# LF Energy

✅ Welcome to the LF Energy Wiki. Here you can access information with a cross project focus. For individual projects, follow the links below. You will need a Linux Foundation ID (created at https://identity.linuxfoundation.org/) to contribute. In the upper right of this page, select Log In to contribute.

LF Energy is a Linux Foundation project that provides a vendor-neutral home focused on building shared open source infrastructure to deliver unprecedented innovation in renewable energy, power electronics, electric mobility, and more.

LF Energy activities are driven from the LF Energy Guiding Principles, created and adopted by both the Technical Advisory Council and Governing Board.

## Get Involved!

Ask questions, email operations@lfenergy.org

Join the mailing lists

Follow us on Twitter and LinkedIn

## Resources

Presentation Template

LF Energy's technical projects are organized underneath the Technical Advisory Council in order to create specific software or services. Project chairs or leaders report up to the TAC, and projects at the Early Adoption or Graduated maturity level vote on TAC business.

Projects are distinct from technical working groups, which meet to develop or explore specific functional areas, or Special Interest Groups, who meet regularly for discussions but do not have a specific charter.

## Current Projects

Below is the listing of current projects hosted by the LF Energy Foundation. Click the logo to learn more about each project and scroll down on the pop-up to see additional details.

## Working Groups

Technical working groups are organized underneath the Technical Advisory Council in order to perform detailed work in a specific area. Working groups generally work on a specific aspect of the functional architecture. They may have a specific deliverable, and can make suggestions on existing projects or propose projects.

Working group chairs or leaders report up to the TAC, but do not vote on TAC business.

Working groups are distinct from Projects, which create software or services, and Special Interest Groups, which meet regularly for discussions but do not have a specific charter.

**To join any of the technical working groups, please click the mailing list link below and visit their corresponding wiki page.**

| Name | Description | Wiki | Mailing List |
| --- | --- | --- | --- |
| Full Architecture Working Group | Architecture standing committee to develop the overall architecture for LF Energy | Full Architecture WG Wiki Page | Full Architecture WG Mailing List |
| Functional Architecture Working Group | Working group to create a common functional architecture defining a fit-for-the-future power grid and creating a common understanding of required functional capabilities. | Functional Architecture WG Wiki Page | Functional Architecture WG Mailing List |
| Data Architecture Working Group | Working group on Data Architecture | Data Architecture WG Wiki Page | Data Architecture WG Mailing List |

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| Power System Network Operations | Defining an open source strategy and approach to the power system network operations of the future | [Power System Network Operations WG Wiki Page](#) | |
| Security | LF Energy - Special Interest Group on Security | [Security Wiki Page](#) | [Security Mailing List](#) |
| Architecture: Infrastructure & Cloud | Architecture: Infrastructure & Cloud special interest group | [Architecture Infrastructure & Cloud Wiki Page](#) | [Architecture Infrastructure & Cloud Mailing List](#) |

# Special Interest Groups

**To join any of the special interest groups, please click the mailing list link below and visit their corresponding wiki page.**

| Name | Description |
|---|---|
| [Digital Substation Automation Systems (DSAS)](#) | The design of the new DSAS requires a higher level of modularity, interoperability, and scalability compared to previous generations. Open source collaboration is an essential part of meeting those requirements in a cost-efficient way. |
| [Asset Monitoring](#) | RTE initiated an internal project aiming at replacing an aging asset monitoring system and paving the way for a shift from preventive maintenance to predictive maintenance. |
| [Digital Twin](#) | Validate an IoT approach that is compatible with a Blockchain architecture and running on the edge of a distributed cloud environment for a smart energy "System of Systems" |
| [Microgrids AC/DC /Hybrid](#) | The Microgrid is in a community-building exercise to identify language and approaches. Right now we are looking at a number of open source implementations to understand the pros, cons, and various use-cases. Come join this group! We are open to new participants. |
| [IoT](#) | LF Energy IoT and Energy |
| [Supply-Chain Security/DBoM](#) | This SIG is looking to stand-up a proof of concept for supply-chain attestation. Broad group of vendors, suppliers, OEMs, security folks, and utilities. |
| [E-Mobility SIG](#) | This is SIG is just starting November 10th, 2020...come help us define the future of the open source parts of e-mobility and V2G |

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