

The Ravina Project

Data Release 1.0

Daily data collected from January 1st, 2007 until May 31st, 2019



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REV 1.0

The Ravina Project - Goals

The Ravina Project consists of several projects all proceeding concurrently. If we were to rename our project today we probably would name it, "The Ravina Projects".

Our project goals page allows our readers to understand the scope and depth of the various areas of inquiry focused totally on the household.

See the Project Goals page on our WEB site at:

www.theravinaproject.org/Project_Goals.htm

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Introduction

One of the major goals of The Ravina Project is to record a daily energy accounting for the household over more than a decade. Just recently we have added a Tesla Model 3 to our set of household loads. This first release of the resulting daily data includes 365 days of Tesla load.

We will update this version 1.0 release every 6 months.

This short document provides further information to those who wish to use our data.

The Ravina Project provides this data at no cost to the users. We retain Copyright for the data however we only ask those who use our data to give The Ravina Project credit.

The Data

The data is presented in comma separated value format. It consists of daily meter readings and temperature data from the local weather office. Over the course of the 12 and a half years since the project started, the electrical utility has installed several new meters.

The gas meter has not been replaced.

Date: date of the observation

Time: time of the observation in Eastern Standard Time

Meter In kWh: consumed electrical grid energy in kilowatt-hours

Meter Out kWh: curtailed energy sent to grid in kWh

Tesla Out kWh: energy consumed by the Tesla Model 3

Generated kWh: energy harvested by the solar array

Gas Meter: gas meter reading in cubic meters

Mean Temp C: local weather office mean temperature in Centigrade for the 24-hour day

Max Temp C: local weather office max temperature in Centigrade for the 24-hour day.

Weather: sky conditions during the generation day

Peak Watts: peak power for the day as read from the Outback MX-60

Minutes in Daylight: number of minutes of daylight for the day

Notes: any special information of interest

There are no data included that are calculations. Every number is a primary datum read from meters or published by the local weather office.

Copyright

The data is copyright of The Ravina Project. All we ask from the data users is that we be given a citation or the like in any papers that use our data.

"If we knew what we were doing, it would not be called research."
- A. Einstein

Project Directors

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Friends of the Ravina Project

Ben Rodgers B.A., M.A.,
NABCEP Certified Solar PV Installer™
Designer of our sun altitude compensating, solar array structure