



TAC Annual Review
OpenDSM

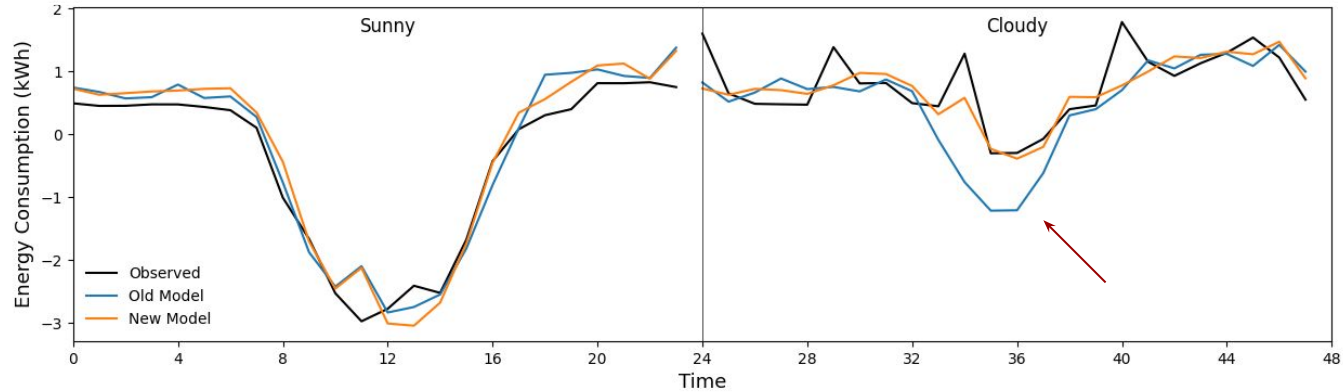
The current activity of the project, including releases, adoption, and committer/contribution growth and diversity.

- Rename/release of OpenDSM has been completed
 - New repository structure
- [Releases](#):
 - 1.0.0
- Most contributions from Recurve, three outside contributors (WattCarbon, Carbon Co-op)
- Several organizations interested in OpenDSM beyond contributors:
 - National Renewable Energy Laboratory (NREL)
 - CLEAResult
 - Enerva
 - E Source
 - Used in OpenEAC

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- One ongoing working group initiative (Hourly model)
 - 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
 - Report to be submitted to the Working Group for model acceptance
 - Working Group attendees peaked at ~50, regularly 20. Great ideas/feedback

Test data



Old model: Good on sunny days because majority of training data is sunny

New model: Good on both sunny and cloudy days

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

While models 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"
 - Inflation Reduction Act measured pathway spanned 10 states with either mandates/requests for measured proposals/pilots (CA, WI, MI, FL, GA, KS, MT, AZ, MN, VA)
 - OpenEEmeter was the foundation for predictive analytics in an "Electrification Value Stream Analysis" providing essential actionable intelligence for program optimization on the potential bill impacts of installing a heat pump for space heating or water heating

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While models have been improving

- OpenDSM continues gaining recognition as a standard
 - New Jersey BPU reviewed and approved OpenEEmeter as a standard for "measured programs" in their Technical Reference Manual
 - U.S. Department of Energy had NREL review and test OpenEEmeter as the standard for the Inflation Reduction Act "measured" pathway for residential rebates
- Code for complementary applications - for comparison groups and demand response are accelerating

OPENDSM Status

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 [\[- \]](#)

OPENDSM Status

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
 - Other potential collaborating projects
 - New branding/website for OpenDSM look amazing
- **Looking forward to**
 - Seminar on the new hourly model when it comes out
 - Investigating utilization and connecting with OpenSynth