Innovations in Energy Policy and EECBG-Funded Programs in Florida Cities

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Overview of Three Projects

• Planning Energy Sustainability Survey of Florida Cities
  – Supported by FESC/FSU/IESES
  – Investigates the adoption of Energy Climate Plans and the link between plans and activities

• EECBG Implementation: How do Florida Cities Measure Up in a National Survey?
  – Supported by NSF
  – National Study of the implementation of EECBG grants

• Can the EECBG Program Stimulate Lasting Change?
  – Supported by NSF
  – Investigation of how EECBG influences future energy and sustainability efforts
## Planning Energy Sustainability in Florida Cities

<table>
<thead>
<tr>
<th>Policies</th>
<th>Cities with climate action plan or energy plan</th>
<th>Cities without any climate action plan or energy plan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Encourage</td>
<td>Require</td>
</tr>
<tr>
<td>Reduce greenhouse gas emissions</td>
<td>59.1%</td>
<td>0%</td>
</tr>
<tr>
<td>Compact developments in new and existing neighborhoods</td>
<td>62.5%</td>
<td>20.8%</td>
</tr>
<tr>
<td>Mixed-use development</td>
<td>87.5%</td>
<td>12.5%</td>
</tr>
<tr>
<td>Transit oriented development</td>
<td>69.6%</td>
<td>8.7%</td>
</tr>
<tr>
<td>In-fill development</td>
<td>91.7%</td>
<td>4.2%</td>
</tr>
<tr>
<td>Community-wide bicycle/pedestrian plan</td>
<td>54.2%</td>
<td>16.7%</td>
</tr>
<tr>
<td>Street design for multi-modal mobility in developments</td>
<td>50.0%</td>
<td>20.8%</td>
</tr>
<tr>
<td>LEED or other Green development certification for new development or redevelopment projects</td>
<td>65.2%</td>
<td>8.7%</td>
</tr>
</tbody>
</table>
# Council Manager Governments Emphasize Governmental Operations

<table>
<thead>
<tr>
<th>Form of Municipal Government</th>
<th>Cities enacting policies or regulation for energy/climate issues</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Government Operations</td>
</tr>
<tr>
<td>Mayor-Council Government</td>
<td>64.2%</td>
</tr>
<tr>
<td>Council-Manager Government</td>
<td>67.6%</td>
</tr>
</tbody>
</table>
EECBG Implementation: How do Florida Cities Measure Up?

1. Prioritizing Energy Efficiency and Sustainability: Influencing EECBG project choices

2. Using EECBG Funds: Types of projects in Florida

3. Impacts and Expectations: EECBG-funded projects after the money runs out

4. Future Research: EECBG-funded projects and policy and management change at the local level
Prioritizing: Factors Influencing EECBG Choices

Factors:
- Number of Jobs Created
- Intergovernmental collaboration
- Ongoing Energy Activities
- Greenhouse Gas Reduction
- Private firm suggestions
- Potential energy cost savings
- Availability of contractors
- Potential for innovation
- Ability to quickly spend grant

Percentages of City Respondents

<table>
<thead>
<tr>
<th>Factor</th>
<th>FL Cities</th>
<th>Cities outside FL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Jobs Created</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Intergovernmental collaboration</td>
<td></td>
<td></td>
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<td>Ongoing Energy Activities</td>
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<td>Greenhouse Gas Reduction</td>
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<td>Private firm suggestions</td>
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Factors Influencing EECBG Choices: Some Core Differences

• The high priority of economic factors like job creation and faster spending may suggest that grant funds are being used to stimulate economic growth more in cities in Florida than cities in other states.

• The high priority of potential innovation suggests that Florida cities may be more interested in long-term energy projects than cities in other states.

• Florida cities low prioritization of collaboration with firms and other governments may result in slower capacity building and policy implementation than cities in other states.
Funding New Project Activities

- Efficiency/Conservation Strategies
- Energy audits/retrofits
- Financial Incentives
- Transportation
- Building Code Development/Inspection
- Installing new energy technology
- Material conservation
- Waste-related greenhouse gas reduction
- Energy efficient traffic and street lights
- Renewable energy near government...

Percentages of City Respondents

FL Cities
Cities outside FL
Funding Ongoing Project Activities

Percentage of City Respondents

- FL Cities
- Cities outside FL

- Efficiency/Conservation Strategies
- Energy audits/retrofits
- Financial Incentives
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- Building Code...
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- Waste-related greenhouse gas...
- Energy efficient traffic and street...
- Renewable energy around...

Graph showing funding distribution for various project activities with bars for FL Cities and Cities outside FL.
New and Ongoing Project Activities: Some Core Differences

• Even before the EECBG Program, Florida cities were already engaged in more energy/sustainability activities than cities in other states.

• Florida cities are using EECBG funds to have more well-rounded energy policies: Using funds for policy types where they did not have ongoing activities.

• Focus on the development of efficiency/conservation strategies
Long Term Expectations for EECBG-Funded Projects

- Termination
- Self-funded by energy savings/revenue
- Funded by local revenue

Percentage of City Respondents

FL Cities
Cities outside FL
New Project:
Can the EECBG Program Stimulate Lasting Change?

• A key goal of the EECBG Program has been to create lasting changes in local sustainability practices.

• To what extent and by what processes has DOE shifted the priorities and actions of local governments

• How durable are these changes?

• What explains differences among cities in continuance of EECBG activities?
Research Agenda

- Design of Intergovernmental Programs
  - Implementation and delay
  - Incentives to continue action beyond one time grants

- Local management practices
  - Design of Intergovernmental Programs
  - Implementation

- Energy and policy practices
  - Impacts on innovation and collaboration