

Technical Advisory Council (TAC) Meeting

08 October 2024

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Meeting information

- Meeting to begin at 5:00 pm Central European Summer Time
- Join the meeting at the link in your calendar in [LFX Individual Dashboard](#)
- Any problems with connectivity, you can contact John Mertic from the Linux Foundation at +1 234-738-4571
- Previous TAC Meeting notes, deck, and recording, at <https://wiki.lfenergy.org/display/HOME/Technical+Advisory+Council#TechnicalAdvisoryCouncil-MeetingMinutes>

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Agenda

All Times in Central European Time Zone

- 5:00 pm - 5:10 pm - Opening and General Updates
 - TAC member updates and project review date reminders
 - General updates
 - Project Security Focus updates
 - TAC Evolution Plan Update
- 5:10 pm - 5:30 pm - GEISA (Grid Edge Interoperability & Security Alliance) Presentation
- 5:30 pm - 6:20 pm - SIG Updates
- 6:20 pm - 6:25 pm - Marketing/PR/Events updates
- 6:25 pm - 6:30 pm - Closing and Next Meeting

Opening and General Updates

5:00 pm - 5:10 pm

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TAC Voting Members

You can update your headshot/title at openprofile.dev.



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)



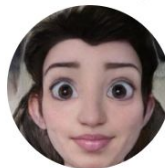
Bryce Bartmann
Chief Digital
Technology Advisor
Shell International
Exploration &
Production, Inc.



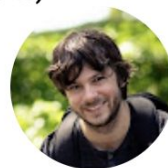
**Jonas van den
Bogaard**
Open Source Office
Lead
Alliander



Maarten Mulder
PO IoT Field Device
Platforms
Alliander



Sophie Frasnado
Software developer
RTE (Reseau de
Transport
dElectricite)



Travis Sikes
Data Science
Manager
Recurve



Yixing Xu
Senior Program
Manager, Energy
Strategy
Microsoft
Corporation

LF Energy Projects

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SIG - Digital Substations (3)



SIG - EV Charging (2)



SIG - Grid Operations (8)



SIG - Grid Simulation and Modeling (8)



SIG - Data Standards and Tooling (6)



LF Energy Hosted Project Leads

Project	Project Lead(s)
Arras	David Chassin
Battery Data Alliance	Gabe Hege, AMPLabs
CitrineOS	Thana Paris, S44
CoMPAS	Pascal Wilbrink Alliander & Sander Jansen, Alliander (TAC Representative)
covXtreme	Sachin Bhakar, Shell
Dynawo	Marco Chiaramello, Benoît Jeanson, RTE
EVERest	Marco Möller, PIONIX
FledgePOWER	Romain Lebrun-Thauront, RTE
FlexMeasures	Nicolas Höning, Seita Energy Flexibility B.V.
Grid Capacity Map	Harald Klomp, Vattenfall
GRIP	Alyona Teybar, MASc

Project	Project Lead(s)
GXF	Maarten Mulder, Alliander
Hyphae	Sophie Frasnedo
InterConnect SIF	Milenko Tomic, VizLore Labs
NODE Collective	DeAndrea Salvador
OneNet Framework	
OpenEEmeter	Travis Sikes, Recurve
OpenFIDO	David Chassin, SLAC
OpenGEH	Nicolas Bernhardt, Energet
OpenLEADR	Hugo van de Pol, Arila Barnes
OpenSTEF	Frank Kreuwel, Alliander
OpenSynth	Gus Chadney, Centre for Net Zero

Project & Working Group Leads

Project	Project Lead(s)
OperatorFabric	Frederic DIDIER, RTE
Power Grid Model	Tony Xiang, Alliander
PowSyBI	Anne Tilloy, RTE
Real Time Data Ingestion Platform (RTDIP)	Bryce Bartmann, Shell
SC Decarbonisation Hub	
SEAPATH	Éloi Bail, Savoir-faire Linux
Shapeshifter	Robben Riksen, Alliander
SOGNO	Antonello Monti, RWTH Aachen University (TAC Representative) & Fito Galeano, RWTH Aachen University

Working Group	Work Group Lead(s)
AI Working Group	Alexandre Pariost, The Linux Foundation
Archimate Working Group	Jonas van den Bogaard, Alliander
ORES (Open Renewable Energy Systems)	Chris Xie, Futurewei

New Project Review Cycle

Grid Operations SIG - Mtgs every other month, 3rd Wednesday				
Project	Current Level	Initially Accepted	Last Review Date	Next Review Date
FlexMeasures	Incubation	2022-01-05	2023-11-28	2024-11-20
RTDIP	Sandbox	2024-06-04	2024-01-30	2025-01-15
SOGNO	Early Adoption	2021-03-11	2024-04-23	2025-03-19
Shapeshifter	Incubation	2021-10-04	2024-05-14	2025-05-21
FledgePower	Incubation	2021-02-16	2024-06-04	2025-05-21
OperatorFabric	Early Adoption	2019-04-30	2024-07-16	2025-07-16
OpenLEADR	Incubation	2021-08-03	2021-11-23	2025-09-17
GXF	Early Adoption	2020-02-04	2024-09-18	2025-09-17

EV Charging SIG - Monthly, 4th Wednesday				
Project	Current Level	Initially Accepted	Last Review Date	Next Review Date
CitrineOS	Sandbox	2023-11-28		2024-11-27
EVerest	Early Adoption	2021-10-12	2024-01-09	2025-01-22

Digital Substations - Cadence and reviews TBD				
Project	Current Level	Initially Accepted	Last Review Date	Next Review Date
CoMPAS	Incubation	2020-05-05	2024-06-25	2025-06-17
FledgePOWER	Incubation	2021-02-11	2024-06-04	2025-05-27
Seapath	Early Adoption	2020-10-06	2023-12-19	2024-12-10

New Project Review Cycle


Grid Simulation and Modeling - Mtgs every other month, 1st Wednesday				
Project	Current Level	Initially Accepted	Last Review Date	Next Review Date
PowSyBl	Early Adoption	2019-04-30	2023-11-28	2024-12-04
OpenSTEF	Incubation	2021-09-21	2023-11-07	2025-02-05
Power Grid Model	Sandbox	2023-02-07	2024-02-20	2025-02-05
covXtreme	Sandbox	2023-12-19		2025-04-02
Dynawo	Sandbox	2022-12-06	2024-01-30	2025-06-04
Arras	Sandbox	2022-07-12	2024-07-16	2025-09-03
Grid Capacity Map	Incubation	2021-04-27	2023-10-17	TBD
GRIP	Sandbox	2023-09-26		TBD

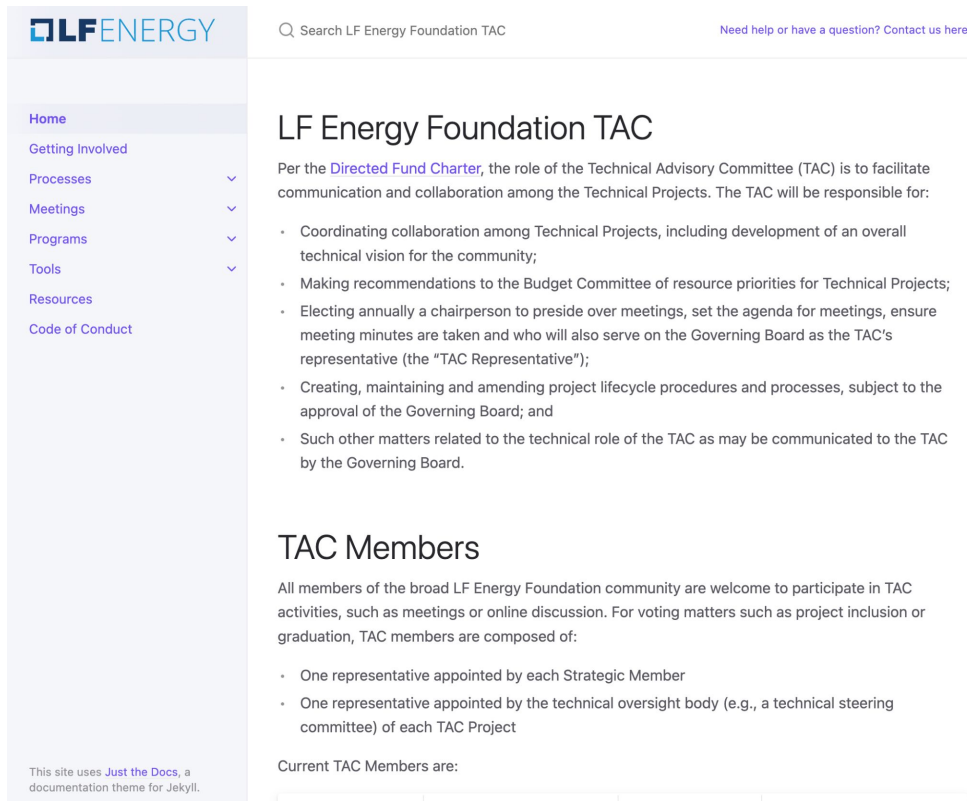
Data Standards and Tooling - Mtgs every other month, 2nd Thurs.				
Project	Current Level	Initially Accepted	Last Review Date	Next Review Date
OpenDSM	Incubation	2019-06-04	2024-09-17	2024-11-14
TROLIE	Working Group			2024-11-14
OpenSynth	Sandbox	2024-01-09		2025-01-09
Battery Data Alliance	Incubation	2023-09-05	2024-08-27	2025-07-10
SC Decarbonization Hub	Sandbox	2024-08-27		2025-09-11
CDSC	Working Group			TBD
Super Advanced Meter	Working Group			TBD

Projects in LF Onboarding

- [Grid Edge Interoperability & Security Alliance \(GEISA\)](#) - presenting today
- [GridCal](#) - working on rename and relicensing
- [python Emission Localization and Quantification \(pyELO\)](#)

New TAC Website

- We have finished the migration to tac.lfenergy.org

- Any changes can be made via PR at <https://github.com/lf-energy/tac/>
- Previous wiki pages will have links to redirect to the new pages.
- Questions/feedback - let us know!

A screenshot of the LF Energy Foundation TAC website. The page has a light blue header with the LF Energy logo and a search bar. A sidebar on the left contains a navigation menu with links to Home, Getting Involved, Processes, Meetings, Programs, Tools, Resources, and Code of Conduct. The main content area is titled 'LF Energy Foundation TAC' and contains a paragraph about the TAC's role, followed by a bulleted list of responsibilities. Below this is a section titled 'TAC Members' with a paragraph and another bulleted list. At the bottom, it says 'Current TAC Members are:' followed by a horizontal line.

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Q Search LF Energy Foundation TAC [Need help or have a question? Contact us here](#)

LF Energy Foundation TAC

Per the [Directed Fund Charter](#), the role of the Technical Advisory Committee (TAC) is to facilitate communication and collaboration among the Technical Projects. The TAC will be responsible for:

- Coordinating collaboration among Technical Projects, including development of an overall technical vision for the community;
- Making recommendations to the Budget Committee of resource priorities for Technical Projects;
- Electing annually a chairperson to preside over meetings, set the agenda for meetings, ensure meeting minutes are taken and who will also serve on the Governing Board as the TAC's representative (the "TAC Representative");
- Creating, maintaining and amending project lifecycle procedures and processes, subject to the approval of the Governing Board; and
- Such other matters related to the technical role of the TAC as may be communicated to the TAC by the Governing Board.

TAC Members

All members of the broad LF Energy Foundation community are welcome to participate in TAC activities, such as meetings or online discussion. For voting matters such as project inclusion or graduation, TAC members are composed of:

- One representative appointed by each Strategic Member
- One representative appointed by the technical oversight body (e.g., a technical steering committee) of each TAC Project

Current TAC Members are:

This site uses [Just the Docs](#), a documentation theme for Jekyll.

Grid Edge Interoperability & Security Alliance Presentation

5:10 pm - 5:30 pm



SIG Discussion / Updates

5:30 pm - 6:20 pm

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Insights from initial SIG launches

- All SIGs have launched; some SIGs are matured more than others
 - EV Charging fully self-managed (this is the goal)
 - Grid Operations, Grid Simulation and Modeling, Digital Substations are works in progress, needing leadership in place and the group to coalesce together.
 - Data Standards still finding an identity.
- Generally solid first 12 month goals
 - **ACTION: TAC should develop top level goals for all SIGs to compliment.**
- Model of Chair/Vice Chair generally being embraced.
 - Each term one year, Vice Chair becomes next Chair, new Vice Chair elected
- Review of annual review structure to ensure SIGs are executing on these consistently (and are ready to take on annual review management).
 - **ACTION: TAC to review**
- TAC needs to review liaison assignments relative to participation.
 - **ACTION: TAC to make assignments**
- Guidance needed on what voting representation is
 - SIG meetings are open to all, just like TSC/TAC meetings.
 - Only really matters for Chairperson / Vice Chair roles and any project lifecycle change recommendations to the TAC.
 - **ACTION: TAC to determine general guidance**

ACTION: Top level goals for SIGs

Generally seeing these common goals across the SIGs:

- Identifying gaps, including
 - Outside projects/groups to include
 - Topics/areas where there isn't an existing solution
- Improving collaboration between projects participating in the SIG
- Defining scope and non-scope for the SIG
- Determining how to effectively work together in the SIG

**DISCUSSION: Should the TAC establish these as 12 month goals for all SIGS?
Are there others that should be included?**

ACTION: Review annual review program structure

With the move of annual reviews to the SIGs, a few considerations have come up.

- Is the guidance at https://tac.lfenergy.org/process/review_cycle.html still relevant/sufficient? Are there changes that should be made?
- Can SIGs set additional criteria?
- For projects not yet assigned to a SIG or the SIG is not at a place to start doing annual reviews, should the TAC continue to do these?

DISCUSSION: TAC guidance on the above topics.

ACTION: TAC Liaison Assignments

The TAC Liaison is a representative from the Voting Members of the TAC that can escalate issues/concerns as well as recommend to the TAC projects that should be considered for a lifecycle stage change.

While SIGs can make recommendations for who the TAC Liaison should be, the TAC makes the final determinations. TAC Liaisons should be reviewed annually by the TAC.

- EV Charging - Anto
- Grid Operations - Boris
- Digital Substations - ???
- Grid Simulation and Modeling - Jonas
- Data Standards and Tooling - Travis
- AI - Bryce
- Archimate - Jonas

DISCUSSION: Make TAC Liaisons Assignments

ACTION: Defining SIG members

SIGs are entirely open, and welcome to anyone to participate in.

While SIGs are generally not decision making groups, there are two instances where clear guidance could be helpful:

- Leadership roles in the group (Chairperson, Vice Chairperson, Secretary)
- Driving consensus around recommending projects for lifecycle stage changes.

DISCUSSION: Review/approve recommendation.

RECOMMENDATION:

- Initially, the SIG Representatives will be a representative from each project participating in the SIG, along with the TAC Liaison.
 - Additional representatives can be added by a vote of the then current SIG Representatives.
- Leadership roles can be filled by SIG representatives with the approval of a quorum of SIG representatives
- Recommendations for lifecycle stage changes will generally be done by consensus in the meeting, but if the SIG Chairperson determines a consensus cannot be reached, a vote will be taken with each SIG Representative having a vote, along with the TAC Liaison.

Marketing/PR/Events Updates

6:20 pm - 6:25 pm

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LF Energy Summit 2024

- Attendees
 - 251 registered; 240 picked up their badge
- Content
 - 5 Keynotes
 - 34 Breakouts
 - 7 Lightning Talks
 - 9 Demos
 - 7 Meetups
 - 3 Workshops
- All [videos](#) and [photos](#) now live
- Blog posts have begun publishing recapping each session



Marketing and PR Updates

- Webinars
 - [CitrineOS webinar](#) took place Sept 26 (originally 28 Aug but postponed)
 - Looking for more webinars to fill out the rest of the year
- Content
 - BalticRCC/PowSyBl case study nearly finalized
 - emsys/PowSyBl case study nearly finalized
 - JEA/FledgePOWER case study in process
- [Event tracker](#) - please review and add any additional opportunities
- Use this [form](#) to submit any comms/marketing support requests
- See [media coverage spreadsheet](#) or [website](#) for recent articles

Upcoming Event CFPs

North America

- [ARPA-E Energy Innovation Summit](#) - March 17-19, 2025 - Washington, DC - Rolling submission deadline - email speakinginquiry@eventpowersupport.com to apply to speak
- [IEEE Conference on Technologies for Sustainability \(SusTech 2025\) - April 20-23, 2025 - Los Angeles - Submission deadline November 1](#)
- [Energy Thought Summit - May 19-22, 2025 - San Antonio, TX - Rolling submission deadline](#)
- [IEEE PES General Meeting - July 27-31, 2025 - Austin, TX - Submissions open October 7 and close November 11](#)
- [CIGRE - Sept 29-Oct 2, 2025 - Montreal, Quebec - Submission deadline November 27](#)

Europe

- [Climate Tech Show - November 27-28, 2024, London - Rolling submission deadline](#)
- [KubeCon Europe - April 1-4, 2025 - London - Submission deadline November 24](#)
- [Energy Tech Summit - April 9-10, 2025 - Bilbao, Spain - Submission deadline October 14](#)
- [The smarter E Europe \(EmPower\) - May 7-9, 2025 - Munich, Germany - Submissions open October 7 and close December 6](#)
- [MOVE - June 18-19, 2025 - London - Rolling submission deadline](#)

Closing and Next Meeting

6:25 pm - 6:30 pm

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Next TAC Meeting

The next meeting of the LF Energy TAC is scheduled for 29 October 2024 at 8:00 am US Pacific Time/11:00 am US Eastern Time/5:00 pm Central European Time. Agenda will include:

- General Updates
- AI SIG Annual Review
- Archimate Annual Review
- Marketing/PR/Events update

To add agenda items, go to <https://github.com/lf-energy/tac/issues/new/choose>.

You can review the TAC Agenda at <https://github.com/orgs/lf-energy/projects/2/views/1>

APPENDIX

Marketing and PR Updates

Recent Media Coverage

- [TFIR - Hydro-Québec joins LF Energy](#)
- [TFIR - Code quality and security are crucial for open source projects | Nico Rikken, Alliander](#)
- [TFIR - Open source foundations to accelerate the energy transition | Alex Thornton – LF Energy](#)
- [TFIR - LF Energy's SEAPATH project aims to drive the next generation of energy management](#)
- [TFIR - What are the unique challenges in the energy sector?](#)
- [EnergyCentral - How French Transmission System Operator, RTE, Leverages Open Source to Build Next-Gen Substation Monitoring and Controls](#)
- [TFIR - LF Energy's role to accelerate decarbonization in the energy sector](#)
- [EC&M - Open-Source Platform EVerest to Advance Electric Vehicle Charging Interoperability](#)
- [Electronic Design - This Week in PowerBites: Open-Source EV Charging, Solid-State Circuit Protection](#)
- [TFIR - Open source drives technical transformation of vertical industries: Linux Foundation Report](#)
- [Solar Builder - Solving public EV charging issues with open-source software](#)
- [TFIR - LF Energy's role in global decarbonization and grid standardization](#)
- [Electronic Design - Open-Source EV Charging: Linux-Based Platform Simplifies Interoperability](#)
- [TFIR - United States is ready to tackle Climate Crisis with the help of Open Source | Boris Dolley](#)



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