**2020 Category A City: MAPLEWOOD**

a Step Five GreenStep City as of June 2019

- joined December 2010 -

***Assessor and date****: Philipp Muessig, 1/13/2020*

**24**

***Total BPs done:***

|  |  |  |
| --- | --- | --- |
| Best practices (**required**) BP implemented? Action summary by # and star level achieved  Action rules (req. in **bold**) ***Distribution BPs done?***  **YESB** | | |
| **BUILDINGS: 2 BPs required; 2 BPs done?** | | |
| **1. Public**  **1 & 2; & one action from 3-7** | **Yes** | 1.1 COMPLETE @ 2 STARS – data since 2008 used to make changes; A clear process for inputting B3 data  1.2 Complete – 1 star  1.3 Completed – 1 star  1.4 COMPLETE @ 3 STARS -- power management for computers, office lighting; Energy Challenge to City employees; 2015 Power Down plug load study  1.5 Completed – 3 STARS -- 2013 Maplewood Green Building Program based on 2012 International Green Construction Code (IgCC); city was first in the country to adopt a Green Building Code based on the new international standards. Fire Station No. 1 first building in the nation designed and built to the specs and cut natural gas use in 2015 by 38% ($5,000/yr. savings) compared to other fire stations in the City. |
| 2. Private  any two actions | **Yes** | 2.1 Complete –3 stars – 2015 Partners in Energy MOU with Xcel Energy to do Energy Action-outreach to high R/C users; 2015 Energize Maplewood! A Community Action Plan Towards Carbon Neutrality; 2016 Building Tune Up Program for seven local businesses  <http://www.ci.maplewood.mn.us/DocumentCenter/View/12810>  2.2 COMPLETE @ 2 STARS – ICC700 code cost/energy savings available during the building permit processes  2.4 Complete – 2 stars -- low-rise multi family development in the city that is rated LEED gold  2.5 Completed – 2 stars  2.6 COMPLETE @ 2 STARS  2.7 Completed – 3 STARS -- policy based off the International Green Construction Code governing commercial renovation projects that require city regulatory approval |
| 3. New  1 or 2; one from 3-5 | **Yes** | 3.1 COMPLETE @ 3 STARS -- International Green Construction Code required for new city buildings  3.3 COMPLETE @ 2 STARS – all city-financed buildings/projects will be considered by the City as to how they follow IgCC code  3.4 COMPLETE @ 2 STARS – city staff help early in the planning process; special recognition; possible EDA cash awards  3.5 w/o council adopted covenant guidelines, actions fall short of 1 star |
| 4. Lighting/Signals  2 actions with one from 5-8 | **No** | 4.3 UNDERWAY  4.4 Completed – 3 stars – traffic signal timing part of the living streets policy implemented in 2013 for all new construction and renovation projects |
| 5. Reuse  any one action | **Yes** | 5.1 COMPLETE @ 2 STARS -- historic preservation commission & ordinance  5.2 COMPLETE @ 1 STAR  5.4 COMPLETE @ 1 STAR -- assistance during the permitting process  5.5 Completed – 2 stars -- Gladstone redevelopment (mix of residential, senior living, strip/large commercial) close to transportation trail options |
| **YESB**  **LAND USE: 2 BPs required; 2 BPs done?** | | |
| **6. Comp Plan**  **1 & 2** | **Yes** | 6.1 Completed -- 2 stars – sustainability chapter  6.2 Completed—2 stars -- many ordinances that utilize the Comprehensive Plan as a foundation for decisions  6.3 Completed – 1 star  6.4 Completed – 3 stars  6.5 Completed – 3 stars -- April 2015 A Community Action Plan  Towards Carbon Neutrality <http://www.ci.maplewood.mn.us/DocumentCenter/View/12810> |
| 7. Density  any one action | **Yes** | 7.1 Completed – 1 star  7.2 Completed – 1 star  7.3 Completed – 1 star |
| 8. Mixed Uses  any two actions | **Yes** | 8.2 Completed – 2 stars – shared parking  8.3 Completed – 1 star  8.5 COMPLETE @ 1 STAR  8.6 Completed – 2 stars; form-based zoning for the Gladstone area; city has also incorporated form based thinking with "Living Streets" related to future developments.  8.7 Completed – 1 star |
| 9. Highway Development  any one action | **Yes** | 9.1 Completed – 2 stars -- visual preference survey conducted  9.2 Completed – 1 star |
| 10. Conservation Development  any one action | **Yes** | 10.3 Completed – 1 star  10.5 Completed – 2 stars – 2 easements  **YESB** |
| **TRANSPORTATION: 2 BPs required; 2 BPs done?** | | |
| **11. Complete Green Streets**  **1; & two additional actions** | **Yes** | 11.1 COMPLETE @ 3 STARS – Living Streets policy implemented  11.3 COMPLETE @ 3 STARS - For all of Maplewood's street reconstruction projects, the City installs rain gardens  11.4 Completed – 3 stars – planned and routine Living Streets improvements  11.5 Completed – 1 star  11.6 Completed – 2 stars |
| **12. Mobility Options**  **any two actions** | **Yes** | 12.1 COMPLETE @ 2 STARS -- Living Streets plan requires the creation of paved shoulders that are the width of the average city bike lane  12.2 COMPLETE @ 1 STAR  12.3 COMPLETE @ 1 STAR  12.4 Completed – 1 star  12.6 COMPLETE @ 2 STARS – expanded park & ride lot by Maplewood Mall |
| 13. Fleets  any two actions | **Yes** | 13.1 Completed -- 2 stars -- vehicle sharing policy between departments; more effective car pooling & sharing >> city downsized fleet by 3 vehicles and will be downsizing by 1 more in 2015 this year  13.2 Completed – 2 star s -- <http://www.geotab.com> for monitoring in all police cruisers; early 2014, 2 new police interceptors to replace older Crown Victorias savin, on average, 5 to 8 miles per gallon.  13.3 Completed – 2 stars – full-electric GEM car  13.4 Completed – 2 stars – code-enforcement by foot/bike  13.6 Completed – 1 star |
| 14. TOD / TDM  any two actions  **YESB** | **No** |  |
| **ENVIRONMENTAL MANAGEMENT: 4 BPs required; 4 BPs done?** | | |
| **15. Purchasing**  **1; and one additional action** | **Yes** | 15.1 Completed – 3 stars -- joined the State Electronics Challange in 2015  15.5 Completed – 1 star  15.7 Completed -- 1 star  15.8 Completed -- 1 star |
| **16. Trees**  **any two actions** | **Yes** | 16.1 COMPLETE @ 1 STAR  16.4 Completed – 2 stars: city covers 50% or $100 of any street shade tree purchased by residence  16.5 Completed – 2 stars  16.6 Completed – 3 stars |
| **17. Stormwater**  **any one action** | **Yes** | 17.2 COMPLETE @ 3 STARS -- #4 on the BlueStar leaderboard  17.3 Completed – 3 stars -- all re/new development over ½-acre or over 5,000 sq. ft. of new impervious surfaces fall under new stormwater requirements; runoff rates shall not exceed the pre-project runoff rates for the 2-year, 10-year, and 100-year critical duration storm events; total suspended solids will require treatment through infiltration practices for runoff volumes of at least 1.0 inch over all new impervious and redevelopment impervious portions of a project  17.4 Completed – 3 stars  17.5 Completed – 3 stars: city has over 620 home rain gardens and over 60 rain gardens on city land  17.6 this action no longer in the GS program because it is a state requirement application required for all construction activity that proposes to disturb 500 sq. ft. adjacent to sensitive areas; |
| 18. Parks & Trails  any three actions | **Yes** | 18.1 Completed – 2 stars -- Lakes Link Trail; new trails near Lake Phalen connecting to Gateway trail and the Bruce Vento trail  18.2 Completed – 2 stars --any new development requires the planning and budgeting for large open spaces, parks, water features or trails  18.3 Completed – 3 stars  18.4 Completed – 2 stars  18.5 Completed – 2 stars – low/no mow turf areas, native landscaping, organic and integrated pest mgt.  18.6 Completed – 1 star  18.7 COMPLETED @ 3 STARS – Wakefield Park building built 2019 under Maplewood's Green Building Code and is a solar-ready building  18.8 Completed – 2 stars |
| 19. Surface Water  if state public water: 4; and one additional action | **Yes** | 19.3 Completed – 1 star  19.4 COMPLETE @ 1 STAR  19.6 COMPLETE @ 2 STARS |
| 20. Water / Wastewater  1 & 2; and one additional | **No** | 20.1 Saint Paul owns and operates all the water processing plants that supply the city of Maplewood  20.3 Completed – 2 stars – camera surveillance; quarterly review of flow reports; I&I addressed during street reconstruction; illegal sump pump connections checked for |
| 21. Septics  any one action | **Yes** | 21.2 Completed – 1 star  21.3 COMPLETE @ 2 STARS  21.4 Completed – 3 stars – inspection at time of property transfer; owner submits required MPCA Septic Tank Maintenance Reporting Form to City |
| 22. Solid Waste  1 or 2; & one from 4-8 | **Yes** | 22.2 action is now about consumer products. recycling in the parks program since 2011; March of 2015 it was discovered that 71% of the city’s waste could be reused, recycled, or composted.; internal city facility recycling program; composting at comm. ctr.  22.3 COMPLETE @ 1 STAR  22.4 Completed – 2 stars -- with Bridging, Goodwill, Disabled American Veterans, Re-cycle, small engine mechanics (broken web link)  22.5 COMPLETE @ 1 STAR -- food-to-hogs program at a school; free compostable bags to hand to residents  22.6 Completed – 3 stars: 2012, 1st switch to organized collection in 19 years! Maplewood residents are saving $1.6 million per year compared to actual rates and $1 million per year compared to advertised rates. This equals a savings of 50% to 75% on most resident's previous open hauling trash bill  22.7 Completed – 2 stars – chips in containers; 95gal $13.32, 20gal$9.52 ($7.02 bi-weekly); bi-weekly trash rate |
| 23. Local Air Quality  any two actions | **Yes** | 23.2 Completed – 1 star  23.3 Completed – 1 star  **Yes** |
| **ECON. & COM. DEVELOPMENT: 3 BPs required; 3 BPs done?** | | |
| **24. Benchmarks & Involvement**  **1 & 2** | **Yes** | 24.1 Completed – 3 stars -- Environmental and Natural Resources Commission; staff green team; annual sustainability report; PIE; Energize Maplewood! (Energy Action Team)  24.2 2 stars – Regional Indicators Initiative  24.3 2 stars  24.4 Completed – 2 stars – Partners in Energy; Nature Center sustainability education, buckthorn busting |
| **25. Green Businesses**  **any two actions** | **Yes** | 25.1 COMPLETE @ 1 STAR – trillion BTU deal; 2009 Maplewood Mall grant for 107 parking lot lighting retrofits helped create a new green job at Mall from saving of 135,802 kWh's a year.  25.2 COMPLETE @ 2 STARS – city & Waste Wise staff visits, 12+ businesses & churches, waste & energy audits, savings for some of $800+/yr in trash hauler fees.  25.3 COMPLETE @ 1 STAR  25.4 COMPLETE @ 1 STAR  25.5 COMPLETE @ 1 STAR  25.6 COMPLETE @ 1 STAR -- Garden Fresh Farms aquaponic facility has been certified as a Minnesota Grown Company  25.7 COMPLETE @ 1 STAR -- local foods brochure to all households |
| 26. Renewable Energy  any two actions | **Yes** | 26.1 Completed – 2 stars  26.2 COMPLETE @ 2 STARS  26.3 Underway – looking at PACE  26.5 Completed – 1 star |
| 27. Local Food  any one action | **Yes** | 27.2 Completed – 2 stars – community garden by high density, multi-cultural housing; chickens by permit  27.3 Completed – 2 stars -- One of the city's naturalists also works as the community garden coordinator for all city community gardens.  27.4 COMPLETE @ 1 STAR |
| 28. Business Synergies 2, 3 or 4 | **No** |  |
| 29. Climate Adaptation  *Action 1*  Category A & B cities must achieve a 1-star rating plus either a 2- or 3- star rating for Step 3 recognition | **NO** | 29.1 COMPLETE @ 1 STAR -- volunteer groups with appropriate training to assist in emergency situations  29.2 COMPLETE @ 2 STARS -- 2017 climate vulnerability assessment; 2019 funding & outreach to create a Climate Adaptation Plan  29.3 COMPLETE @ 1 STAR -- workshops, educational opportunities, Fix It Clinics, and Career Day events  29.5 COMPLETE @ 1 STAR -- Holistic asset management for pavement, storm, lighting, sewer, buildings: assets mapped & conditioned-rated in the Cartegraph system; an issue can be reported by citizens on smart phone app.  29.6 COMPLETE @ 1 STAR -- Rain gardens located in the right-of-ways were created as part of street reconstruction projects  29.7 COMPLETE @ 1 STAR --2016 Energize Maplewood! Team Energy Challenge includes 100 households formed teams to reduce energy use through conservation, energy efficiency improvements and utility rebate programs; also restoration of over 22 acres of grassland to native prairie vegetation, with school groups, Century College students. Citizens also working on community gardens, urban trees, stormwater green infrastructure |

**MAPLEWOOD** – notable actions

* ***2015 Community Action Plan: Towards Carbon Neutrality*** adopted by city; 2-yr. outreach partnership with Xcel Energy will reduce energy costs for high residential/commercial users
* **136,000 kWh/yr. savings & one new green job** resulting from $10,000 city grant to Maplewood Mall for 107 parking lot lighting retrofits
* **$800+/yr. in trash hauler fee reductions** for several businesses resulting from close city/Waste Wise staff visits
* **RFID chips on trash carts** allow city to offer bi-weekly garbage rates and price breaks for 3+ week resident vacations
* **First MN city in 20 years to shift to organized residential waste collection**, estimated to save residents approximately $1 million per year and to save the city money spent on excessive road wear and tear
* **Adopted “Living Streets” policy** addressing rain gardens, traffic calming, improved walking and biking conditions, and boulevard tree standards
* **$100,000 saved by using living streets design** in a street reconstruction project with less pavement
* **International Green Construction Code** governs all new city buildings, all commercial renovation projects that require city regulatory approval
* **City installs rain gardens in all street reconstruction** projects; there exist over 620 home rain gardens and over 60 rain gardens on city land
* **City covers 50% or $100 of any street shade tree** purchased by a resident
* **Chickens and bees** allowed by ordinance; city community garden coordinator for all city community gardens
* **Fire Station No. 1 cut 2015 natural gas use 38%** ($5,000/yr. savings) below other fire stations in the city; first station in the nation built to 2012 IgCC ( International Green Construction Code - the basis of the 2013 Maplewood Green Building Program)
* **City fleet eliminated 4 vehicles** by means of policy that spurred more effective carpooling & sharing between departments
* **Holistic asset management** **program** for pavement, storm water, lighting, sewer, buildings: assets mapped & condition-rated in the Cartegraph system; an issue can be reported by citizens via smart phone app
* **2017 climate vulnerability assessment**; 2019 funding & outreach to create a Climate Adaptation Plan
* **2019 Wakefield Park building**: solar-ready and built under city's Green Building Code