Technical Advisory Council (TAC) Overview

2025

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LF Energy Foundation Overview and Governance

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What is LF Energy?

LF Energy is the community for digital experts to collaborate on open industrial-grade technology platforms and agile standards that accelerate the energy transition.

We are part of the Linux Foundation, the largest shared technology investment in the world.
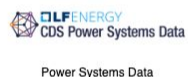
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Projects

Project Landscape

Transmission

Modeling & Simulation
- **POWSYBL** — Transmission Grid Modeling Engine
- **Dynawo** — Dynamic Simulation Engine
- **GridFM** — AI Foundation Models for the Grid
- **OpenSTEF** — Short-term Forecasting
- **grid2op** — Agent Learning Framework

Operations
- **OPERATORFABRIC** — Control Center Event Visualization and Management
- **TROLIE** — Transmission Line Ratings Data Exchange
- **CDS Power Systems Data** — Power Systems Data
- **SHAPESHIFTER** — Aggregator Flexibility

Grid Automation
- **CoMPAS** — IEC 61850 Engineering
- **SEAPATH** — Digital Substation Hypervisor

Data / IoT
- **FLEDGE POWER** — Multi-protocol Gateway
- **GXF** — IoT Device Management
- **RTDIP** — Data Pipelines
- **CDS Registration** — Data Connectivity

Distribution

Modeling & Simulation
- **POWER GRID MODEL** — Distribution Grid Modeling (EU)
- **OpenSTEF** — Short-term Forecasting
- **ARRAS** — Distribution Grid Modeling (USA)
- **GRID CAPACITY MAP** — Grid Capacity Analysis and Visualization
- **GridFM** — AI Foundation Models for the Grid
- **FIDO Power** — Modeling Data Interoperability
- **grid2op** — Agent Learning Framework

Operations
- **OPERATORFABRIC** — Control Center Event Visualization and Management
- **SOGNO** — Distribution Management System
- **openLEADR** — OpenADR Implementation
- **SHAPESHIFTER** — Aggregator Flexibility
- **POWER GRID MODEL** — Distribution Grid Modeling Engine

Grid Automation
- **CoMPAS** — IEC 61850 Engineering
- **SEAPATH** — Digital Substation Hypervisor

Data / IoT
- **FLEDGE POWER** — Multi-protocol Gateway
- **GXF** — IoT Device Management
- **RTDIP** — Data Pipelines
- **CDS Customer Data** — Meter Consumption Data

Grid Edge
- **CDS Customer Data** — Meter Consumption Data
- **OpenSynth** — Synthetic Grid Data
- **OPENDSM** — Measurement and Verification
- **GEISA** — Grid Edge Application Interoperability

Behind-the-Meter

Flexibility
- **FlexMeasures** — Energy Management System
- **openLEADR** — OpenADR Implementation
- **ORES** — Plug and Play DERs
- **Hyphae** — DC Microgrids

EV Charging
- **CitrineOS** — Charging Station Management System
- **EVerest** — EV Charger Software

Rebates & Incentives
- **NODE COLLECTIVE** — Rebates & Incentives Database

Data / IoT
- **FLEDGE POWER** — Multi-protocol Gateway
- **GXF** — IoT Device Management
- **RTDIP** — Data Pipelines
- **CDS Registration** — Data Connectivity

Carbon Accounting
- **SCDH** — Scope 3 Carbon Emissions

Batteries
- **Battery Data Alliance** — Battery Data and Software Standards

Extreme Events
- **covXtreme** — Extreme Event Modeling
- **GRIDVANTAGE** — Extreme Weather Event Planning

Members

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Strategic (6)

alliander · Google · Hydro Québec · Microsoft · Rte Le réseau de transport d'électricité · Shell

General (24)

AETHEROS · Artelys OPTIMIZATION SOLUTIONS · aspentech · AVEVA · chargebyte · ECOFLOW · ENERGINET · FUTUREWEI Technologies · GE · HITACHI

LUTECH · MISO · PIONIX · RECURVE · Red Hat · Savoir-faire LINUX · REPLY SENSE · SOUTHERN CALIFORNIA EDISON Energy for What's Ahead · Statnett · TenneT

Utilidata · UTILITYAPI · VATTENFALL · WELOTEC

Associate (43)

Carbon Co-op · center for denmark · CRESYM · TUDelft · EDSN · TU/e · Elaadnl · EPRI ELECTRIC POWER RESEARCH INSTITUTE · ENACCESS · ENERGY FOUNDATION

ENERGY IOT · E · EnergyTag · entsoe · EPFL · FIWARE · Fraunhofer · FAU FRIEDRICH-ALEXANDER UNIVERSITÄT ERLANGEN-NÜRNBERG · INESCTEC · IOWA STATE UNIVERSITY

KTH VETENSKAP OCH KONST · HOCHSCHULE LUZERN Lucerne University of Applied Sciences and Arts · M-RETS · NREL · OPEN CLIMATE FIX · OPENEARTH FOUNDATION · OET OPEN ENERGY TRANSITION · openADR ALLIANCE · Open:UK · OwnTech Fondation

PECAN STREET · Project Haystack · RWTH AACHEN UNIVERSITY · Stanford · The Alan Turing Institute · the Energy Coalition · TRUSTED COMPUTING GROUP · UNIVERSITI TEKNOLOGI MARA · UNIKASSEL VERSITÄT · VANDERBILT UNIVERSITY

VF VOLTA FOUNDATION · WASHINGTON STATE UNIVERSITY · WattTime

We're a nonprofit, but not separately incorporated

- The LF Energy Foundation is part of the [the Linux Foundation](#) and is not a separate legal entity
- Therefore, the LF Energy Foundation Governing Board is not a corporate board of directors, and is not subject to corporate law statutes (e.g., those that govern fiduciary duties and how corporate boards of directors must operate)
- The powers and duties of the Governing Board are set forth in the [LF Energy Foundation Charter](#)

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Governance at a Glance

Fiduciary Governance - Membership driven

Technical Governance - Open to all

Governing Board

Technical Advisory Council (TAC)

Budget Committee

LF Energy Standards and Specifications (LFESS)
Steering Committee

Technical Projects

Working Groups/SIGs

Marketing Advisory Committee (MAC)

Standards Working Groups

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TAC Responsibilities
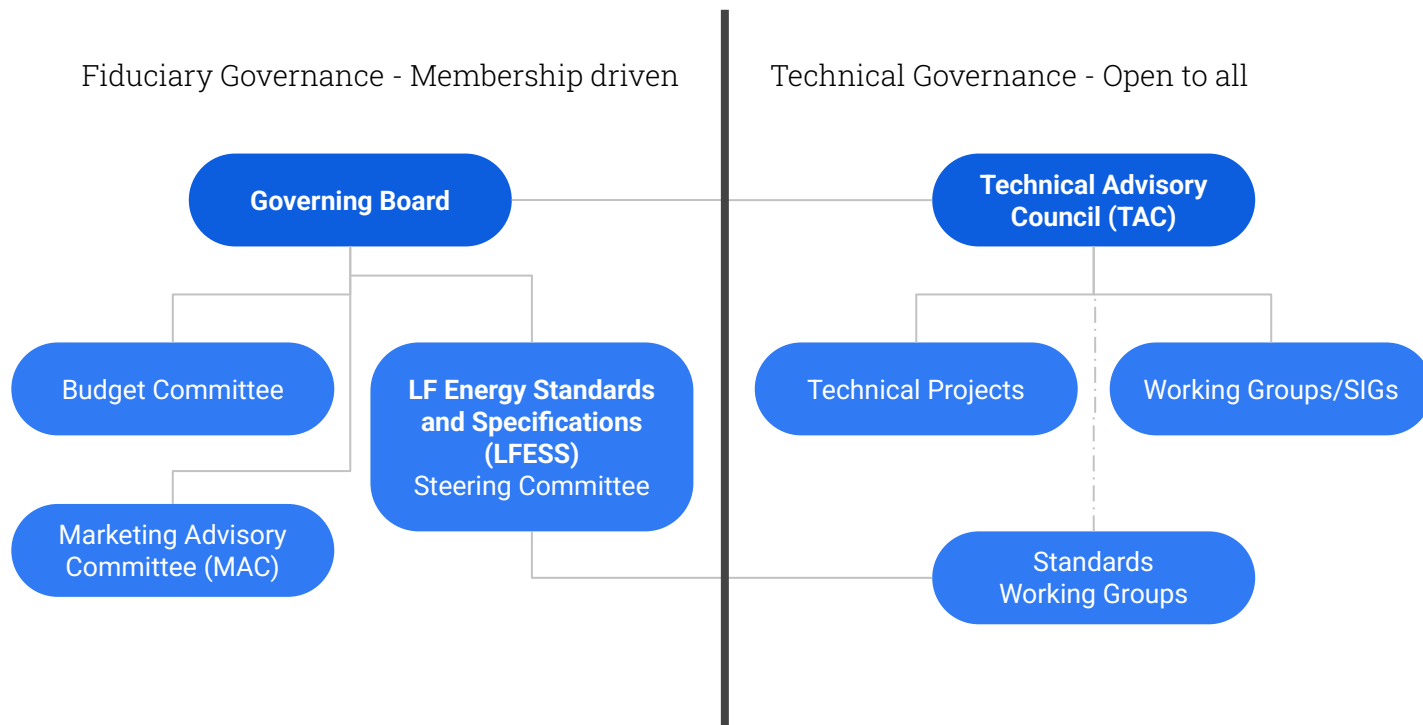
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TAC Responsibilities

The TAC's responsibilities include:

- Setting an overall technical vision for the LF Energy Foundation
- Approving new projects and working groups;
- Overseeing the Project Lifecycle;
- Enabling collaboration between projects and working groups;
- Making recommendations to the Budget Committee for any resource needs;
- Voting on other decisions that come before the TAC.

Additional responsibilities are described in Section 8 of the LF Energy Foundation Charter.

What the TAC is NOT responsible for

- The TAC does **not** manage the day-to-day activities and operations of hosted projects and working groups, such as committer rights, release schedules, and roadmaps.
- The TAC is **not** responsible for overseeing day-to-day operations of LF Energy Foundation. This is the responsibility of the foundation staff.
- The TAC does **not** directly manage the overall budget for the LF Energy Foundation. The TAC makes resource recommendations to the Budget Committee and Governing Board, and provides feedback on the use of those resources.

TAC Operations

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TAC Composition

- The TAC voting members consist of:

    - One representative appointed from each Strategic member; and
    - One representative appointed by the TSC of each project

- See Section 8(b) of the LF Energy Foundation Charter for more information about composition.

- You can change your representative at any time by making a request at members.lfenergy.org.

Technical Advisory Council (TAC)
voting representatives

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Antonello Monti
Chair
Professor
RWTH Aachen University

Art Pope
Member of Technical Staff
Google LLC

Boris DOLLEY
Director of OSPO and Sustainable IT Strategy
RTE (Reseau de Transport dElectricite)

Bryce Bartmann
Chief Digital Technology Advisor
Shell International Exploration & Production, Inc.

Clément Bouvier
Software engineer
RTE (Reseau de Transport dElectricite)

Jonas van den Bogaard
Vice Chair
Open Source Office Lead
Alliander

Maarten Mulder
PO IoT Field Device Platforms
Alliander

Moïse K. Kameni
Entreprise Architect and Head of Open Source Program Office
Hydro-Québec

Peter Mitri
Individual - No Account

Travis Sikes
Data Science Manager
Recurve

TAC Chairperson

Annually in December, the TAC will elect a chairperson to serve for the subsequent year. Duties of the TAC Chairperson include:

- Leading the strategy for setting an overall technical vision for the LF Energy Foundation
- Preparing the agenda for and leading TAC meetings, with the support of the foundation staff (generally meets with the staff on a regular basis to align on topics and priorities)
- Serving as a voting member of the Governing Board to represent the TAC and larger technical communities.
- Be a spokesperson for the TAC and larger technical community, as needed

See Section 8(a) of the LF Energy Foundation Charter for more information about the chairperson role.

TAC Meetings

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Meeting Cadence

- The TAC has virtual meetings, generally monthly on the second Tuesday of the month. **All meetings are public meetings unless specified otherwise.**

- Format for the meetings generally include short updates, and up to three larger topics (such as an annual review of a project/working group, new project/working group proposal, larger discussion item, or special presentation)
  - Voting will often take place at each meeting
  - If you cannot attend a meeting and wish to have someone else represent you, please contact the foundation staff at members.lfenergy.org.

- Additionally, the TAC may have one hybrid Leadership Meetings session per year.
  - Governing Board representatives and a representative from each General Member are invited to Strategy Sessions.

- In rare and exceptional circumstances (e.g., in an emergency situation), an additional ad hoc special meeting of the TAC may be convened.
  - To request a special meeting, please email your request to the Foundation Staff and TAC Chair, and they will decide whether a special meeting is necessary or the proposed agenda item can be discussed by email or at the next regular meeting.

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How to propose an agenda item

- Agenda for TAC meetings are managed at
  https://github.com/orgs/lf-energy/projects/2
- Propose a topic for a TAC meeting at
  https://github.com/lf-energy/tac/issues/new/choose
- Please submit your proposed agenda item at least 7 days prior to the meeting.
- Please be patient. TAC meeting agendas are often quite full, and the length of the meeting only allows the time for two larger topics per meeting, so if your topic is more than a short topic it may not scheduled for the next meeting.

Proposing an agenda item (continued)

- If we cannot accommodate your request in the upcoming meeting we may:

    - Wait until the following meeting to discuss the topic
    - Call a special meeting to discuss your topic, or
    - Refer the topic to the appropriate committee or task force of the TAC

- We may ask you to provide slides 3 days before the meeting.

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TAC Materials

- Agendas for TAC meetings will be made available the day before the scheduled meeting
- Past meeting notes can be found here.
- No meeting of the TAC is recorded unless the TAC provides explicit consent to do so.

Discussion Channels

Relevant Mailing Lists
- TAC Public List: tac@lists.lfenergy.org
- TAC Private List: tac-voting@lists.lfenergy.org
  - This list is ONLY for sensitive topics and voting
- Project and Working Group Leads: technical-project-leads@lists.lfenergy.org

Slack Channel
- You can [join LF Energy slack here](#).
- To join the TAC slack channel, make a request at members.lfenergy.org.

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Policies and Other Resources

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Important LF Energy Foundation Policies and Resources

- [LF Energy Foundation Charter](#)
- [Linux Foundation Antitrust Policy](#)
- [Foundation GitHub repository](#) with many other public facing policies and materials including…
  - [Elections Process](#)
  - [LF Energy Foundation hosted project charters](#), which define each project's intellectual property and licensing policies.
- [LF Energy Landscape](#)
- [High Level Overview](#)

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LF Energy staff

- [Alex Thornton](), LF Energy Executive Director
- [Dan Brown](), Marketing Director
- [John Mertic](), Program Director
- [Yarille Ortiz](), Sr. Project Coordinator

Support requests for the staff can be made at [support.lfenergy.org]().

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LFX Organization Dashboard

[LFX Organization Dashboard](#) provides access to key membership materials, including…
- Member contacts, which you can change at any time (look under 'Users' > and then under the 'Key People' tab)
- Membership details (look under 'Membership' > 'LF Energy Foundation'), including…
  - Membership Overview Deck and High Level Overview Deck (look under the 'Resources' tab)
  - Your fully executed membership agreement (look under the 'Membership' tab)
  - Details on how to leverage membership benefits (look under the 'Benefits' tab)
  - Insights on contributors from your organization (look under the 'Project Contributors' tab)

ACTION: Request access to LFX Organizational Dashboard [here](#).

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Who's Who in the LF Energy Foundation

- [LF Energy Foundation Members](#)
- Staff: [LF Energy Foundation Staff](#), [Linux Foundation Leadership](#)
- [Governing Board Members](#)
- [Technical Advisory Council Members](#)
- [LF Energy Project and Working Group Leads](#)

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