Managing the Grid

• Moderator:
  • Nancy Seidman, Senior Advisor, Regulatory Assistance Project

• Speakers:
  • Lang Reynolds, Manager of Electric Transportation, Duke Energy
  • Joyce McLaren, Senior Energy Analyst, Alternative Fuels and Advanced Vehicle Technologies, National Renewable Energy Laboratory
  • John Halliwell, Technical Executive, Energy Utilization, Electric Power Research Institute
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Lang Reynolds, Manager of Electric Transportation, Duke Energy
Benefits of Transportation Electrification

The future is electric.
Benefits of Electric Transportation

- EV adoption can provide economic and electric system benefits for all customers.

**NPV Cumulative Net Benefits from Plug-in Vehicles in North Carolina**

- Managed Charging

<table>
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<th>Year</th>
<th>PEV Owner Savings</th>
<th>Utility Customer Savings</th>
<th>Total</th>
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<td>$70.00</td>
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Increasing adoption increases potential benefits

Electric System Benefits

- System benefits may result from net revenue in excess of the cost to serve.

Electric System Benefits

- System benefits are increased by managed charging:

Managing the Grid

Joyce McLaren, Senior Energy Analyst, Alternative Fuels and Advanced Vehicle Technologies, National Renewable Energy Laboratory
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John Halliwell, Technical Executive, Energy Utilization, Electric Power Research Institute