City of Bloomington Sustainability Action Plan
Name of Working Group
Meeting 3

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10 April 2018
Current Situation in Bloomington

- **Renewable Energy**
  - Indiana generates approximately 85% of electricity from coal
  - Bloomington’s renewable energy supply is 0.3% (STAR Communities) (6% from GHGI)
  - Positive public support for solar initiatives
    - Rising demand for community and residential solar initiatives
  - Solarize Bloomington Project
    - More requests in 2017 than contractors could install (via SIREN)
    - SIREN (Solar Indiana Renewable Energy Network)
      - Outreach and education
      - Grant-writing assistance
      - Site assessments for solar potential
Current Situation in Bloomington

- Green Buildings
  - Green Buildings Incentives Program
    - Open House feedback: no data tracking usage and little to no incentives given out
  - No catalogue of green buildings exists currently
  - Some information on greenspace percentage
    - Increased for the first time in 2011 by 7 acres
  - Green Building Ordinance exists but lacks clarity
Community Goals found in Bloomington Documents

- Renewable Energy
  - Integrate renewable energy into new and existing city facilities (BCP)
  - Incentivize renewable energy sources (BCP)
  - Broad objective to create a renewable energy portfolio (BEAP)
    - No specific goals/ percentages set
  - Create/ clarify green building ordinances (BEAP)
- Green Buildings
  - Implement rain gardens (BCP)
  - Reduce impervious surface areas (BCP)
  - Make green spaces a standard element of redevelopment (BCP)
  - Reach 40% canopy cover by 2020 (BEAP)
  - Adopt one green infrastructure technique in each city building (BEAP)
  - Adopt a city-wide green infrastructure policy (BEAP)
  - Promote permeable/ high albedo pavement (BEAP)
Metrics Recommended in ISO 37120 and STAR

- Renewable Energy
  - STAR flexible Indicator #8: Portion of a city’s electricity supply coming from renewable energy
    - Can include renewable energy credits if Green-e certified
    - Generating capacity of renewable sources/ total generating capacity of electric plants
  - ISO core indicator standard 7.4: percent of total energy consumption in a city derived from renewable sources

- Green Buildings
  - STAR flexible Indicator #21: climate adaptation benefits of green infrastructure beginning at 35% green infrastructure
  - ISO core indicator Standard 19.1: green area of a city
    - Total green area divided by 1/100,000 of the city’s total population
    - Number of trees per 100,000 population
Metrics Found in Bloomington Documents

- **Renewable Energy**
  - STAR: percent of generating capacity that is renewable
    - 0.3% (STAR Communities) OR (6% from GHGI)
  - Leading indicators:
    - Installed solar for 100 homeowners generating 1MW (via Solarize Bloomington)
    - Doubled the amount of solar in Bloomington

- **Green Buildings**
  - Percent of green infrastructure (not reported)
  - City-level LEED member
    - 2015 data 1 building LEED certified
    - Various more IU buildings LEED certified
  - Greenspace acreage increased by 7 acres in 2011
    - Poor reporting in recent years
Renewable Energy & Green Buildings

Metrics Used in Other Cities

- Renewable Energy
  - STAR: percentage of green energy supply
    - Iowa City, Iowa: 47%
    - Columbia, Missouri: 7.2%
    - Lawrence, Kansas: 14.3%
    - Ann Arbor, Michigan: 4.8%

- Green Buildings
  - STAR: Iowa City, Iowa
    - 41.4% land area covered by vegetative or porous surfaces
  - LEED member: Iowa City, Iowa; Lawrence, Kansas; West Lafayette, Indiana
  - CLEAN Communities member: West Lafayette, Indiana
Actions Used in Other Cities

- Renewable energy
  - Removed regulatory restrictions on renewable energy installations (Iowa City, Lawrence, Ann Arbor)
  - Partnerships with local energy providers (Iowa City, Columbia, Ann Arbor)
  - Consumer purchase options (College Station, Columbia, Ann Arbor)
  - Rebate/incentive programs (all)
  - Created a comprehensive community plan (Columbia, Lawrence, Ann Arbor)
- Green Buildings
  - Created zoning/policy requirements for green infrastructure (Iowa City, Columbia, Lawrence, Ann Arbor)
  - Use of rain barrels/gardens (West Lafayette)
  - Held green events and conferences (Iowa City)
  - LEED certification of municipal buildings (Ann Arbor, West Lafayette)
Actions Recommended in STAR

• Renewable Energy
  • Develop a community-wide plan
  • Remove zoning and regulatory restrictions on renewable energy installations
  • Incentive programs
  • Municipal facility and infrastructure improvements

• Green Buildings
  • Develop a green infrastructure plan
  • Require green infrastructure practices in new developments
  • Stakeholder engagement and education
  • Incentives and reporting
Thank You
Questions and Answers