



Township of Woodbridge

John E. McCormac, Mayor

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Sustainable Jersey
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RE: Sustainable Jersey 2020 Certification/ Municipal On-Site Solar System

To Whom It May Concern:

As Mayor of Woodbridge Township, I am pleased to report that Woodbridge, as Sustainable Jersey Champions (in the large municipality category), remains committed to innovative energy initiatives; in fact, Woodbridge was one of the first communities to engage solar energy. There are over thirty public buildings with solar-panels which include schools, fire departments and municipal buildings. The Township directly owns and manages four photovoltaic (PV) solar systems (denoted below within table 1). The four solar energy systems that the Township directly owns include: the Woodbridge Community Center, the Woodbridge Public Library, the Health Center and the Evergreen Senior Center. The system types are photovoltaic (PV) solar for electricity behind the meter at each of the facilities. The date the system was placed in use can be located on table 1 as well (interconnection date).

TABLE 1

System	Interconnect Date	Address
Main Library	2/9/2010	1 George Frederick Plaza
Community Center	11/5/2009	600 Main St
Health Center	11/5/2009	2 George Frederick Plaza
Senior Center	11/5/2009	410 Inman Ave

The system size, including both nameplate power rating (in kilowatts or similar units), and annual energy generation (in kWh for electricity, or BTUs for thermal) and the percentage of each Township facility's energy usage that is coming from solar can be found in Tables 2 and 3. To procure this information the Township added the PSE&G usage (KwH) and the annual solar production (KwH) to find the total electricity usage. We then divided the annual solar production by the total annual electricity usage to ascertain the percentage of the total electricity usage offset by solar. Attached to the action submittal web portal is the KwH usage for Woodbridge (structures denoted in table 1) between January 2018 and December 2018.

The data pertinent to 2018 was used to ensure that said data is within the 2.5 year look-back period, while also confirming that data associated with solar production was accurate. Woodbridge Township is a net meter customer, and as such, some months denote zero (0) usage with regard to the attached spread sheet; so the kWh column is not populated for said months. As a result the complete historical load is only available for the Community Center and the Main Library, and the energy offset by solar is documented accordingly below (spreadsheet and calculations are attached).

TABLE 2

Township owned PV site	System size (kW)	2018 Annual Solar Kwh
Main Library	146.51	143,419
Community Center	493.35	519,189
Health Center	69.77	78,175
Senior Center	119.6	129,261

TABLE 3

Township owned PV site	Energy use off-set by solar
Main Library	12%
Community Center	16%
Health Center	Unable to document the historical load / Net Metered
Senior Center	Unable to document the historical load / Net Metered

Furthermore, the mounting type for all aforementioned PV's are ballasted, roof-mounted systems and the utility displacement expressed as a percentage is denoted above on Table 3. In addition, all four of the systems are owned by the Township through a combination of REIP incentives, ARRA funds and Capital Expenditure recouped through SREC sales. All four of the systems have been paid-off. To install the aforementioned solar systems, the Township contracted Birdsall Services Group as the energy consultant and selected Barrier Electric and Advanced Solar. Currently, the Township uses Gabel Associates and Littoral to conduct O&M and manage the SRECs.

Community outreach completed for these projects include, but are not limited to, publicly available information located at several conveniently located kiosk(s), online via the Township website (www.twp.woodbridge.nj.us), in print delivered to each mailing address of the Township via the Woodbridge News (a quarterly print magazine detailing Township affairs) and public sustainability oriented discussions centered on solar/community solar such as, but not limited to, Greenable Woodbridge (found on the web at: <https://www.youtube.com/watch?v=EAWoCs9adJk&feature=youtu.be>) and posted to the Woodbridge Channel TV 35.

Thank you for your attention to and review of the Township's request to receive Sustainable Jersey points for Municipal On-Site Solar Systems.

Sincerely,



John E. McCormac
Mayor
Woodbridge Township