

Energy Efficiency Conservation Block Grant Update



State of Tennessee
Department of Economic and Community Development
Energy Division



EECBG

Program Basics

- Total ARRA funding = \$13,818,200
- Total for Grants to local governments = \$13,433,842
- 133 grants in Rounds 1 and 2 = \$12,317,503.34
- 12+ Round 3 grantees identified = \$1,044,564.00
- Period of Performance = 09/21/09 - 09/20/2012
- Liquidation Date = 12/19/2012



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Rounds 1, 2, and 3

- 111 grants awarded to cities
- 34 grants awarded to counties
- Grants awarded to communities in 66 of TN's 95 counties



EECBG Projects

Building Retrofits

- 239 buildings total
- 84 lighting projects
- 44 window projects
- 36 insulation projects





EECBG Projects

Building Retrofits

- 82 HVAC projects
- 19 pumps and motors projects





EECBG Projects

Transportation

- 34 projects total
- Rounds 1 and 2:
 - 2762 traffic signals
 - 753 street lights
 - 50 outdoor lights





EECBG Projects

Renewable Energy

- Rounds 1 and 2:
 - 3 solar PV projects
 - 49 kW installed nameplate generating capacity





EECBG Projects

Renewable Energy

- Round 3
 - 1 solar PV project
 - 1 geothermal project





EECBG Benefits

Annual Projected Savings

- Energy Savings: 92 million kWh
- Dollar Savings: \$8 million
- GHG Reduced: 83,678 metric tons CO₂



EECBG Benefits

Job Creation

Q1 2011 Hours Worked: 11,234.39
Total ARRA FTE: 21.76

Q2 2011 Hours Worked: 22,087.47
Total ARRA FTE: 41.12

Q3 2011 Hours Worked: 15,806.41
Total ARRA FTE: 30.45

Q4 2011 Hours Worked: 5,747.81
Total ARRA FTE: 11.06



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Sample Success Stories

- East Ridge: most energy cost savings; \$46,000 est. annually
- Shelbyville: most lighting; installed 1,870 energy efficient bulbs; 119 LED traffic signals; 38 LED street signs



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Sample Success Stories

- Lakesite: 6 HVACs, 2 tankless water heaters, 3 refrigerators, 1 range, 3 microwaves, 1 dishwasher, 1300 sq. ft. insulation, over 85 lights and fixtures
- Est. annual savings of 177,539 kWh and \$10,000.00



EECBG Case Study

City of Sunbright

- \$100,000 award
- \$90,000 toward renewables
- Funded purchase and installation of 2 solar PV arrays





EECBG Case Study

City of Sunbright

- Estimated 20,394 kWh generated per year





EECBG Case Study

City of Sunbright

- \$4,486.68 per year from sale of electricity generated
- System will completely offset all electric utilities for City Hall, Police Station, and Library



SOLAR SOLUTIONS

2011 conference

Next Tennessee Valley Solar Solutions Conference

April 10 & 11, 2012

Memphis, TN

www.tnsolarsolutions.org

