**2020 Category A City: ST. CLOUD**

Currently a Step Two GreenStep City as of 2011

- joined November 2010 -

***Which assessment****? Preliminary; for city review Final: May 5th recommendation to LMC*

***Assessor and date****: Philipp Muessig, 3/16/20*

**YES**

**NO**

**23**

***Total BPs done: All required\* BPs done? BP distribution requirement\* met?***

***Recommend new June 2020 recognition at: Step 3***

Recognition at a Step 3 level involves completing, at a minimum, the following additional actions:

* 15.1 & 1 additional purchasing action
* 29.1 (emergency communications)

\* required for Step 3 recognition

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| --- | --- | --- |
| Best practices (**required\***) BP implemented? Action summary by # and star level achieved  Action rules (req.\* in **bold**)  **YES** | | |
| **BUILDINGS: 2 BPs required; are 2 BPs done?** | | |
| **1. Public**  **1 & 2; & one action from 3-7** | **YES** | 1.1 COMPLETE @ 3 STARS – current data for 400+ citywide meters inc. drinking/WW plants; used to develop annual energy reports for each department/facility to ID potential energy efficiency opportunities and savings  1.2 COMPLETE @ 3 STARS -- lighting assessments completed at nearly all city facilities/buildings; with rebates/guaranteed savings funding options most projects have been no cost or short paybacks; over 3 million kilowatt-hours are being saved each year due to the most recent lighting improvement projects  1.3 COMPLETE @ 3 STARS -- 2 guaranteed savings projects: Energy Efficiency & Biofuel Recovery Project at WWTP will save $400,000/yr.; Street Light Improvement Project will save nearly 3M kWh/yr.  1.5 COMPLETE @ 2 STARS  1.7 COMPLETE @ 1 STAR |
| 2. Private  any two actions | **YES** | 2.1 COMPLETE @ 3 STARS -- participation in Xcel's Partners in Energy Program; Energy Action Plan developed 2016, has goals and strategies related to promoting energy efficiency for the residents of St. Cloud  2.5 COMPLETE @ 1 STAR |
| 3. New  1 or 2; one from 3-5 |  |  |
| 4. Lighting/Signals  2 actions with one from 5-8 | **YES** | 4.2 COMPLETE @ 3 STARS – 2017: all street lights & traffic signals are currently being converted to LED, 2.8M kWh/yr. savings  4.4 COMPLETE @ 2 STARS  4.5 COMPLETE @ 3 STARS -- nearly all city parking lots & parking ramps lighting have been converted to LEDs  4.6 COMPLETE @ 3 STARS – all city facilities have outdoor LED/Dark Sky lighting  4.7 COMPLETE @ 3 STARS – all city-owned parking lot/ramp lighting replaced with LED/Dark Sky lighting  4.8 COMPLETE @ 3 STARS |
| 5. Reuse  any one action | **YES** | 5.1 COMPLETE @ 2 STARS – broken URL  5.2 COMPLETE @ 1 STAR  **YES** |
| **LAND USE: 2 BPs required; are 2 BPs done?** | | |
| **6. Comp Plan**  **1 & 2** | **YES** | 6.1 COMPLETE @ 2 STARS – nice citizen’s guide to the Comp Plan  6.2 COMPLETE @ 2 STARS  6.3 COMPLETE @ 2 STARS – St. Cloud Joint Planning District Plan |
| 7. Density  any one action | **YES** | 7.1 COMPLETE @ 3 STARS  7.3 COMPLETE @ 1 STAR |
| 8. Mixed Uses  any two actions | **YES** | 8.2 COMPLETE @ 1 STAR  8.3 COMPLETE @ 1 STAR  8.5 COMPLETE @ 1 STAR |
| 9. Highway Development  any one action | **YES** | 9.1 COMPLETE @ 2 STARS  9.2 COMPLETE @ 2 STAR S  9.4 COMPLETE @ 1 STAR |
| 10. Conservation Development  any one action | **YES** | 10.1 COMPLETE @ 2 STARS – Environmentally Sensitive Areas Ordinance  10.3 COMPLETE @ 2 STARS  **YES** |
| **TRANSPORTATION: 2 BPs required; are 2 BPs done?** | | |
| **11. Complete Green Streets**  **1; & two additional actions** | **YES** | 11.1 COMPLETE @ 1 STAR – policy passed 5/26/11  11.3 COMPLETE @ 1 STAR  11.4 COMPLETE @ 1 STAR  11.6 COMPLETE @ 2 STARS |
| **12. Mobility Options**  **any two actions** | **YES** | 12.1 COMPLETE @ 3 STARS – park & ride lot for commuter rail; bronze bike friendly community.  12.2 COMPLETE @ 1 STAR  12.3 COMPLETE @ 1 STAR  12.6 COMPLETE @ 2 STARS – campus bike share |
| 13. Fleets  any two actions | **YES** | 13.2 COMPLETE @ 1 STAR  13.3 COMPLETE @ 2 STARS – 2011 St. Cloud Metro Bus is home to the nation’s first public bus powered by recycled vegetable oil coming directly from St. Cloud State University’s on-campus dining, saving an estimated $2.30 per gallon  13.4 COMPLETE @ 1 STAR |
| 14. TOD / TDM  any two actions | **YES** | 14.2 COMPLETE @ 2 STARS – transit service routes are routinely revised to accommodate new, expanding and relocating retail centers  14.4 COMPLETE @ 1 STAR  **YES** |
| **ENVIRON MGT: 4 BPs required; are 4 done?** | | |
| **15. Purchasing**  **1; and one additional action** | **NO** |  |
| **16. Trees**  **any two actions** | **YES** | 16.1 COMPLETE @ 2 STARS  16.3 2011 tree canopy study underway  16.4 COMPLETE @ 1 STAR  16.5 COMPLETE @ 1 STAR |
| **17. Stormwater**  **any one action** | **YES** | 17.3 COMPLETE @ 1 STAR  17.4 COMPLETE @ 2 STARS  17.5 COMPLETE @ 3 STARS – design standards for rain gardens, green roofs, and green parking lots  17.6 this is now a de-icing salt action, vs. erosion control ordinance which is required of St. Cloul |
| 18. Parks & Trails  any three actions | **YES** | 18.1 COMPLETE @ 1 STAR  18.2 COMPLETE @ 1 STAR  18.4 COMPLETE @ 1 STAR  18.7 COMPLETE @ 1 STAR  18.8 COMPLETE @ 1 STAR |
| 19. Surface Water  if state public water: 4; and one additional action | **YES** | 19.3 COMPLETE @ 1 STAR – city an active member of the Central Minnesota Water Education Alliance  19.4 COMPLETE @ 2 STARS --Shoreland Overlay District ordinance as a part of the Land Development Code |
| 20. Water / Wastewater  1 & 2; and one additional | **YES** | 20.1 COMPLETE @ 2 STARS -- utility billing data entered into B3 for drinking/WW plants & used to benchmark WWTP against peers  20.2 COMPLETE @ 1 STAR – energy efficiency is a key criteria when selecting equipment replacement options  20.4 COMPLETE @ 1 STAR – energy & chemical efficiency evaluations are completed daily at both DW & WW treatment facilities  20.6 COMPLETE @ 3 STARS -- WWTP generates on average 80% of its electrical demand onsite through solar and anaerobic digestion |
| 21. Septics  any one action |  |  |
| 22. Solid Waste  1 or 2; & one from 4-8 |  |  |
| 23. Local Air Quality  any two actions | **YES** | 23.2 COMPLETE @ 1 STAR  23.3 COMPLETE @ 1 STAR  **YES** |
| **ECON & COMM DVLP: 3 BPs required; are 3 done?** | | |
| **24. Benchmarks & Involvement**  **1 & 2** | **YES** | 24.1 COMPLETE @ 2 STARS – St. Cloud Area Sustainability Committee  24.2 COMPLETE @ 1 STAR  24.4 COMPLETE @ 2 STARS  24.5 COMPLETE @ 3 STARS – St. Cloud Area Sustainability Plan |
| **25. Green Businesses**  **any two actions** | **YES** | 25.2 COMPLETE @ 1 STAR  25.7 COMPLETE @ 2 STARS -- St. Cloud Area Chamber of Commerce operates Shop Local, Eat Local, Invest LocaL, Stay Local |
| 26. Renewable Energy  any two actions | **YES** | 26.1 COMPLETE @ 2 STARS  26.5 COMPLETE @ 3 STARS – 2015: 4 solar arrays-0.438M kWh/yr.- on City property; biofuel recovery at WWTP generates 5M kWh/yr.; 600 kW turbine at VA |
| 27. Local Food  any one action | **YES** | 27.1 COMPLETE @ 2 STARS  27.2 COMPLETE @ 1 STAR  27.3 COMPLETE @ 1 STAR |
| 28. Business Synergies  2, 3 or 4 |  |  |
| **29. Climate Adaptation**  **action 1**  (includes targeted emergency communications in appropriate languages for vulnerable populations) | **NO** |  |

**ST. CLOUD –** notable actions

* **3M kWh/yr. savings** from recent building lighting improvement projects, most done at no cost/short paybacks through use of utility rebates/guaranteed energy savings programs
* **$400,000/yr. energy savings** from an energy efficiency and biofuel recovery project at the waste water treatment facility; biofuel recovery generates 5M kWh/yr.; treatment plant generates 80% of its electrical demand onsite through solar and anaerobic digestion
* **2.8M kWh/yr. savings** from 2017 project to convert all street lights & traffic signals to LEDs
* **$18.5 million calculated savings** over 40 years by 5-yr. LED street lighting plan for 5,000 street light changeouts
* **4 solar arrays on city property** generate 0.44M kWh/yr.; 600 kW wind turbine at VA hospital produces 15% of facility need, saving $98,000/yr.
* **Nation’s first public bus powered by recycled vegetable oil** @ $2.30/gal.
* **St. Cloud State campus bike-share** service established
* **Green roof, green parking lot** and rain garden design standards
* **St. Cloud Area Sustainability Plan** adopted
* **Shop Local, Eat Local, Invest Local, Stay Local** program of St. Cloud Area Chamber of Commerce
* **$210,530/yr. savings by using ductile iron** drinking water mains vs. PVC; elimination of any potential to leach carcinogens into the public water supply
* **Bicycle-Friendly Community** recognition at the Bronze level in 2018
* **Renewable energy supplied 83%** of city operational demand during 2018
* **$35 million estimated savings** from city investments in renewable energy during 2020-2045