

New Project Proposal

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I. General information

Introduction

This policy sets forth the proposal process for projects to be accepted into LF Energy. The process is the same for both existing projects which seek to move into LF Energy and new projects to be formed within LF Energy.

All projects are assumed to start at Incubator status unless the TAC has verified that stage advancement requirements have been met. Please note that all projects must complete the acceptance criteria before it can be considered by the TAC.

Incubation Project Proposal Requirements

Projects must be formally proposed by answering the following questions and sending by email to tac@lists.lfenergy.org. Project proposals submitted to LF Energy should provide the following information to the best of their ability:

General information:

- Name of project – **Battery Data Alliance**
- Is the project's name new or an existing name? **New**
- Project description (what it does, why it is valuable, origin and history)
 - The platform and open source toolkit that will accelerate development of battery software
 - Our goal is to bring battery companies to work together on unifying how batteries are handled in software. Today, each company is wasting their time implementing battery data schemas, integrations/conversions, typical calculations, etc. We

believe that an open source tool should exist to enable researchers and engineers to focus on bringing more innovative solutions to market instead of each organization redoing the same work.

- Origin /History: It all started when Gabe and Amplabs started working on open source tools for the battery community. Nicolas met Gabe in the community calls and they started working on different small projects including a battery data schema mapping utility. While working, more people joined including Valentin from PyBaMM/IonWorks to help define a common interface between simulation and testing. By partnering up with LF Energy, we will be able to make a significant push to onboard this community of bigger players and contribute to the growing battery market.
- Project lead
 - **Gabe Hege, Nicolas Jamal**
- Project financial sponsor organization(s)
 - **N/A**
- Names of other key contributing individuals and organizations
 - **AmpLabs, Dox Technologies, IonWorks**
- Proposed Technical Steering Meeting (TSC) members
 - Gabe Hege
 - Nicolas Jamal
 - Valentin Sulzer
- Existing community links:
 - <https://github.com/amplabs-ai/amplabs>
 - <https://www.amplabs.ai/open-source>, <https://amplabs.readthedocs.io/en/latest/>
 - <https://battery-street.slack.com/archives/C03K1F6BGH4>
 - <https://github.com/amplabs-ai/amplabs/discussions/33>
 - social media accounts
- Project security plan
 - **Validate against security platforms**
- Link to code base
 - <https://github.com/amplabs-ai/amplabs>
 - <https://github.com/amplabs-ai/schema-mapping>
 - <https://github.com/amplabs-ai/ampcloud-service>

Open source status:

- Please describe the project's license. **Apache-2.0**
- Is the project's code available now?
 - Is the code publicly posted? On GitHub or elsewhere? **Yes on Github**
- Does this project have ongoing public (or private) technical meetings? **Yes, Tuesday Technical Meeting, Thursday End-User Meeting**
- Do this project's community venues have a code of conduct? If so, what is it? **No**

- Describe the project's leadership team and decision-making process. **Small group consensus, with regular community feedback**
- Does this project have public governance (more than just one organization)? **No**
- Does this project have a development schedule and/or release schedule? **No**
- Does this project have dependencies on other open source projects? Which ones? **Apache Echarts, Postgres, Flask, Docker**
- Describe the project's documentation. **Simple, getting started guides, readthedocs**
- Describe any trademarks associated with the project.

Project status:

- Do you have a project roadmap? please attach [Are this project's roadmap and meeting minutes public posted?]
 - **Battery Fundamentals**
 - Basic Tooling
 - Visualization
 - Schema Definitions
 - Battery Studio – Consolidate Battery Tools
 - **Data and Analytics Plugins**
 - Data Connector Library
 - Analytics Library
 - **Advanced Features**
 - Material Simulation Modeling
 - Digital Twin Templates
 - Live Field Data Collection
- Does this project have a legal entity and/or registered trademarks? **No**
- Has this project been announced or promoted in any press? **No**
- Does this project compete with other open source projects or commercial products? **Yes**

Project value:

- Why would this project be a good candidate for inclusion in LF Energy?
 - **Battery Data is core to the clean energy market. This project will help standardize formats and provide out of the box calculations / algorithms**
- Provide a statement on alignment with the mission in the [LF Energy charter](#).
 - **Our platform abstracts infrastructure and automates support for battery data management and analytics**
- What specific need does this project address?
 - **Provides quality tools to facilitate battery analysis**
- Describe how this project impacts the energy industry.
 - **Standardizing battery data allows researchers to make quicker decisions and analysis**
- Describe how this project intersects with other LF Energy projects.

- **This project can integrate with any energy data source. Today it focuses on energy storage. Work in the Vehicle-to-Grid would be a natural potential overlap here.**
- Who are the potential benefactors of this project?
 - **Battery Researchers/Labs**
 - **Battery Manufacturers**
 - **Battery Users/Applications**
- What other organizations in the world should be interested in this project?
 - University & Academic Research Labs
 - Battery Suppliers
 - Battery Manufacturers

Project needs:

- How would this project benefit from inclusion in LF Energy?
 - **Benefit from the network and expanding our community**
- Please describe any infrastructure needs or requests (e.g., web hosting).
 - **Cloud Infrastructure (Compute, Storage, Network)**
- Plan for achieving the next maturity level (Incubation -> Early Adoption -> Graduated).
 - **Incubation**
 - **Growing Membership from Battery Data Startups**

II. Project Acceptance Process

- Projects are required to present their proposal at an LF Energy Technical Advisory Committee (TAC) meeting.
- The TAC may ask for changes to bring the project into better alignment with LF Energy, such as adding a governance document to a repository or adopting a Code of Conduct.
- The TAC agrees on an evaluation of the project proposal via a 2/3 supermajority vote, excluding abstentions
- The TAC provides the project assessment to the LF Energy Board for project acceptance approval.
- In case of Board approval, the proposal document will be finalized as a project charter. This charter document must be included in the project's main repository.
- The TAC will determine the appropriate initial stage for the project based on the evidence submitted. New projects can apply for admission at the Incubator or Early Adoption stage via the review process.

Additional requirements for projects applying at the Early Adoption stage

- Growth plan

III. Acceptance & Expectations

- All projects may attend TAC meetings and contribute work regardless of their stage.
- Incubation projects will be featured on the LF Energy projects page.
- All trademarks for **Incubator**, Early Adoption, Graduated, and Emeritus projects are retained by LF Energy.