**2020 Category B Tribal Nation: Fond du Lac Band of Lake Superior Chippewa**

Currently at GreenStep Level 1

- joined February 2017 -

***Which assessment****? Preliminary: for tribal review Final: May 1st recommendation to LMC*

***Assessor and date****: Philipp Muessig, 10/16/19*

**4**

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

***Recommend June 2020 public recognition at: Step 2 (any 6 BPs) Step 3***

Recognition at a Step 3 level involves, at a minimum:

* Implementing 12 best practices, including:
  + 6 specific BPs: #1, #6, #15, #16, #24, #25, #29
  + 2 Building BPs, 2 Land Use BPs, 1 Transportation BP, 3 Env. Mgt. BPs, 3 Comm./Econ. BPs
* Completing 17 actions, including:
  + 7 specific actions: #1.1 & #1.2; #6.1 & #6.2; #15.1; #24.1; #29.1

***\* Note****: requirements are only for Step 3 recognition*

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| --- | --- | --- |
| Best practices (**required\* in bold**) BP implemented? Action summary by # and star level achieved  Action rules (req.\* actions in **bold**) | | |
| **NO**  **BUILDINGS: distribution requirement\* is 2 BPs; are 2 done?** | | |
| **1. Public**  **Actions 1 & 2** | **YES** | 1.1 COMPLETE @ 3 STARS -- Using B3 data since 2011; commercial audits by MN Power (resulting in 15% energy reduction), Noresco (20 tribal bldgs.: upgrades saving $722,403/yr., 6 yr. payback)  1.2 COMPLETE @ 1 STAR -- 2012 school gym relamping: $1,140 rebate; $2,736/yr. savings; 1/7 yr. payback period  1.3 COMPLETE @ 2 STARS -- lighting retrofits, boiler replacements, chiller plant and air handling unit upgrades, water conservation measures, and building level control optimization directed via 2016 audit aiming to meet 2007 goal to reduce fossil fuel emissions 20% by 2020  1.5 COMPLETE @ 3 STARS -- 2010 new Resource Mgt./Tribal Court building: 1st LEED certified building in Carlton Co.; 12.5kw solar array, passive solar/daytime lighting, low flow water fixtures, green roof, rain garden |
| 2. Private  any one action |  |  |
| 3. New  any one action |  |  |
| 4. Lighting/Signals  2 actions; one from 5-8 |  |  |
| 5. Reuse  any one action |  |  |
| **LAND USE: 2 BPs required\*; are 2 done?** | | |
| **6. Comp Plan**  **Actions 1 & 2** |  |  |
| 7. Density  any one action |  |  |
| 8. Mixed Uses  any one action |  |  |
| 9. Highway Development  any one action |  |  |
| 10. Conservation Development  any one action |  |  |
| **TRANSPORTATION: 1 BP required\*; is 1 done?** | | |
| 11. Complete Green Streets  1; & one additional action |  |  |
| 12. Mobility Options  any one action |  |  |
| 13. Fleets  any one action |  |  |
| 14. TOD / TDM  any two actions |  | **NO** |
| **ENVIRONMENTAL MGT: 3 BPs required\*; are 3 done?** | | |
| **15. Purchasing**  **1; and one additional action** | **NO** | 15.1 COMPLETE @ 2 STARS -- 2012 FDL Ojibwe School policy to increase recycled-content materials, less toxic/more degradable materials, less packaging, more energy-conserving; policy applies to outside contractors |
| **16. Trees**  **any one action** |  |  |
| 17. Stormwater  any one action |  |  |
| 18. Parks & Trails  any two actions |  |  |
| 19. Surface Water  if state public water: 4; and one additional action  others: any one action | **NO** | 19.3 COMPLETE @ 2 STARS – 1998 Water Quality Standards of the Fond du Lac Reservation adopted - set contaminant criteria & designated uses for all reservation lakes/streams, includes 3- year baseline monitoring project designed to assess indicators for environmental & human health |
| 20. Water / Wastewater  1 & 2; and one additional |  |  |
| 21. Septics  any one action |  |  |
| 22. Solid Waste  one from 1-3; & one from 4-8 |  |  |
| 23. Local Air Quality  any one action | **YES** | 23.1 COMPLETE @ 1 STAR -- 2007 installation of diesel oxidation catalysts on on/off-road vehicles; outdoor air monitors (ozone, NO,Hg, particulates) |
| **ECON & COMM DEVELOP: 3 BPs required\*; are 3 done?** | | |
| **24. Benchmarks & Involvement**  **1; and one additional action** |  |  |
| **25. Green Businesses**  **any two actions** |  |  |
| 26. Renewable Energy  any two actions | **YES** | 26.5 COMPLETE @ 3 STARS -- Renewables have helped to reduce fossil fuel use in 2018 by almost 40% since 2007 (double the 2020 goal set by the reservation business committee). 1 MW ground-mount solar PV 2016 project can meet 50% of Black Bear Casino/Resort needs. 1.7MMbtu biomass boiler at Sawyer community center; self-sourced woodchips replace 88% of the center's propane use. 12.25 kW PV on LEED building. 3kw PV at Ojibwe School.  26.6 COMPLETE @ 3 STARS -- Support for renewables in homes: 13.5kw of renewable solar energy generated by 4 3kw PV systems, 1 solar electric hot water system, 7 solar hot air systems. FDL designing a zero net energy home. Cost & performance data for these systems will be used to develop a model to design/install these systems at sites of different scales, for people with varying budgets. |
| 27. Local Food  any one action | **YES** | 27.1 COMPLETE @ 2 STARS – NR Mgt. District to sustain, enhance areas for traditional hunting, fishing, logging, gathering  27.2 COMPLETE @ 3 STARS -- FDL’s Gitigaan Program offers gardening, food-related workshops in spring, summer; 13 Moons Program connects community members to each other and to natural resources by increasing awareness of and Ojibwe cultural knowledge about traditional and other resources; free tilling for home gardens  27.3 COMPLETE @ 3 STARS -- weekly farmer's market @ FDL Gas & Grocery; summer Journey Garden Program (ages 14-18) to learn gardening, nutrition, cooking, business, science, math, community, language, Ojibwe culture; research & demo garden includes individual community member growing plots, a greenhouse, high tunnel & cold frames, and food and medicines are provided to the Ojibwe School, Elderly Nutrition Program, community centers, and community feasts  27.4 COMPLETE @ 1 STAR -- school policy to maximize proportion of goods and services that come from local providers with acceptable environmental practices |
| 28. Business Synergies  2, 3 or 4 |  |  |
| **29. Climate Adaptation**  **action 1**  (includes targeted emergency communications in appropriate languages to address vulnerable populations) | **NO** | 29.2 COMPLETE @ 2 STARS -- 2016 inter-tribal assessment of climate change vulnerability for species in the region; results integrated into 2017 update of FDL Integrated Resource Management Plan |

**FOND DU LAC BAND:** selected highlights

* **$722,403/yr. savings**, 6 yr. payback on 20 tribal building upgrades; commercial audits by MN Power resulted in 15% energy reduction
* **Purchasing policy**, 2012 in FDL Ojibwe School to increase recycled-content materials, less toxic/more degradable materials, less packaging, more energy-conserving equipment; policy applies to outside contractors
* **Research & demo garden includes** individual community member growing plots, a greenhouse, high tunnel & cold frames, and food and medicines are provided to the Ojibwe School, Elderly Nutrition Program, community centers, and community feasts. A weekly farmer's market @ FDL Gas & Grocery; a summer Journey Garden Program for ages 14-18 teaches gardening, nutrition, cooking, business, science, math, community, language, Ojibwe culture
* **1st LEED-certified building** in Carlton County: 2010 new Resource Mgt./Tribal Court building. 12.5kW solar array, passive solar/daytime lighting, low-flow water fixtures, green roof, rain garden
* **40% reduction in fossil fuel use** (2007-2018) aided by renewables - double the 2020 goal. 1 MW 2016 ground-mount solar PV project meets 50% of Black Bear Casino/Resort needs; 1.7MM BTU biomass boiler at Sawyer Community Center; self-sourced woodchips replace 88% of the Center's propane use; 3kW PV at Ojibwe School
* **Band support for residential renewables** results in 13.5kW of renewable solar energy generated by 4 3kW PV systems, 1 solar-electric/hot-water system, 7 solar hot-air systems. FDL designing a zero net-energy home. Cost & performance data for these systems will be used to develop a model to design/install these systems at sites of different scales, for people with varying budgets.