NYSERDA’s RPS Customer Sited Tier Fuel Cell Program
NYSERDA Programs to Support Fuel Cells

• Power Systems Research, Technology and Product Development Program
  – Experimental Fuel Cell Systems
    • Lab Scale
    • Early Stage Prototypes

• Manufacturing Technology Development and On-Site Power Applications Program
  – Early Stage Commercially Available Systems
  – Certified Fuel Cells
NYSERDA Programs to Install Fuel Cells

- Increase Customer Awareness
  - Distributed Generation as Combined Heat and Power
    - Risk Sharing
    - Early Stage Commercially Available Systems
  - Renewable Portfolio Standard (RPS) Customer Sited Tier (CST) Fuel Cell Program
    - Resource Acquisition
    - Certified Fuel Cell Systems
Rationale for Including Fuel Cells in NY State RPS Customer Sited Tier (CST) Program

• Efficient Means of Electric Generation (~40-50%)
• Very Low Emissions
• Continuous and Dispatchable Power
• Can be Sited in Sizeable Quantities in Load Pocket Areas
• Provides Some Geographic Balance
New York’s RPS CST Fuel Cell Program

- PON 2157 available at www.nyserda.org

- Program Details
  - $21.6 Million through 2015
  - Programs for Large and Small Continuous Duty Fuel Cells
    - 25 kW or less is considered a small fuel cell
  - ANSI Certified Fuel Cell Systems
    - Appendix E: List of Eligible Fuel Cell Systems
    - Appendix F: Request to Added to the List of Eligible Systems
  - Commercial Warranty (3 Year Minimum)
  - Sites Must Pay the RPS Surcharge
  - Continuous Enrollment
CST Large Fuel Cell Program

• $1 Million Funding Cap for Systems Larger than 25kW

• Capacity Incentives
  – $1,000 per kW
  – Up to $200,000 per Project Site

• Bonus Capacity Incentive for Sites of Essential Public Service
  – $500 per kW
  – Up to $100,000 per Project Site

• Performance Incentives (3 Annual Payments)
  – Annual Capacity Factor Must be Greater than or Equal to 50%
  – $0.15 per net kWh
  – Up to $300,000 per Year per Project Site
NYSERDA Fuel Cell Program
Essential Public Services

• Emergency Services
  • Fire
  • Police
  • Ambulance/Emergency Medical Services

• Health Care Services
  • Hospitals

• Communication Services

• Food Distribution/Retail

• Fuel Distribution/Retail
CST Small Fuel Cell Program

- $50K Funding Cap for Systems 25kW or Less
- Performance Incentives Only (3 Annual Payments)
  - Annual Capacity Factor Must be Greater than or Equal to 50%
  - $0.15 per net kWh
  - Up to $20,000 per Year per Project Site
RPS CST Regional Program

- PON 2156
- $150 Million Available thru 2015
- Renewable Biogas Fueled Systems
  - Includes, but is not Limited to Fuel Cells
  - Pipeline Directed
  - Locally Sourced
- NYISO Zones G, H, I and J (Hudson Valley and NYC region)
- Contact Paul Vainauskas (518) 862-1090 ext. 3554