



CONNECTICUT
CLEAN ENERGY FUND

Present Fuel Cell Clean Energy Program & New Opportunities under ARRA Federal Stimulus Funding

Fuel Cells for Municipalities Workshop 2009

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Project Development Manager
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Connecticut Clean Energy Fund



- Created by CT General Assembly in 1998, launched in 2000
- Funded by a surcharge on electric utility bills (~ 70 cents per household)
- Mission: CCEF promotes, develops and invests in clean energy sources for the benefit of Connecticut ratepayers
- Vision: Connecticut will lead the nation in achieving a sustainable balance of energy production, economic growth and environmental impact

CCEF Funding Sources



- Historical funding from surcharge on UI and CL&P electric bill - ~\$30M/year
- Some additional funding from sale of Renewable Energy Credits (RECs) and foundation grants
- **New:** Regional Greenhouse Gas Initiative (RGGI) –
 - ~\$3M/first 3 quarterly auctions
 - May be used for Class I Renewables only
- **New:** American Recovery and Reinvestment Act (ARRA) –
 - \$20M in total
 - May be used statewide (i.e., not just UI and CL&P)
 - May be used for different renewable technologies

ARRA Breakdown for CCEF



- **\$8M – Fuel Cells - existing program**
- **\$3M – Solar PV – to be divided among existing commercial & residential programs**
 - Backlog of commercial applications will likely exhaust funding
- **\$4M – Solar Thermal – new program to be developed for commercial & residential customers**
 - Likely to be launched in September-October
- **\$5M – Geothermal Ground Source Heat Pumps – new program to be developed for commercial & residential customers**
 - Likely to be launched in October-November

OSDG Fuel Cell Program



- **Program funding** → ~ \$12M
- **Grants up to \$4M per project**
- **Projects up to 2,000 kilowatts**
 - Incentive cap = \$2.50 per Watt
 - Incentive limited to site's annual usage
- **Customer must be in either UI or CL&P territory**
- **Pays approx. 25-50% of total system cost**
- **Benefits:**
 - Stabilize a portion of electric bill
 - Reduce greenhouse gas emissions
 - Can provide emergency power and heat
- **Limitations:**
 - Site must have a minimum 300 kW base load
 - Site must be able to use at least 50% of "waste" heat
 - Must have access to natural gas service



Yale – Peabody Museum



Fairfield - WPCA

Federal Tax Incentives



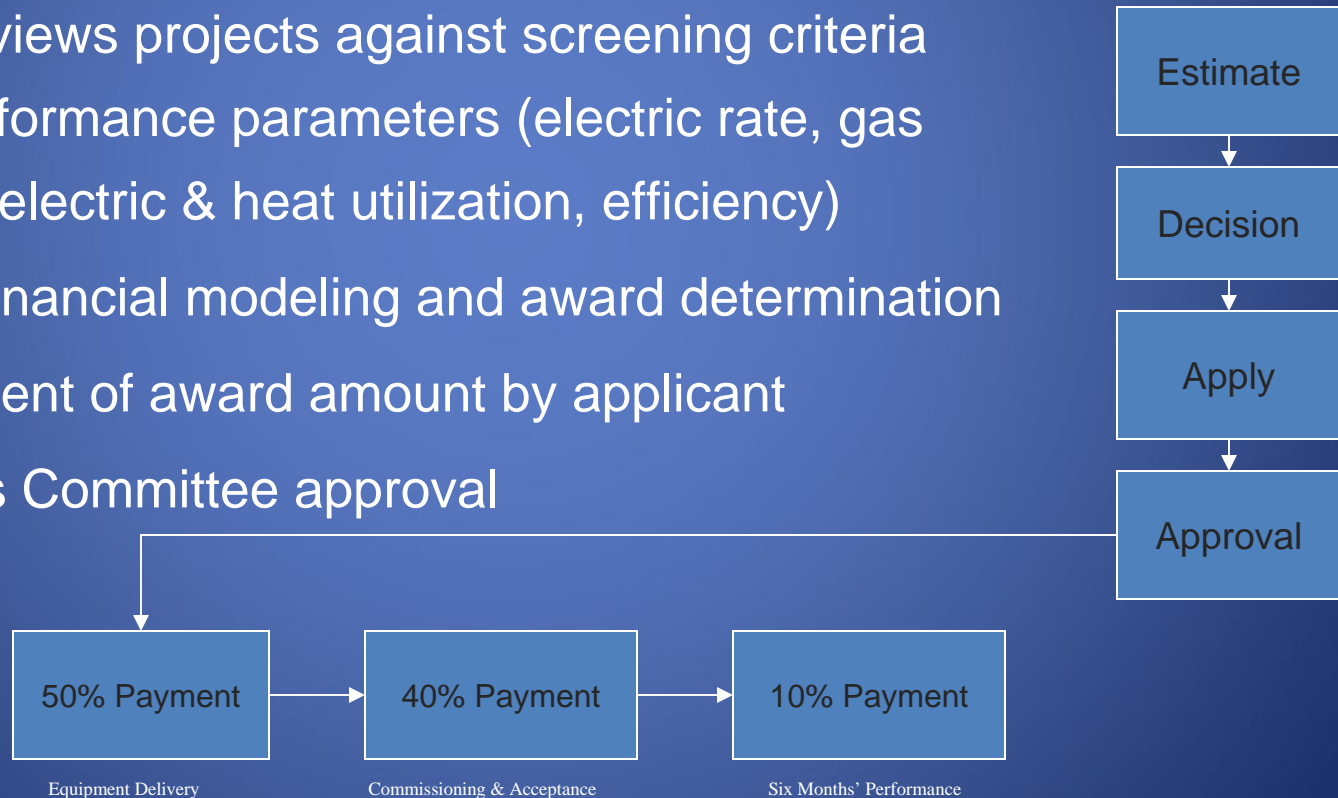
- **30% Investment Tax Credit**
 - CT recognizes fuel cells as a class I renewable technology
 - Credit available through 2016
- **50% Bonus Depreciation**
 - 50% adjusted basis of property in 2008 & 2009
 - Remaining 50% using ordinary depreciation schedule

On-Site Renewable Distributed Generation Program



THE PROCESS

- Applications accepted on rolling basis
- Staff reviews projects against screening criteria and performance parameters (electric rate, gas rate, % electric & heat utilization, efficiency)
- CCEF financial modeling and award determination
- Agreement of award amount by applicant
- Projects Committee approval



The Application



- Available on-line (MS Word)
- Schedule discussion with CCEF staff pre-application
- Required Information :
 - System owner
 - Site description
 - Renewable system details (technical, financial)
 - Team experience
- Additional documentation:
 - Utility Bills
 - Financial Information
 - Site Plans
 - Site Energy Efficiency Measures

On-site Renewable DG Program

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On-site Renewable Energy Generation Projects

APPLICATION FORM

Program Opportunity # CCEF-OSDG-001
Version 2 (Rev. 7/1/08)

ON-SITE RENEWABLE DG PROGRAM
FOR COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL USERS

Applicants should review the Application Instructions, located on CCEF's Web site, carefully before completing the Application Form. CCEF strongly encourages all Applicants to schedule pre-application discussions with the CCEF staff before submitting Applications under this program.

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Commercial Program Contacts



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