



**Smart Energy Initiative**  
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# The 2013 Energy Briefing



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## Pennsylvania DEP



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DEPARTMENT OF ENVIRONMENTAL PROTECTION

Office of External Affairs



# **Pennsylvania's Natural Gas Vehicle Grant Strategy**

February 15, 2013



# Shale Gas Plays, Lower 48 States



Source: Energy Information Administration based on data from various published studies.  
 Updated: March 10, 2010



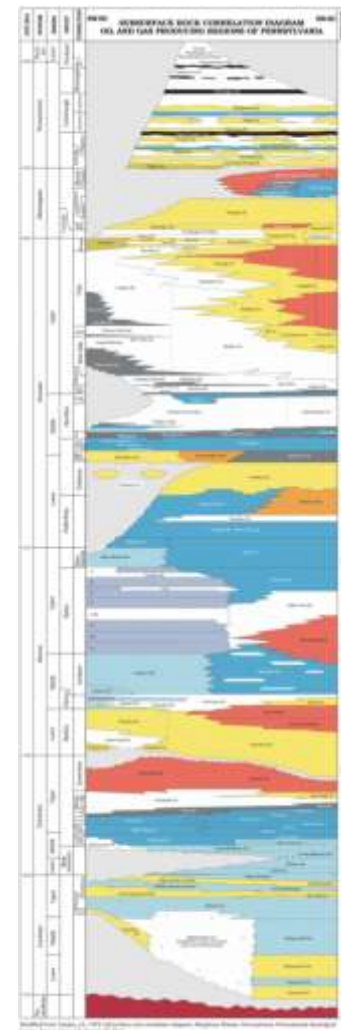


Oil and Gas Management

# Black Shale Formations

- Marcellus
- Utica
- Rhinestreet
- Huron
- Upper Devonian
  - Dunkirk
  - Pipe Creek
  - Middlesex
  - Genesee
  - Burket

Generalized Stratigraphic Section for Oil and Gas Region



# Today's Objective

## Review PA's Natural Gas Vehicle Strategy



# Pa. NGV Act 13 Grant Program

## Funding Opportunities

- Act 13 Phase 1
- Act 13 Phase 2
- AFIG Competitive Grant
- AFIG Rebate Program

# Pa. NGV Act 13 Grant Program

## Background

- Authorized by Act 13 of 2012
  - Competitive reimbursement grant for purchase or retrofit of vehicles to run on natural gas
- Up to \$20 million over 3 years
  - \$10 million in FY '12-'13 (closed February 1, 2013)
  - \$7.5 million in '13-'14 (tentative opening date July 2013)
  - \$2.5 million in '14-'15 (tentative opening date July 2014)



# Pa. NGV Act 13 Grant Program

## Act 13 Focus Areas

- Fleet vehicles:
  - Dedicated CNG over 14,000 lbs,
  - Dedicated LNG over 14,000 lbs,
  - Bi-fuel over 14,000 lbs.

# Pa. NGV AFIG Grant Program

## Background

- The AFIG Fund was established under Act 166 of 1992
- Up to \$10 million
- We will open the grant round in April 2013 for 60 days

# Pa. NGV AFIG Grant Program

## AFIG Focus Areas

- Natural Gas Vehicles under 14,000 lbs. This is intended to complement the Act 13 NGV program.
- Any size Electric, propane or other alternative fuel vehicles per application.
- Other innovation, development and alternative fuel for non-road vehicles.

# Pa. NGV Grant Programs

## The Basics

- Eligible costs:
  - Incremental purchase costs for new NGVs
  - Retrofit costs for existing vehicles
  - Equipment & installation costs only
- Ineligible costs:
  - Project development (engineering/FS/design)
  - Fueling infrastructure



# Pa. NGV Grant Program

## The Basics

- Grant awards capped at 50 percent of incremental purchase or retrofit cost per vehicle
- Grant awards capped at \$25,000 per vehicle

# Pa. NGV Grant Program

## The Basics

- Eligible applicants:
  - For-profit companies
  - Non-profit organizations
  - Commonwealth or municipal authorities
  - Pa. Turnpike Commission
  - State owned or state related universities
  - Local transportation organizations

# Pa. NGV Grant Program

## Personal Vehicle Rebates

- \$3,000 for vehicles with a battery system capacity 10 kWh or greater
- \$1,000 for vehicles with battery system capacity less than 10 kWh,
- \$1,000 are offered for natural gas, propane, hydrogen or fuel-cell vehicles,
- \$500 rebate is available for electric motorcycles and scooters.

# Pa. NGV Grant Program

## Additional initiatives

- Air Quality permit exemption for NGV fueling stations. (Exception 33).
- Mapping the location of all NGV fueling stations. (Both current and proposed)
- The completion of our Comprehensive Energy Analysis'
- The inclusion of NGVs in our K-12 energy education efforts.



# Pa. NGV Grant Program

## Recommendations

- Begin vehicle evaluations now
  - Identify best candidates for replacement and retrofit
  - Identify NGV options
- Identify likely fuel strategy or station(s)
  - Existing: verify availability and accessibility
  - New: determine costs, time needed, fuel source

# Pa. NGV Grant Program

## Recommendations

- Seek out other project partners
  - Check out our web site
- Don't wait until last minute!!
- Check our website for up coming outreach efforts
- [www.depweb.state.pa.us](http://www.depweb.state.pa.us)



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# Questions?



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## Q&A

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