**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 savings1.2 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 projects1.3 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 STARS1.7 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. Cloud2.5 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. savings4.4 COMPLETE @ 2 STARS4.5 COMPLETE @ 3 STARS -- nearly all city parking lots & parking ramps lighting have been converted to LEDs4.6 COMPLETE @ 3 STARS – all city facilities have outdoor LED/Dark Sky lighting4.7 COMPLETE @ 3 STARS – all city-owned parking lot/ramp lighting replaced with LED/Dark Sky lighting4.8 COMPLETE @ 3 STARS |
| 5. Reuse any one action | **YES** | 5.1 COMPLETE @ 2 STARS – broken URL5.2 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 Plan6.2 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 STAR8.3 COMPLETE @ 1 STAR8.5 COMPLETE @ 1 STAR  |
| 9. Highway Development any one action | **YES** | 9.1 COMPLETE @ 2 STARS9.2 COMPLETE @ 2 STAR S9.4 COMPLETE @ 1 STAR  |
| 10. Conservation Development any one action | **YES** | 10.1 COMPLETE @ 2 STARS – Environmentally Sensitive Areas Ordinance10.3 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 STAR11.4 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 STAR12.3 COMPLETE @ 1 STAR 12.6 COMPLETE @ 2 STARS – campus bike share |
| 13. Fleets any two actions | **YES** | 13.2 COMPLETE @ 1 STAR13.3 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 gallon13.4 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 STARS16.3 2011 tree canopy study underway16.4 COMPLETE @ 1 STAR 16.5 COMPLETE @ 1 STAR |
| **17. Stormwater** **any one action** | **YES** | 17.3 COMPLETE @ 1 STAR17.4 COMPLETE @ 2 STARS17.5 COMPLETE @ 3 STARS – design standards for rain gardens, green roofs, and green parking lots17.6 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 STAR18.7 COMPLETE @ 1 STAR18.8 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 Alliance19.4 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 options20.4 COMPLETE @ 1 STAR – energy & chemical efficiency evaluations are completed daily at both DW & WW treatment facilities20.6 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 STAR23.3 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 Committee24.2 COMPLETE @ 1 STAR24.4 COMPLETE @ 2 STARS 24.5 COMPLETE @ 3 STARS – St. Cloud Area Sustainability Plan |
| **25. Green Businesses** **any two actions** | **YES** | 25.2 COMPLETE @ 1 STAR25.7 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 STARS26.5 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 STARS27.2 COMPLETE @ 1 STAR27.3 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