to State**

 Estimated \$75-100 Million from Light-Duty Vehicle Repair and Replacement Program

### Lost Opportunities for Economic Development

## **Higher Costs of Doing Business**

## Lost Productivity and Higher Health Care Costs

 Estimated \$5.8-\$21.2 Billion in Monetized Health Benefits Achieved through TERP\*

\*Extrapolated from EPA Third Report to Congress: Highlights from the Diesel Emission Reduction Program (<u>https://nepis.epa.gov/Exe/ZyPDF.cgi?Dockey=P100OHMK.pdf</u>), compared to funding awarded under TERP Diesel Emissions Reduction Incentive Program Reported in the TERP Biennial Report 2015-2016 (<u>https://www.tceq.texas.gov/assets/public/comm\_exec/pubs/sfr/079-16.pdf</u>).

## SUPPLEMENTAL INFORMATION





### ESTIMATED 2017 NO<sub>X</sub> ON-ROAD EMISSIONS INVENTORY FOR DFW AREA

Total NO<sub>x</sub> = 296.77 tons per day (tpd)



Source: Texas Commission on Environmental Quality, 2017 Dallas-Fort Worth 8-hour Ozone Attainment Demonstration State Implementation Plan

## **NEED FOR VEHICLE FLEET TURNOVER**



## **NEED FOR VEHICLE FLEET TURNOVER**

Age Distribution of Light-Duty Gasoline Vehicles in 2017 in the Dallas-Fort Worth Ten-County Nonattainment Region<sup>1</sup>



## PROGRAM COST EFFECTIVENESS<sup>1</sup> COST PER TON NO<sub>x</sub> REDUCED



<sup>1</sup> Source: FHWA-Cost Effectiveness Tables Summary. <u>http://www.fhwa.dot.gov/environment/air\_quality/cmaq/reference/cost\_effectiveness\_tables/costeffectiveness.pdf</u>, page 13.

## UPDATE REGULATORY DEFINITIONS AND REQUIREMENTS TO REMOVE UNNECESSARY OR UNINTENDED BARRIERS

Barrier	Impact on Clean Technologies
Commercial Services Prohibited in Interstate Right-of-Way (US Code Title 23 Section 111(a))	Precludes Installation of Electrified Parking/Idle Reduction for Heavy-Duty Diesel Trucks, or of Electric Vehicle Charging
EV Charging Stations Considered Retail Electric Providers by PUCT	Equity Issue for Electric Vehicle Charging Based on Unit of Time Rather than Unit of Fuel
Batteries Classified as "Generators" in Competitive Market by Public Utility Regulatory Act	May Preclude Deregulated Utilities from Incorporating Battery Storage to Optimize Grid Performance