

Technical Advisory Council (TAC) Meeting

5 September 2023

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Meeting information

- Meeting to begin at 5:00 pm Central European Time
- Join the meeting by going to <https://zoom-lfx.platform.linuxfoundation.org/meeting/95214651568?password=eda16f17-bdd1-4a9f-a594-0947a1433153>
- 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 - 5:15 pm - Opening and General Updates
 - TAC and Project lead updates
 - Project Review Cycle
 - New LF Energy Project Logos
 - TAC Meeting Agendas
 - SGAM update
- 5:15 pm - 5:30 pm - Battery Data Alliance Proposal
- 5:30 pm - 5:50 pm - TROLIE Project Proposal
- 5:50 pm - 6:10 pm - Goals and Objectives Review-AI Strategy
- 6:10 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 - 5:15 pm

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TAC Voting Members

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



Antonello Monti
Chair
Professor
RWTH Aachen
University



Anne Tilloy
Project manager
RTE (Reseau de
Transport
dElectricite)



Art Pope
Member of
Technical Staff
Google LLC



Avi Allison
Program Manager,
Energy,
Sustainability
Microsoft
Corporation



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



Bryce Bartmann
Chief Digital
Technology Advisor
Shell International
Petroleum Company



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



Maarten Mulder
PO Field Device
Platforms
Alliander



Travis Sikes
Senior Data
Scientist
Recurve

LF Energy Hosted Project and Working Group Leads

Changes in bold



Project	Project Lead(s)
PowSyBI	Anne Tilloy, RTE
OperatorFabric	Boris Dolley, RTE
OpenEEmeter	Travis Sikes, Recurve
GXF	Maarten Mulder, Alliander
SOGNO	Antonello Monti, RWTH Aachen University
CoMPAS	Aliou Diaite, RTE & Sander Jansen, Alliander (TAC Representative)
FledgePOWER	Akli Rahmoun, RTE
Hyphae	Asimonia Korompili, RWTH Aachen University
openLEADR	Lonneke Driessen & Stan Janssen, OpenADR
SEAPATH	Éloi Bail, RTE
Grid Capacity Map	Per Lysemose Hansen, Energinet
Shapeshifter	Robben Riksen, Alliander
OpenSTEF	Frank Kreuwel, Alliander
EVerest	Marco Möller, PIONIX
OpenGEH	Per Lysemose Hansen, Energinet
FlexMeasures	Nicolas Höning, Seita Energy Flexibility B.V.
Arras	David Chassin, SLAC
Dynawo	Marco Chiaramello, Benoît Jeanson, RTE
OpenFIDO	David Chassin, SLAC
Power Grid Model	Tony Xiang, Alliander
Real Time Data Ingestion Platform (RTDIP)	Bryce Bartmann, Shell

Project Review Cycle

Working Groups

Group	Current Level	Initially Accepted	Last Review	Next Review
Archimate Working Group	Active	October 4, 2022		October 17, 2023

2024 Future Reviews

Project	Current Level	Initially Accepted	Last Review	Next Review
OpenFIDO	Sandbox	January 17, 2023		January 9, 2024
SEAPATH	Incubation	October 6, 2020	January 17, 2023	January 9, 2024
Hyphae	Incubation	December 8, 2020	February 7, 2023	February 20, 2024
Power Grid Model	Sandbox	February 7, 2023		February 20, 2024
FledgePOWER	Incubation	February 11, 2021	March 21, 2023	March 12, 2024
SOGNO	Early Adoption	October 27, 2020	March 21, 2023	March 12, 2024
Shapeshifter	Incubation	April 6, 2021	April 11, 2023	April 23, 2024
CoMPAS	Incubation	May 5, 2020	July 13, 2022	June 25, 2024

Upcoming Reviews

Project	Current Level	Initially Accepted	Last Review	Next Review
Arres	Sandbox	July 12, 2022		July 25, 2023
OperatorFabric	Early Adoption	April 30, 2019	June 21, 2022	July 25, 2023
Grid Capacity Map	Incubation	April 27, 2021	July 12, 2022	TBD
OpenEEmeter	Incubation	June 4, 2019	September 13, 2022	October 17, 2023
GXF	Early Adoption	February 4, 2020	October 4, 2022	October 17, 2023
OpenGEH	Sandbox	October 12, 2021	October 4, 2022	October 17, 2023
RTDIP	Sandbox	October 25, 2022		November 7, 2023
OpenSTEF	Incubation	September 21, 2021	October 25, 2022	November 7, 2023
FlexMeasures	Incubation	November 2, 2021	November 15, 2022	November 28, 2023
PowSyBI	Early Adoption	April 30, 2019	November 15, 2022	November 28, 2023
Dynawo	Sandbox	December 6, 2022		December 5, 2023
EVERest	Early Adoption	October 12, 2021	December 6, 2022	December 19, 2023
OpenLEADR	Incubation	September 15, 2020	December 6, 2022	December 19, 2023

TAC Sponsors for Projects

As part of the benefit for LF Energy projects, the TAC has a sponsor for each project.

“Appointment of an existing TAC member by the TAC that will act as a sponsor of the project and provide recommendations regarding governance best practices.”

ACTION: Review assignments, let John or Yarille know if there are issues

Project	Current Level	TAC Sponsor
Archimate Working Group	Working Group	Maarten Mulder
Arras	Sandbox	Antonello Monti
CoMPAS	Incubation	Bryce Bartmann
Dynawo	Incubation	Art Pope
EVerest	Early Adoption	Bryce Bartmann
FledgePOWER	Incubation	
FlexMeasures	Incubation	Maarten Mulder
Grid Capacity Map	Incubation	Boris Dolley
GXF	Early Adoption	Jonas van den Bogaard
Hyphae	Incubation	Antonello Monti
OpenEEmeter	Incubation	Carmen Best
OpenFIDO	Sandbox	Avi Allison
OpenGEH	Sandbox	Avi Allison
OpenLEADR	Incubation	Anne Tilloy
OpenSTEF	Incubation	Jonas van den Bogaard
OperatorFabric	Early Adoption	Boris Dolley
PowSyBl	Early Adoption	Anne Tilloy
Power Grid Model	Sandbox	
Real Time Data Ingestion Platform (RTDIP)	Sandbox	Art Pope
SEAPATH	Early Adoption	
Shapeshifter	Incubation	Jonas van den Bogaard
SOGNO	Early Adoption	Antonello Monti

New LF Energy Project Logos

For projects, we have logos you can use to illustrate being hosted at LF Energy. Grab the logos in multiple formats at <https://artwork.lfenergy.org/other/lf-energy-project/>

The logo features a stylized 'LF' icon on the left, composed of dark blue and light blue geometric shapes. To its right, the words 'ENERGY' and 'PROJECT' are written in a light blue, sans-serif font. A horizontal line is positioned below the 'ENERGY' text.

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PROJECT

Big thanks to Dan Brown and LF CS for the artwork!

A smaller version of the LF ENERGY logo, featuring the stylized 'LF' icon and the text 'LF ENERGY' in a light blue, sans-serif font.

TAC Meeting Agendas

We are moving to using GitHub Issues and Projects for managing TAC Meeting Agendas.

To add agenda items, go to

<https://github.com/lf-energy/tac/issues/new/choose>. We will be adding options for new projects/working groups in the coming weeks.

You can review the TAC Agenda at

<https://github.com/orgs/lf-energy/projects/2/views/1>

SGAM update

We've done a first pass at this, see <https://tac.lfenergy.org/sgam>.

DISCUSSION: Review and provide feedback to improve.

Battery Data Alliance Proposal

5:15 pm - 5:30 pm

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Battery Data Alliance

Simplifying battery data across the industry



What is the Battery Data Alliance?

A community of **software developers** and **battery engineers** who are building the **future of software services** for the battery industry.

Focusing the efforts of practitioners and organizations, creating the necessary environment to make change in the industry

Utilizing the proven model to get high-quality contributions from major industry players



CLOUD NATIVE
COMPUTING FOUNDATION



FinOps
Foundation



MLOps
· community

We aspire to be like the above initiatives, for batteries

Key Problem

No clear standards, data formats or testing procedures leads to redundant work, slowing down progress

Value Add

- Faster and More Reliable **Vendor Validation**
- Improved Collaboration through **Data Sharing**
- Faster **Battery Development & Sales**
- Robust & Complete **Software Architecture**
- Unlock **New Applications** like Battery Passport

Areas of Interest

1. Collating the work of existing Open Source Battery Data efforts into a **cohesive Battery Data Landscape**
2. Define **Reference Architecture** that makes setting up a Battery Lab a breeze
3. Evangelize a Common Battery Data Schema and API to improve **vendor qualification**
4. Harmonize all public battery data into a common format and made easily available through a **public data catalog**
5. Hosting **Battery Data Competitions**
6. Align with existing open source efforts:
 - BPX
 - Battery Digital Twin
 - Battery Passport
 - Battery Data Genome
 - Battery Archive

Why join Battery Data Alliance?

Value to Software Enterprise

- Get your platform and standards adopted by the development teams doing the work before someone else does
- Access and influence to new ideas and startups in the multi-billion dollar battery data market
- ESG and SDG impact

Value to Battery Businesses

- Sell reliable batteries faster
- Cut down on redundant work so you can focus on other objectives in your business
- Benefit from the ideas and progress of others in the community, don't be left behind

Value to Battery Engineers & Software Developers

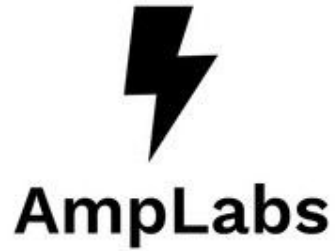
- Build alongside a community of developers to help make your life easier
- Contribute to the larger clean energy mission, write software that matters

Why ?

Linux Foundation has a proven track record of building and hosting projects that are widely relied on in the world, such as **Linux** and **Kubernetes**

LF Energy provides a vendor neutral home for any software, designs, and other IP generated by the community focused on the energy sector

Members



Our Next Steps

Join LF Energy

Finalize Areas of Interest with Members

Create Roadmap

Public Announcement

Begin Design Documentation

Develop

TROLIE Project Proposal

5:30 pm - 5:50 pm

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Goals and Objectives Review

5:30 pm - 5:50 pm

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2023 Strategic Goals and Objectives

1. Stable membership/projects

- ✓ Maintain existing to \$1.2M USD annual revenue (membership, events and grants)
- ↻ Have 4 projects move up a life cycle maturity stage. (2 completed)

2. Invest in our communities to drive success and better security

- ✓ Host a developer conference
- ↻ **Ensure all projects have completed the OpenSSF Badge Requirements for their maturity level, are doing scans with LFX Security, and have correct contribution data on LFX Insights.**
- ↻ **Every other TAC meeting hold a "best practices" session topic for maintainers, with invited guest speakers**
- ↻ **Have all projects represented in the Smart Grid Model diagram and update to date Archimate functional architectures**

3. Increase visibility through strong Marketing/PR/Thought Leadership

- ✓ Establish an Outreach Committee for members to participate in marketing planning
- ✓ Revise website, with each project landing page reviewed and updated for accuracy
- ✓ Conduct more research studies to guide our priorities and demonstrate our deep insights
- ✓ Implement new tooling and processes to enable better communication
- ↻ **Build the bridge with the standardization world (IEC): reference implementations of standards should be naturally found in LFE. Combination of thought leadership (articles, webinars, speaking engagements, etc.) exploring the importance of open standards for energy and case study examples.**
- ↻ **Why open source for energy - webinars, PRs, blogs. Utilize our SMEs and their expertise to explain to skeptics in the energy sector why open source is the correct path forward.**
- ↻ **Partner with energy industry events. Already in process with ongoing event tracker and frequent CFP submissions. A new MAC events subcommittee will explore deeper engagements.**

Actions at the TAC

- Working to do

AI Strategy

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Marketing/PR/Events Updates

6:10 pm - 6:25 pm

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Marketing and PR Updates

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- The Open Source Sustainability Ecosystem report with Open Sustainable Technology has been released
 - [Marketing kit](#) - please help spread the word
- Partnering with consortium organized by Anto to apply for an EU Horizon grant - application due early October
 - Meetings taking place weekly
- Work continuing on cybersecurity for energy systems white paper
 - Dan has seen early draft and provided some feedback; review copy should be ready soon
- [Series of blog posts](#) continuing providing summaries and video of all sessions at LF Energy Summit/Embedded Summit
- Recent media coverage
 - [Canary Media - California sees success tying energy efficiency rebates to real results](#)
 - [EnergyPortal.eu - The Impact of Open Source in Sustainability](#)
 - [Power Electronics - The 2023 LF Energy report investigates the open-source sustainability ecosystem](#)
 - [Electronic Design - What's Trending in Open-Source Embedded Systems?](#)
 - [Gulf Oil & Gas - LF Energy Research Finds Open Source Software is Driving Sustainability Innovation](#)
 - [FOSSLife - Visualizing the Open Source Sustainability Ecosystem](#)
 - [Sustainable Tech Partner - Sustainability and Green IT News for Technology Partners: 09 August 2023](#)
 - [EnergyCentral - Research Report Reveals the State of Open Source Innovation for Sustainability](#)
 - [PRNewswire - This Week in Energy News: 12 Stories You Need to See](#)
- Use this [form](#) to submit any comms/marketing support requests

Marketing and PR Upcoming Activities

- Linux Foundation annual report
 - Preparing text for LF Energy section
- Preparing quarterly momentum press release to release during SustainabilityCon
- Scheduling onsite media interviews at SustainabilityCon
- Developing Seed ReCharger case study with EVerest project (jointly with LF Zephyr project which is also used in the product)
- Preparing applications for OpenUK Awards program
 - Planning to submit RTDIP for Data category, and OpenLeADR and Shapeshifter each for Sustainability category
- Develop plan for engagement with standards bodies (IEC, IEEE, etc.)

Events

- OpenUK Open Source for Sustainability Day - Sept 14, Edinburgh
 - Dan will be speak in a plenary session focused on the three recent research reports
- LF Europe Member Summit - Sept 18, Bilbao
 - Invitation-only event taking place immediately prior to Open Source Summit; attendees are all employees of LF Europe member organizations
 - LF Energy has been provided with an exhibit table at the event - Dan will staff with help from Lucian and Jonas
 - Lucian to present plenary session on LF Energy momentum
- SustainabilityCon at Open Source Summit Europe - Sept 19-21, Bilbao
 - Proposals were ACCEPTED for four sessions:
 - Panel: How Open Source Collaboration is Transforming the Power Systems Sector
 - Session: More Renewable Energy Into the Power Grid with Open Source
 - Session: SEAPATH: A LF Energy Project for Critical Infrastructure with an Emphasis on Software Supply Chain Security
 - Panel: Advancing the United Nations Sustainable Development Goals through Open Source
 - Associate Member EnAccess also will be presenting
 - Scheduling a meetup for any LF Energy community members onsite for the evening of Wednesday, 20 September
- LF Energy Summit 2024
 - MAC subcommittee specifically working on planning for the event met with LF Events team on 5 September
- [Event tracker](#) - please review and add any additional opportunities

Upcoming Event CFPs

- [Enlit Europe - Nov 28-30 - Rolling submission deadline](#)
- [Open Source Summit Japan - Dec 5-6 - Deadline Sept 10](#)
- [e-world Energy & Water - Feb 20-22, 2024 - Rolling submission deadline](#)
- [Carbon Tracking & Reporting - March 26-27, 2024 - Rolling submission deadline](#)
- [Energy Thought Summit - April 15-18, 2024 - Rolling submission deadline](#)
- [CIREC Vienna - June 19-20, 2024 - Submissions open Sept 11, close Dec 8](#)
- [MOVE London - June 19-20, 2024 - Rolling submission deadline](#) (for this one, we should email cormac.martin@terrapinn.com with speaking proposals)

KPIs to Demonstrate Progress

We would like to start measuring and reporting on some KPIs that would help us demonstrate LF Energy's impact, but currently lack requisite data:

- Number of implementations
- Case studies demonstrating measurable benefits from implementations (e.g. reduction in emissions)
- Progress on digital transformations driven by LF Energy projects within utilities
- Others?

What ideas does this group have for sourcing this data?

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 26 September 2023 at 8:00 am US Pacific Time/11:00 am US Eastern Time/5:00 pm Central European Time. Agenda will include:

- Recap of last TAC Meeting
- GRIP New Project Proposal
- GXF Annual Review
- Marketing/PR/Events update



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