NASEO Annual Meeting:
Energy and Multi-Pollutant Prevention in Minnesota

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Overview

• Minnesota has a longstanding history of progressive energy policies
• Focus on reducing greenhouse gas emissions and building a clean energy economy
• Currently Minnesota is falling short meeting its GHG reduction goals
• New policies under consideration to become more aggressive meeting goals
Current Initiatives

• Clean Air Minnesota
  – Public Private Partnership to address air quality issues
  – Addresses issues such as:
    • Permitted sources (e.g. smokestacks)
    • Non-permitted sources (e.g. comm, resi, ag)
    • On-road sources (e.g. cars and trucks)
    • Off-road sources (e.g. off-road vehicles & equipment)
  – Non-regulated sources need voluntary action
  – Goal: develop air quality projects yield measurable emissions reductions (partners agreed to a 10% reduction target) of fine particulate matter
Current Initiatives

- **Clean Air Minnesota Recommendations include:**
  - **Area Source Actions**
    - Reduce VOC emissions (edu/outreach) in mid-size C/I
    - Equipment Exchange (landscaping with small engines)
  - **EE & Renewable Energy**
    - Expand access to DG
    - Urban heat island mitigation/urban forestry
    - Expand conservation goals in public sector and private sector
    - Benchmarking and disclosure ordinances
  - **Mobile Diesel**
    - Alternative fuel infrastructure grants
    - Alternative fuel vehicle incentives for fleets
    - Edu/outreach re: truck idling
    - Incentives for diesel engine retrofit/repower/rebuild/replace
    - Emissions reductions for public fleets
  - **Point Source**
    - Air alert and stationary generator edu/outreach
  - **Transportation demand management & light duty vehicle**
    - Accelerate high-emitting vehicle retirement
    - Develop transit system (bus and rail) in 7 co metro region
    - High-emitting vehicle repair rebates
  - **Wood smoke**
    - Model ordinance for hydronic heaters
    - Wood stove/fireplace change-outs
Current Initiatives

• Climate Strategies & Economic Opportunities
  – Joint initiative with various state agencies including MPCA, Commerce, EQB, Health, DEED, etc. with involvement from CCS and stakeholders
  – Goal is to analyze policy strategies to help meeting GHG reduction goals including:
    • Potential to reduce GHG
    • Projected societal costs and savings
    • Projected indirect effects on economy
Current Initiatives

- **Climate Strategies & Economic Opportunities: Policy options considered**
  - **Energy Supply**
    - Increase RES to 40% or 50%
    - Retire/Repower coal plants
  - **Demand Side Efficiency**
    - Expand EERS to 2 or 2.5%
    - Add a CHP standard (800 MW – NG and Biomass)
    - Expand SB2030 (NZE Ready)/Stretch Codes
  - **Agriculture**
    - Nutrient management
    - Soil carbon management
    - Advanced Biofuel production
  - **Forestry Management**
    - Forest thinning for biomass production
    - Community forests/tree planting
    - Private land conservation
  - **Land Use and Transport**
    - Transportation pricing
    - EV and ZEV standards
  - **Waste and Water**
    - EE in WWT
    - Front-End Waste management
Thank you!

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