The Small Town Carbon Calculator (STOCC)

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Background of STOCC

- Growing need for an easy way to track energy use
- Small towns vs. large cities
- Combined pressure to reduce costs and greenhouse gas emissions
Rising Electricity Costs

Annual Electricity Residential Price: New England

Source: Energy Information Administration
Rising Oil Costs

Annual Heating Oil Residential Price ex Taxes: Northeast

Source: Energy Information Administration
Rising CO2 Emissions

Source: Environmental Protection Agency
The Purpose of STOCC

- SIMPLE energy inventory tool (Excel spreadsheet)
- Decision relevant information
  - Energy cost
  - Carbon dioxide emissions
  - Energy use
- Represents a key step towards improving a town’s energy efficiency
  - Inventory
  - Audit
  - Renovate
  - Inventory…
Developing STOCC

- Centered around the needs of small towns
- Determined 3 major sectors of energy use
  - Buildings & facilities
  - Vehicles
  - Streetlights
- Fuel types associated with these sectors
- Carbon dioxide emission coefficients
- BTU values
Using STOCC

- Data collection
- 3 input categories
  - Buildings & Facilities
  - Vehicles
  - Streetlights
- 3 pieces of information
  - WHAT type of fuel
  - HOW MUCH fuel
  - COST per year
Using STOCC

- Example
The Future of STOCC

- Application phase
- Use by Local Energy Committees
- Provides concrete information to include in climate action plans and energy reports
- Towns already in the process
Thank You

- Cameron Wake
- SIP Advisors
- Clean Air-Cool Planet