

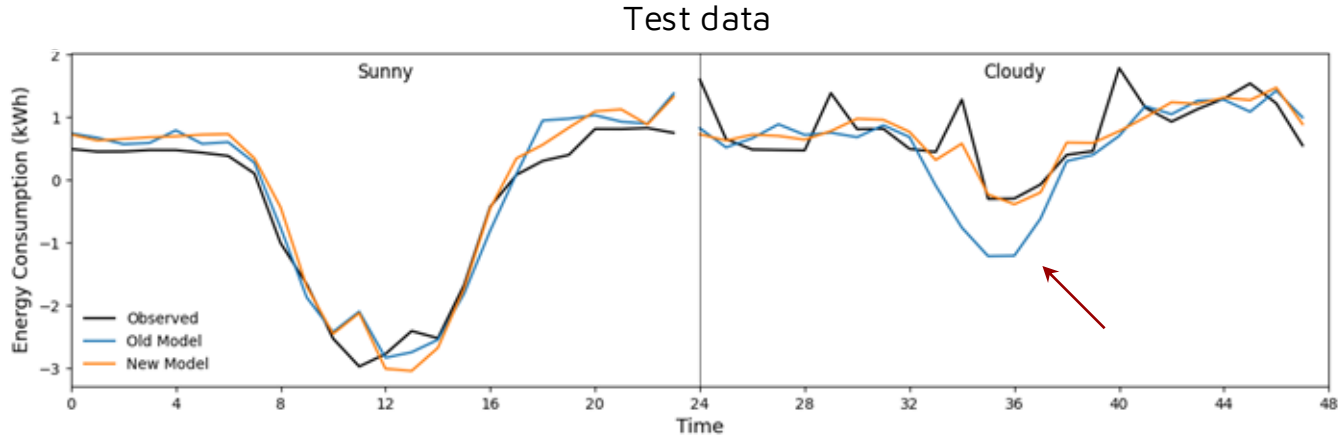


TAC Annual Review
OpenDSM

The current activity of the project, including releases, adoption, and committer/contribution growth and diversity.

- [Releases:](#)
 - 1.2.7
- Most contributions from Recurve, Two outside contributors
- Several organizations interested in OpenDSM beyond contributors:
 - National Renewable Energy Laboratory (NREL)
 - CLEAResult, DNV, Enerva, E Source, WattCarbon, Resilient Edge, Evergreen Energy
 - OpenEAC

- Completed working group initiative - Hourly model (accepted)
 - Automatic segmentation of day type (summer work day, fall weekend, etc)
 - Adds solar irradiance for solar PV generation buildings
 - Adaptive downweighting of outliers during model fit for each building
 - 5x faster than previous hourly model
 - Working group attendees peaked at ~50, regularly 20
 - Working group currently on hiatus



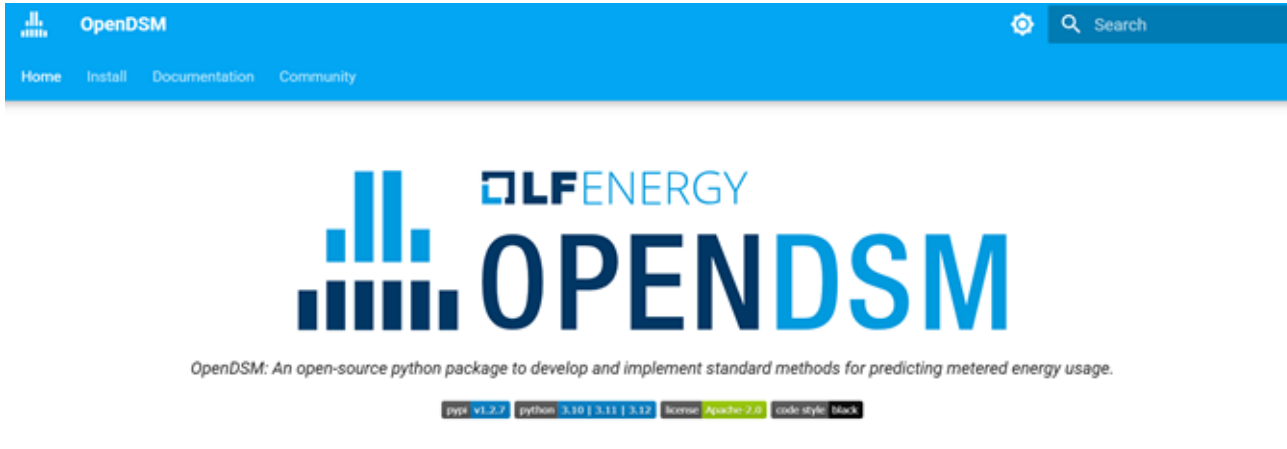
Old model:
sunny

Good on sunny days because majority of training data is sunny

New model:

Good on both sunny and cloudy days

New comprehensive website: opensm.energy





OpenDSM (formerly OpenEEMeter) is an open-source library ([source code](#)) used to measure the impacts of demand-side programs by using historical data to fit models and then create predictions (counterfactuals) to compare to post-intervention, observed energy usage.

The current activity of the project, including releases, adoption, and committer/contribution growth and diversity.

While models and documentation have been improving

- Scale of use continues to grow and is stepping outside of just "performance" based programs
 - In 2024-2028, CA energy efficiency programs must be measured where "feasible or cost effective"
 - TECH Clean California Best Practices Report: OpenDSM is foundational although not explicitly called out
 - Upper Peninsula Power Company (UPPCO, Michigan) measured savings pilot in early stages
 - Utilized in various programs in the western United States that cannot be disclosed
- Performance-based regulations are back in vogue and open source is frequently a component of that

Assessment of whether the project is fulfilling the requirements for the project to remain at its current stage [incubation], or be considered for a different stage

- Demonstrate growth in the project's community, including
 - Growth in the number of commits to the project, number of project committers, and organizational diversity of contributions and committers (29 unique comitters, 3 + organizations). 
 - Production or planned production use of the project by at least two independent end users which, in the TAC's judgment, are of adequate quality and scope. 
- Technical Governance of the project is operational, as measured by:
 - A Technical Steering Committee with at least 5 members and a chairperson elected by the members, holding regular open meetings. [Have 5 members, TS acting as chair]
 - Achievement of the OpenSSF Best Practice badge at the 'Silver' Level (87%)

Assessment of whether the project is fulfilling the requirements for the project to remain at its current stage [incubation], or be considered for a different stage

- Development of a growth plan, to be done in conjunction with their project mentor(s) at the TAC. This plan should address the following points: [-]
 - Since these metrics can vary significantly depending on the type, scope, and size of a project, the TAC has final judgment over the level of activity that is adequate to meet these criteria.
 - Release plans for the next 18 months.
 - Target end-users.
 - Identification of any regulatory or standards body requirements for deployment, and plans for implementation.
 - Plans for growth of project contributors and committers to support the growth plan.
 - Identification of any infrastructure resources needed to fulfill the growth plan.
- Presentation to the TAC of the project's growth, technical governance, and growth plan. [-]
- Receive the affirmative majority vote of the TAC and Governing Board [-]

Feedback on its experience as an LF Energy project, including benefits from being an LF Energy project and areas that the TAC and LFE staff can better support the project.

- Experience as an LF Energy project has been positive.
 - Support in explaining open-source and its value to our industry
 - Provides reference point of "acceptance" for the market
 - Provides access point for the industry from a trusted source
 - Policy positioning for open-source transparency
 - Help with the website (domain, hosting videos, cookies, etc)