

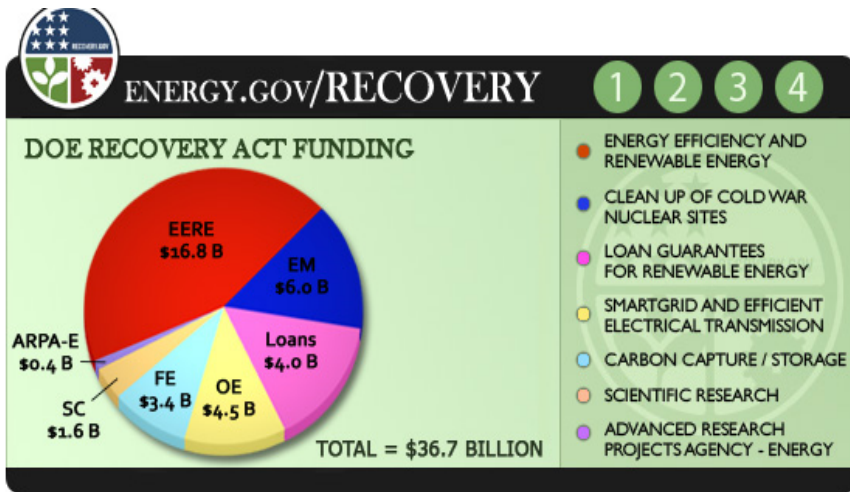
Fort Lauderdale Sustainability Action Plan



In collaboration with:



Scope of Work



- Fort Lauderdale: \$2 million for Energy Efficiency and Conservation

CSA's Work:

GREENHOUSE GAS INVENTORY

ENERGY EFFICIENCY AND CONSERVATION PROGRAMS/PROJECTS

SUSTAINABILITY ACTION PLAN

Greenest Cities in the U.S.

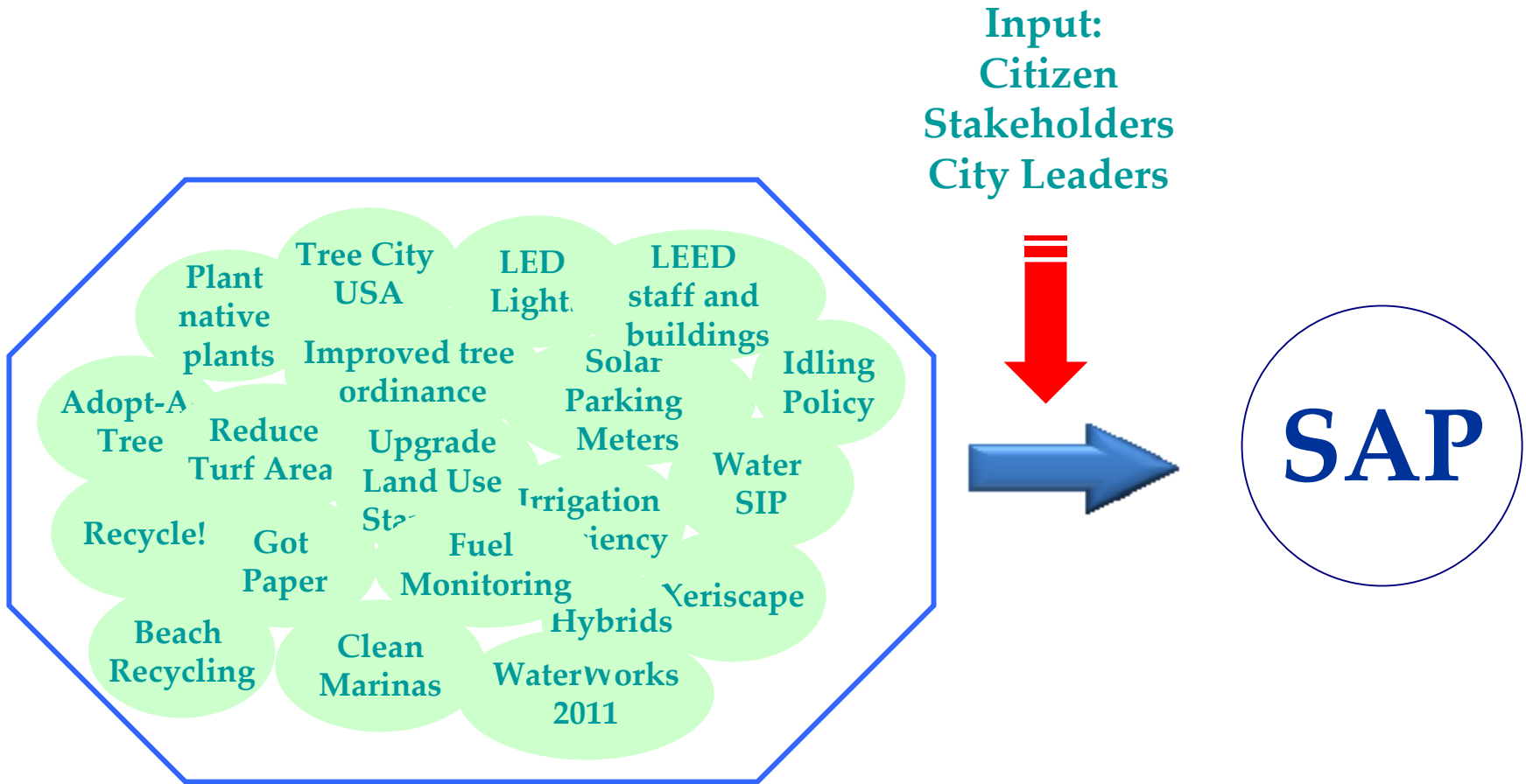
CNN/MSN:

1. Seattle, WA
2. San Francisco, CA
3. Portland, OR
4. Philadelphia, PA
5. New York, NY
6. Minneapolis, MN
7. Chicago, IL
8. Boston, MA
9. Berkeley, CA
10. Austin, TX

Fort Lauderdale Existing Initiatives:

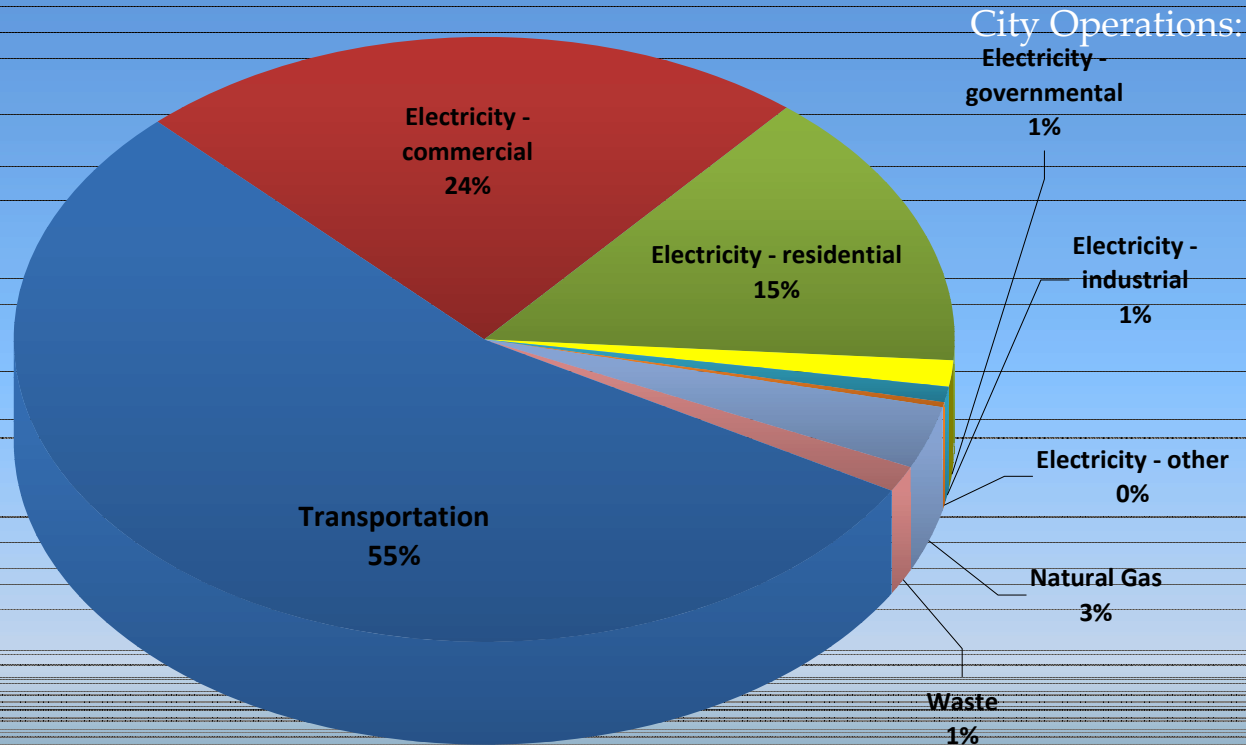


Fort Lauderdale's Sustainability Action Plan (SAP)



Findings of Greenhouse Gas Inventory

2008 Community Greenhouse Gas Emissions by Source [MTCO₂e]



Emissions:
Total Community -
4.2 million tons

Total City -
88,160 tons

24 tons per capita
Baseline year: 2008

Energy Efficiency and Conservation Block Grant

Eligible Projects:

- Energy efficiency
- Energy conservation
- Renewable energy on government buildings
- Transportation programs

DOE Requirements:

“Unprecedented Accountability”

“Transparency”

“Regular Progress Reports”

JOBS
CREATED/RETAINED

ENERGY SAVINGS

GHG REDUCTIONS

LEVERAGED
FUNDS

LONG TERM
IMPACT

EECBG Project Options

Fort Lauderdale Allocation: \$2,034,400

Main focus:

Energy Efficiency and Conservation

Balance:

Good ROI

Partnerships

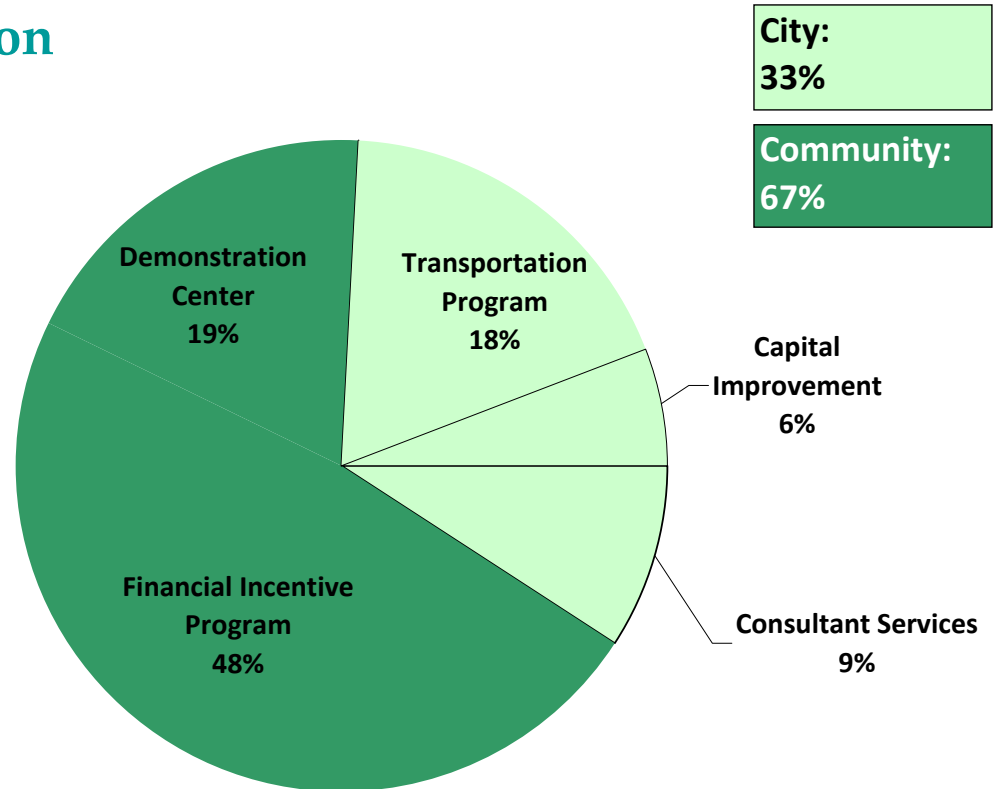
Leveraged Funds

Significant Reach of Population

Community Benefits

Save Taxpayer Money

Change Behavior



EECBG Project Options - Details

ENERGY STRATEGY - \$75,000

JOBS: 1 FTE

ENERGY BASELINE

GHG INVENTORY

LEVERAGED FUNDS:
TBD

LONG TERM
IMPACT:
SAP DRAFT



Activities: *Technical consulting for Energy Strategy*

Deliverables:

Greenhouse gas inventory

Energy Efficiency and Conservation Strategy

Sustainability Action Plan

EECBG Project Options - Details

SMART WATTS PROGRAM - \$980,000

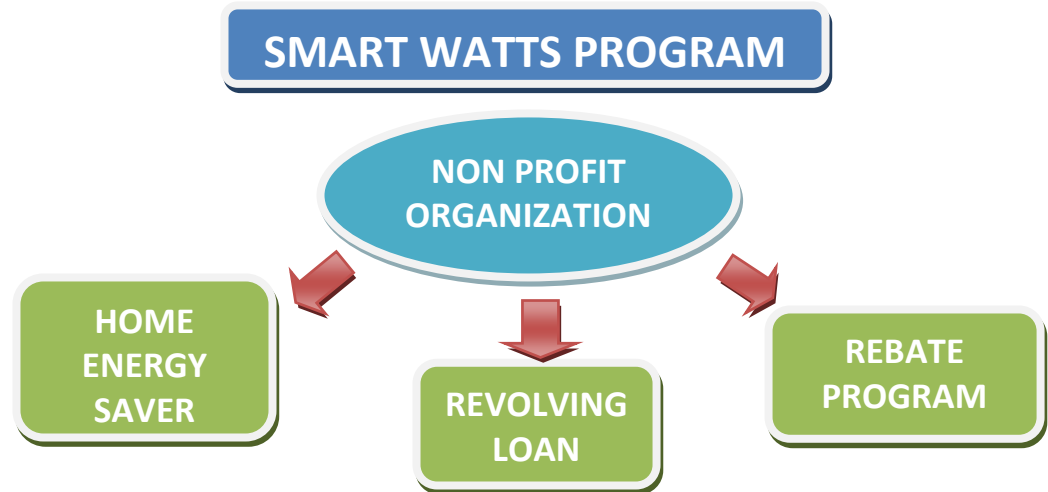
JOBS: 18 FTE

ENERGY SAVINGS:
\$565,000 / year

GHG REDUCTIONS:
3,460 TONS / year

LEVERAGED FUNDS:
\$700,000

LONG TERM
IMPACT:
BEYOND EECBG



DETAILS:

- Direct financial assistance and loan program
- Creates financial incentives to improve building energy efficiency.
- Aimed at residents and commercial businesses
- May be administered through non-profit that will also be more likely to receive extra funds

EECBG Project Options - Details

SUB-PROGRAM 'HOME ENERGY SAVERS' - \$260,000

JOBS: 5 FTE

ENERGY SAVINGS:
\$230,000 / year

GHG REDUCTIONS:
1,400 TONS / year

LEVERAGED FUNDS:
\$285,000

LONG TERM
IMPACT:
BEYOND EECBG

SMART WATTS PROGRAM



HOME
ENERGY
SAVER

DETAILS:

- 2,000 residents will receive \$100 voucher from local home improvement retailer
- Eligible purchases include: energy efficient supplies (light bulbs, low flow faucets etc.)
- Mandatory participation in 2 hour workshop
- Electricity savings will be tracked online and awards for Energy Savers who signed up online

CAR 09-1660
Exhibit 4

EECBG Project Options - Details

SUB-PROGRAM 'REVOLVING LOAN' - \$410,000

JOBS: 7 FTE

ENERGY SAVINGS:
\$185,000 / year

GHG REDUCTIONS:
1,160 TONS / year

LEVERAGED FUNDS:
\$115,000

LONG TERM
IMPACT:
BEYOND EECBG

SMART WATTS PROGRAM



REVOLVING
LOAN FUND

DETAILS:

- \$5,000 maximum loan for appliance upgrades, e.g. refrigerator, hot water heaters.
- Requires energy audit, e.g. free FPL audit
- Loan should be combined with existing rebate programs
- Recycling provision for old appliances
- Local vendors/contractors only

EECBG Project Options - Details

SUB-PROGRAM 'REBATES' - \$310,000

JOBS: 6 FTE

ENERGY SAVINGS:
\$150,000 / year

GHG REDUCTIONS:
900 TONS / year

LEVERAGED FUNDS:
\$300,000

LONG TERM
IMPACT:
BEYOND EECBG

SMART WATTS PROGRAM



REBATE
PROGRAM

DETAILS:

- Matching existing rebates large equipment, e.g. \$150 for A/C to be matched with FPL rebate
- 400 residents can participate at max. rebate
- Example: A/C units – increase efficiency at minimum of 14 SEER
- Local vendors/contractors only

EECBG Project Options - Details

DEMONSTRATION CENTER - \$380,000

JOBS: 5 FTE

ENERGY SAVINGS:
\$23,000 / year

GHG REDUCTIONS:
140 TONS / year

LEVERAGED FUNDS:
\$50,000

LONG TERM
IMPACT: Reach 30
visitors per day



DETAILS:

- Showcase solar technology
- Existing facility
- Explain energy efficiency by highlighting retrofits
- Educate public about:
 - Energy saving measures
 - Renewable energy
 - Green buildings
 - Transportation

EECBG Project Options - Details

TRANSPORTATION PROGRAM - \$370,000

JOBS: 4 FTE

ENERGY SAVINGS:
\$25,000 / year

GHG REDUCTION:
TBD

LEVERAGED FUNDS:
TBD

LONG TERM
IMPACT:
BEYOND EECBG



DETAILS:

- Fund the price difference between a business as usual (BAU) vehicle purchase and a fuel efficient vehicle.
- GPS fleet – expand existing pilot program.
- Research study to determine most beneficial approach on which vehicles to target.

EECBG Project Options - Details

CAPITAL IMPROVEMENT PROJECTS - \$120,000

JOBS: 1 FTE

ENERGY SAVINGS:
\$100,000 / YEAR

GHG REDUCTIONS:
600 TON / YEAR

LEVERAGED FUNDS:
NONE

LONG TERM
IMPACT:
BEYOND EECBG



DETAILS:

WATER PUMPS (\$100,000)

- Replace existing technology with more efficient technology in the water distribution process.
- Replace technology on 29 of the City's more than 600 motors.



NIGHTWATCH MAN PROGRAM (\$20,000)

- Automatic shutoff of PCs at night and other monitoring benefits.

EECBG Project Options - Details

ENERGY MANAGER - \$110,000

JOBS: 1 FTE

ENERGY SAVINGS:
\$530,000 / YEAR

GHG REDUCTIONS:
3,000 TON

LEVERAGED FUNDS:
TBD

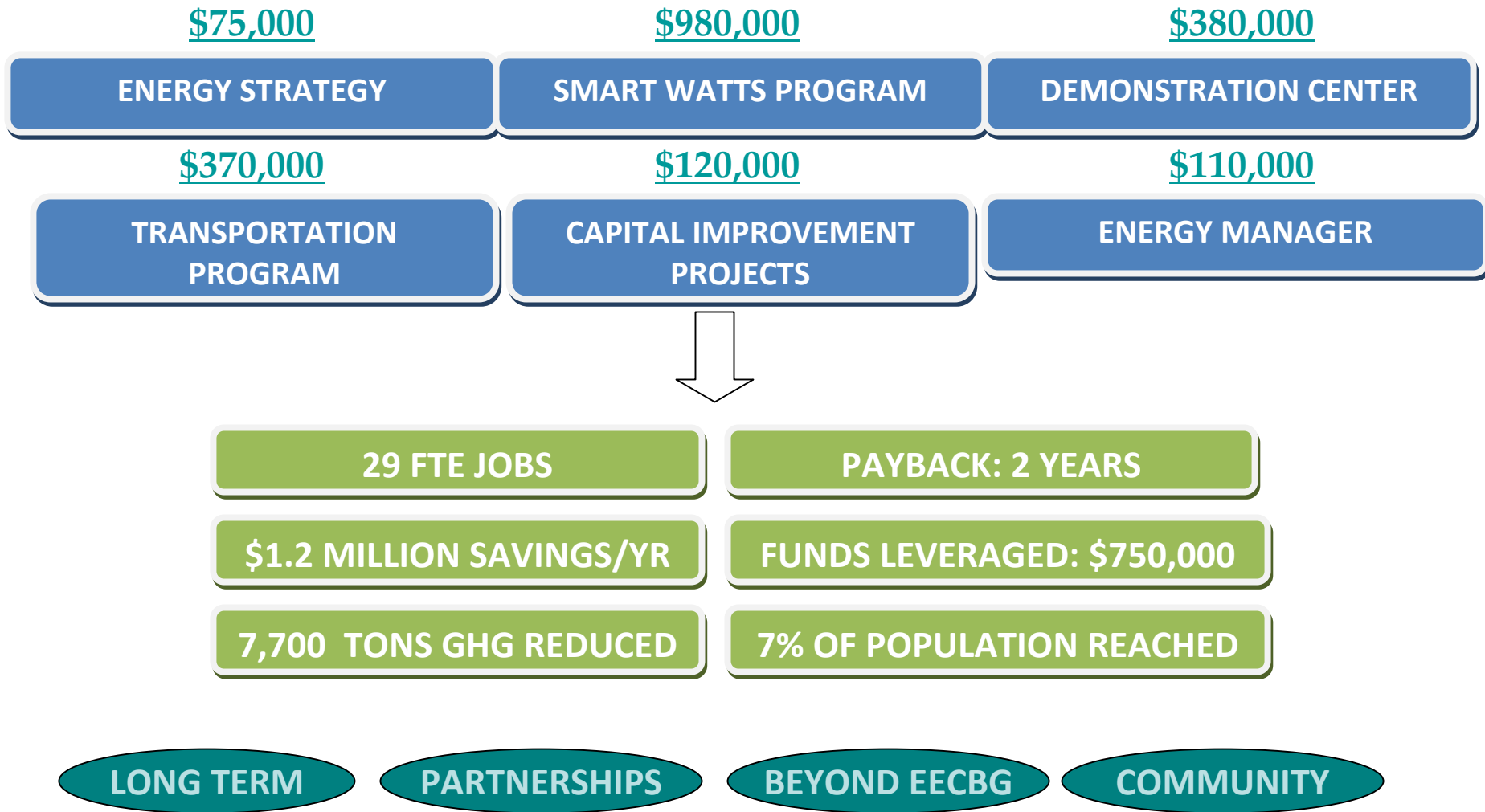
LONG TERM
IMPACT:
BEYOND EECBG



DETAILS:

- Tasks: 1-5% energy savings after 12 months
- Create external partnerships
- Provide oversight, leadership, and accountability in areas of program implementation, monitoring, funding, and public outreach

EECBG Project Options - Benefits



Questions?



In collaboration with:

