

# **Association of New Jersey Environmental Commissions Towns Saving Green by Being Green**

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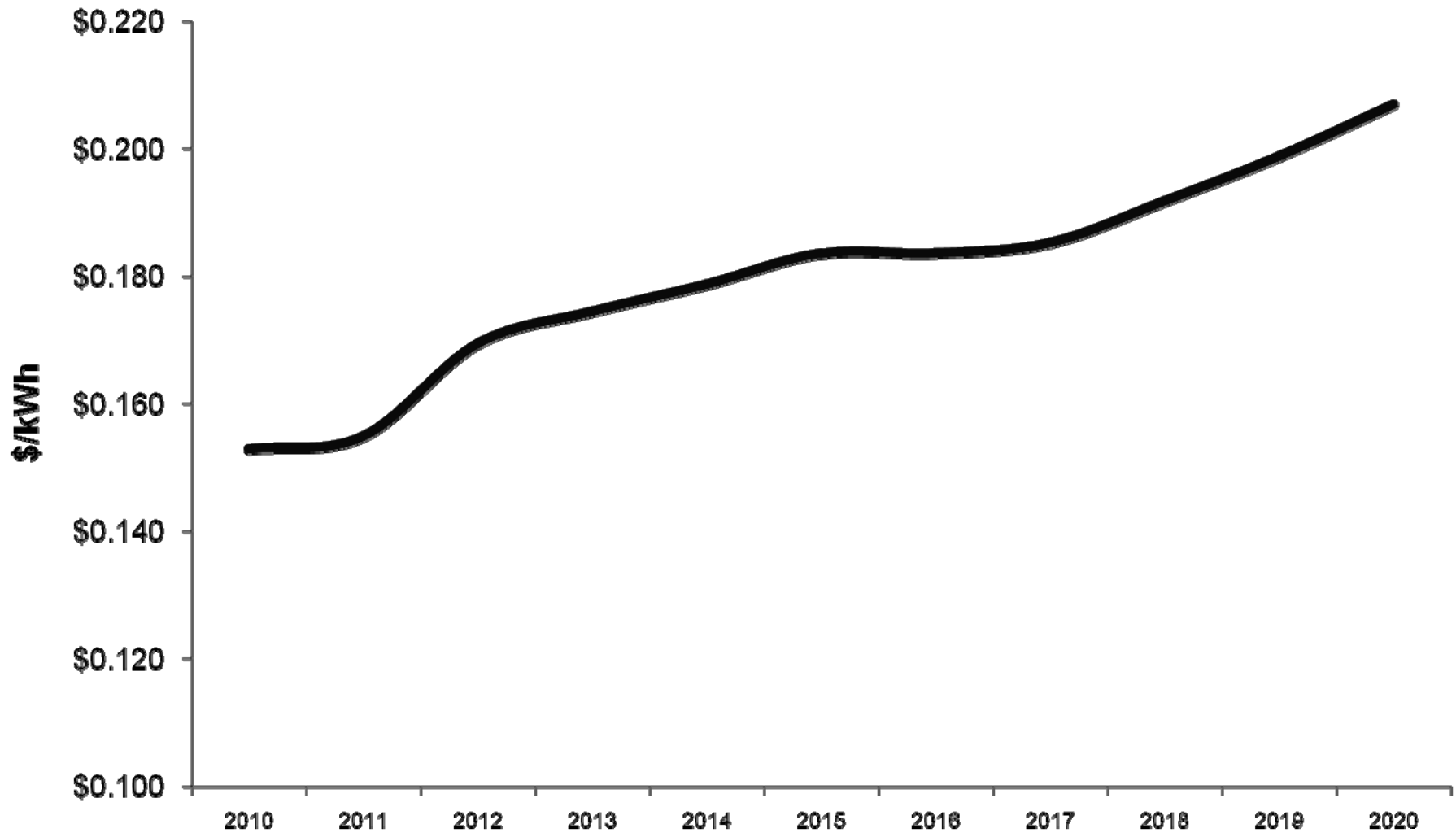


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# 5 Key Development Issues

- National greenhouse gas strategy/cap and trade: enhanced value for energy efficiency and renewable energy
- Plug in federal stimulus and other federal incentives
- Substantial expansion of energy efficiency, CHP & Renewables: OCE, EDA, DEP and utilities
- Focus on stability of incentives and sources of capital
- Use competition to control costs and assure performance

# Electric Retail Price Forecast



# Federal Cap and Trade

- Regional Greenhouse Gas Initiative (RGGI) is just the beginning
- Allowance cost and offset value increased
- Higher electric rates

# Federal Stimulus

- Tax credits
- Treasury grant
- Accelerated depreciation
- Other programs

# Maximize Energy Efficiency and Renewable Incentives

- Municipal Energy Audit Program
- NJ Smart Start Building Program
- Curtailment capacity value/Demand Response Programs
- Pay for Performance
- RECs and SRECs
- Utility Programs
- CHP grants
- EDA loans
- Carbon value/offsets
- Energy Value

# Possible Measures From the Audit and Planning Process

- Lighting and Lighting Controls
- Motors and Pumps
- Variable Frequency Drives (VFDs)
- Energy Management Systems
- HVAC
- Combined Heat & Power (CHP)/Cogeneration
- Peak Shaving/Demand Response
- Boiler Upgrades
- Geothermal Systems
- Fuel Cell/Microturbines/Solar Wind
- Building Envelope (windows, roofs)
- Water Conservation (i.e. waterless urinals, low flow fixtures, etc.)
- Transformer Technologies (power factor)
- Solar Systems
- Other renewables

# Implementation Plan

- Assessment/Feasibility/Audit
- Master Plan
- Plan of Finance and Structure
  - Self own vs. vendor own (sources of capital available to public entities), PPA, hybrids and other structures
  - Sources of capital
    - Vendor
    - User
    - County-State-Federal
- Plan of Procurement
  - Public entities: competitive or performance contracting vs. lowest qualified bid

# Implementation Plan (cont'd)

- Project Management and Commissioning
- Measurement and verification (often a requirement)