Open Data Dataset Metadata

2025-09-16

Dataset Name: Solar City Program - Solar Electric Generation with Micro-Inverters

Date Released: March 29, 2018

Open Data Categories:

Environment

Dataset Description:

Table of solar electric generation data readings per day for solar electric systems installed through the municipally-led Halifax Solar City program.

Data Purpose:

The data is intended to verify solar electricity generation as compared to theoretical values and to promote research and awareness of solar electric generation potential in Halifax Regional Municipality.

Notes or Disclaimers:

Data was collected by Enphase Microinverters and compiled by HRM. This dataset has been archived and is no longer being updated

Dataset Owner: Halifax

Owner Contact Information: opendata@halifax.ca

Dataset Tags:

Halifax, Solar, Panel, Energy, Electricty, Photovoltaic, Generation, Emissions, Solar City, Module, GHG, Nova Scotia Power, NSP, Net Metering, Grid Tie, Micro Inverter, Inverter, Halifax Open Data, Environment

Fitness for Use:	Good	Dataset Period of Coverage:	2016 - 2024
Dataset Type:	Tabular	Dataset Format:	CSV
Coordinate System:	Not applicable	Maintenance Frequency:	Not applicable
Data Refresh:	No - it is static	Refresh Frequency:	Not applicable

Appendix A

Dataset Name: **Solar City Program - Solar Electric Generation with Micro-Inverters** September 16, 2025

Feature Type: **Table**

Open Data Metadata		Dataset Metadata		
Published Name	**Description**	**Field Name**	**Field Type**	**Field Length**
SYSTEM_ID	A unique system id for each of the solar panel installations.	system_id	varchar	10
DATE	The date and time when the reading was taken. The readings are taken every 5 minutes. Date format is MM/DD/YYYY H:MM	end_at	datetime	
PANELS_REPORTING_MICRO_INVERTER	Total solar electric panels reporting that are on a micro-inverter. A micro-inverter converts the DC that is created at the panel to AC for use on in the home or to be exported to the electrical grid.	devices_reporting	int	
WATTS	A measure of the instantaneous power that is created at the point in time of the reading.	powr	int	
WATT-HOUR	A measure of electrical energy equivalent to a power consumption of one watt for one hour of time.	enwh	int	
KILOWATT-HOUR	A measure of electrical energy equivalent to a power consumption of one thousand watts for one hour of time.	kWh	decimal	
COMMUNITY_NAME	The community name where the solar panel installation is located.	Location	varchar	30
FORWARD_SORTATION_AREA	The forward sortation area where the solar panel installation is located. The forward sortation area is the first three digits of the postal code.	Postal Code	varchar	3