Technical Advisory Council (TAC) Meeting

20 February 2024
Meeting information

→ Meeting to begin at 5:00 pm Central European 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 - 5:20 pm - Opening and General Updates
  ○ TAC member updates and project review date reminders
  ○ General updates
  ○ Project Security Focus updates
● 5:20 pm - 5:40 pm - Hyphae Annual Review
● 5:40 pm - 6:00 pm - Power Grid Model Annual Review
● 6:00 pm - 6:20 pm - OpenWallet / VC API presentation
● 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 - 5:20 pm
TAC Voting Members

You can update your headshot/title at openprofile.dev.
## LF Energy Hosted Project Leads

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Lead(s)</th>
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<tbody>
<tr>
<td>PowSyBI</td>
<td>Anne Tilloy, RTE</td>
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<tr>
<td>OperatorFabric</td>
<td>Frederic DIDIER, RTE</td>
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<tr>
<td>OpenEEmeter</td>
<td>Travis Sikes, Recurve</td>
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<tr>
<td>GFX</td>
<td>Maarten Mulder, Alliander</td>
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<tr>
<td>SOGNO</td>
<td>Antonello Monti, RWTH Aachen University</td>
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<tr>
<td>CoMPAS</td>
<td>Aliou Diaite, RTE &amp; Sander Jansen, Alliander (TAC Representative)</td>
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<tr>
<td>FledgePOWER</td>
<td>Akli Rahmoun, RTE</td>
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<tr>
<td>Hyphae</td>
<td>Asimenia Korompili, RWTH Aachen University</td>
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<tr>
<td>openLEADR</td>
<td>Stan Janssen, OpenADR</td>
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<tr>
<td>SEAPATH</td>
<td>Éloi Bail, Savoir-faire Linux</td>
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<tr>
<td>Grid Capacity Map</td>
<td>Harald Klomp, Vattenfall</td>
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<tr>
<td>Shapeshifter</td>
<td>Robben Riksen, Alliander</td>
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<tr>
<td>OpenSTEF</td>
<td>Frank Kreuwel, Alliander</td>
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<tr>
<td>EVerest</td>
<td>Marco Möller, PIONIX</td>
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<td>OpenGEH</td>
<td>Nicolas Bernhardi, Energet</td>
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<td>FlexMeasures</td>
<td>Nicolas Höning, Seita Energy Flexibility B.V.</td>
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<tr>
<td>Arras</td>
<td>David Chassin, SLAC</td>
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<tr>
<td>Dynawo</td>
<td>Marco Chiaramello, Benoît Jeanson, RTE</td>
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<tr>
<td>OpenFIDO</td>
<td>David Chassin, SLAC</td>
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<tr>
<td>Power Grid Model</td>
<td>Tony Xiang, Alliander</td>
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<td>Real Time Data Ingestion Platform (RTDIP)</td>
<td>Bryce Bartmann, Shell</td>
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<tr>
<td>TROLIE</td>
<td>Christopher Atkins, MISO Energy</td>
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<tr>
<td>Battery Data Alliance</td>
<td>Gabe Hege, AMPLabs</td>
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<tr>
<td>GRIP (Grid Resilience and Intelligence Platform)</td>
<td>Alyona Teybar, MASc</td>
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# Project & Working Group Leads

## Project Lead(s)

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Lead(s)</th>
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<tbody>
<tr>
<td>Open Sustainable Technology</td>
<td>Tobias Augspurger, Prototypes</td>
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<td>CitrineOS</td>
<td>Thana Paris, S44</td>
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<td>covXtreme</td>
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<td>Synthetic Energy Data</td>
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<td>OpenSCD</td>
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## Work Group Lead(s)

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<tr>
<th>Working Group</th>
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<tr>
<td>AI Working Group</td>
<td>Alexandre Pariost, The Linux Foundation</td>
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<tr>
<td>Archimate Working Group</td>
<td>Jonas van den Bogaard, Alliander</td>
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<td>Project</td>
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<th>Project</th>
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## Project Review Cycle

### Working Groups

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<td>AI Working Group</td>
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### Past Reviews

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<tr>
<th>Project</th>
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General Updates

- Yarille will be reaching out to project/working group leads to update slide in HL overview deck. ([https://github.com/lf-energy/tac/issues/91](https://github.com/lf-energy/tac/issues/91))

- We’d like to schedule guest speakers/topics that would be of interest to TAC members and TSC leads.
  - **ACTION:** Let us know what would be of interest at [https://github.com/lf-energy/tac/issues/31](https://github.com/lf-energy/tac/issues/31).

- Plan to move all projects to using LFX PCC Meeting Management by end of Q1; current status at [https://github.com/lf-energy/tac/issues/39](https://github.com/lf-energy/tac/issues/39)
  - **ACTION:** Projects lead to work with John on transitioning: [https://github.com/lf-energy/tac/issues/110](https://github.com/lf-energy/tac/issues/110)

Project Security Focus updates

- Ensure all projects up to date with OpenSSF Best Practices Badge per their maturity level
- Clean up LFX Security to ensure it's accurate
- Review license scans and remedy open issues
- Security Audits for all ‘Early Adoption’ stage projects
- Security strategy developed by TAC (response standards, CVE response)
Current OpenSSF Best Practices Badge status (4 projects out of compliance)

**ACTION:** Projects in red boxes need review (source https://tac.lfenergy.org/projects_with_bestpractices)
ACTION: John to review and debug issues.
All current projects accepted before 12/1 had license scans done at the end of December

**ACTION:** Review latest license scans sent from Jeff Shapiro and address open issues
Security Audits through Open Source Technology Improvement Fund.

Priority Focus for ‘Early Adoption’ projects

In progress:

- SEAPATH - in progress
- EVerest - planned kickoff in Q1 2024
- PowSyBL - planned kickoff late Feb 2024

TODO:

- GXF
- OperatorFabric
- SOGNO

Next focus is on Incubation projects.

**ACTION:** Remaining ‘Early Adoption’ projects get lined up for scans; identify any ‘Incubation’ projects next.
Security Strategy

TAC take the lead on developing a common set of security expectations and infrastructure for all hosted projects.

Besides the aforementioned topics, the TAC should provide guidance on:
- Base security policy for projects
- Standards for security response and responsible disclosure (CVE)
- Anything else industry specific to consider

**ACTION:** TAC to discuss forming a group to focus on building out security strategy
Hyphae Annual Review

5:20 pm - 5:40 pm
Hyphae

Brief Description:
Hyphae aims at building open-source control for AC/DC microgrids, which is modular and scalable, allowing the plug-and-play capability of power electronics-interfaced distributed energy resources, as well as the flexible expansion and resilience of microgrids.

TSC Chairperson:
Antonello Monti (amonti@eonerc.rwth-aachen.de)

TSC Members and Affiliations:
Asimenia Korompili (ACS, RWTH-Aachen University)

Contributed by:
ACS, RWTH Aachen University

Key Links:
Github: https://github.com/hyphae
Website: https://www.lfenergy.org/projects/hyphae/
Artwork: N/A
Mailing lists:
- https://lists.lfenergy.org/g/hyphae-general
OpenSSF Best Practice Badge URL: N/A
Organizations contributing and/or using in production

- FORSCHUNGSCAMPUS
- FLEXIBLE ELEKTRISCHE NETZE
- OPAL-RT TECHNOLOGIES
- EATON

Powering Business Worldwide
Key Achievements in the past year (1/2)

● Controller for converters in hybrid AC/DC microgrid
  ○ Plug-and-play capability

● Systematic design process of converter controller
  ○ Achieve opposing design requirements in frequency and time domains
  ○ Consideration of non-linearities, discretisation, hardware implementation
  ○ Applicable to various controllers and converter types

● Hardware set-up for DC microgrid control
  ○ Use for testing of control in real control device
    ■ Various converter controllers in various converter types are validated
Key Achievements in the past year (2/2)

- Integration of distributed OPF algorithm in automation platform of PlatOne EU project
  - Application in use-cases of real demo AC grids

- Improvements of distributed OPF algorithm for AC systems
  - Faster convergence for faster control actions in power electronics-based grids
  - Integration to LFE SOGNO platform

- Integration of open-source control solution into FEN 3.0 proposal
  - Key role of open-source converter control for interoperability
  - Research topic together with converter manufactureuers
Growth Plan

● Open-source code for system control in AC/DC microgrids
● Validation of control of AC/DC microgrids with real power devices
● Connection with other projects on AC/DC distribution grids
   ○ Hyperride EU project: Application of distributed OPF algorithm in real demo AC/DC grid
● Promotion of Hyphae project in topics of FEN 3.0 project proposal
Areas the project could use help on

- Integration of OPF tool as microservice in LFE SOGNO platform
  - System models, data formats

- Application of OPF tool in TSO/DSO platforms
  - Use-cases and business models of system operation

- Open-source control solutions in converter-based power systems
  - Topic of interoperability in projects about HVDC transmission grids
Feedback on working with LF Energy

- Motivation to include open-source control solutions in research projects
- Relation with other LFE projects
TAC Open Discussion
Power Grid Model Annual Review

5:40 pm - 6:00 pm
Brief Description:

Power Grid Model is a high-performance distribution grid calculation library. It provides various algorithms to perform power flow, state estimation and short circuit calculations. Power Grid Model achieves a high performance due to the implementation in C++, but can easily be used, cross platform (Linux, Windows, Mac), through the Python API or C API.

TSC Chairperson:

Tony Xiang – tony.xiang@alliander.com

TSC Members and Affiliations:

Tony Xiang – Alliander
Jonas van den Bogaard – Alliander
Werner van Westering – Alliander
Peter Salemink – Alliander

Contributed by:

Alliander N.V.
TU Delft
TU Eindhoven

Key Links:

Github: https://github.com/PowerGridModel
Website: https://lfenergy.org/projects/power-grid-model/
Artwork: https://github.com/PowerGridModel/.github/tree/main/artwork
Mailing lists: https://lists.lfenergy.org/g/powergridmodel
OpenSSF Badge URL: https://www.bestpractices.dev/en/projects/7298
Organizations contributing and/or using in production
Power Grid Model

- A fundamental building block to modernize power system analysis for distribution grids
- Support for Power flow, State estimation & Short circuit calculations
Code and non-code Contributions

- Validation test cases from diverse users
- Algorithms for flexibility estimation (OPF)
- Proposals for serialization
Key Achievements in the past year

- Features:
  - Musllinux support
  - Improved documentation
  - Release in conda-forge
  - C-API
  - Pandapower conversion + integration
  - Short circuit calculations 1.5.x
  - Serialization 1.6.x
  - Disable sensors in state estimation
  - C++20
Key Achievements in the past year

● Promotion & Community events:
  ○ PGM paper published in CIRED conference
  ○ Presentation at CIRED conference
  ○ Presentation at LF Energy Summit
  ○ Presentation at Open Source Summit Europe
  ○ Video interview with Swapnil
  ○ Hackathon with SOGNO
  ○ Two Power Grid Model meet-ups
  ○ New Case study: https://lfenergy.org/power-grid-model-delvi/
  ○ Blogs:
    ■ https://lfenergy.org/recap-of-the-4th-power-grid-model-meet-up/
    ■ https://lfenergy.org/join-the-free-power-grid-model-workshop-online-18-january-2024/
    ■ https://lfenergy.org/power-grid-model-v1-6-now-available/
    ■ And more

● Other
  ○ Joining LF Energy
  ○ OpenSSF badge on passing level
  ○ Power Grid Model architecture view in LF Energy Architecture model
Key goals for coming year

● Features:
  ○ Newton Raphson state estimation
  ○ Automatic tap changer
  ○ Added to LFX
  ○ Move to Incubation

● Promotion & community events:
  ○ Power Grid Model Workshop
  ○ Presentation at FOSDEM '24 conference
  ○ Presentation at SG Tech '24 conference
  ○ Presentation at LF Energy Summit '24
  ○ Two Power Grid Model meet-ups

● Other:
  ○ Add Power Grid Model to LFX
  ○ Move to Incubation from Sandbox
Power Grid Model is ready for Incubation

Current stage

Desired stage

Project Proposal

Sandbox

Incubation

Early Adoption

Graduated

Develop ideas, focuses

Form scope, gain consensus

Build community

Gain industry traction

Ready for production
Incubation Project review criteria

To be considered for the Incubation Stage, the project must meet the following requirements:

- Have an open and documented technical governance, including:
  - A LICENSE file in every code repository, with the license chosen an [OSI-approved license](#). ✓
  - A README file welcoming new community members to the project and explaining why the project is useful and how to get started. ✓
  - A CONTRIBUTING file explaining to other developers and your community of users how to contribute to the project. The file should explain what types of contributions are needed and how the process works. ✓
  - A CODEOWNERS or COMMITTERS file to define individuals or teams that are responsible for code in a repository; document current project owners and current and emeritus committers. ✓
  - A CODE_OF_CONDUCT file that sets the ground rules for participants’ behavior associated and helps to facilitate a friendly, welcoming environment. By default projects should leverage the [Linux Foundation Code of Conduct](#) unless an alternate Code of Conduct is approved prior. ✓
  - A RELEASE file that provides documentation on the release methodology, cadence, criteria, etc. ✓
  - A GOVERNANCE file that documents the project's technical governance. ✓
  - A SUPPORT file to let users and developers know about ways to get help with your project. ✓

- Complete and approve the Technical Charter and agree to transfer any relevant trademarks to The Linux Foundation or its affiliate, LF Projects, LLC, and to assist in filing for any relevant unregistered ones. ✓
Growth Plan to Scale the Community

We have the following ambitions:

● Increase contributions by motivating recurring contributions from organizations that use or extend Power Grid Model
  ○ Contributor recognition

● Attract new contributors
  ○ Increase contribution backlog exposure
  ○ Improve documentation by making contribution guides easy to navigate.

● Expand Outreach
  ○ Social media presence (e.g. LinkedIn)
  ○ Event presence (e.g. FOSDEM, LF Energy Summit, etc.)
Incubation Project review criteria (continued)

- Have achieved and maintained an [OpenSSF Best Practices Badge](https://openSSF.org/best-practices-badges) at the 'Passing' level.

- Have had a successful license scan with any critical issues remedied.

- Have a defined project mission and scope
The project's functional architecture is built out in the LF Energy ArchiMate tool.
Incubation Project review criteria (continued)

- An overview of the project’s architecture and features defined.
- The project roadmap defined, which should address the following questions.
  - What use cases are possible now?
  - What does the next year look like in terms of additional features and use cases covered?
- Community and contributor growth assessment (see previous slides)
  - The current number of contributors and committers, and the number of different organizations contributing to the project.
  - Demonstrate a sustained flow of commits / merged contributions.
  - A credible plan for developing a thriving user community, in particular expanding the number of committers and contributors?
  - An outline of the plan for the project to complete the requirements for the Early Adoption stage.
- Receive the affirmative majority vote of the TAC.
Does the TAC agree that the Power Grid Model is ready for Incubation?
Areas the project could use help on
Feedback on working with LF Energy
OpenWallet / VC API presentation

6:00 pm - 6:20 pm
Marketing/PR/Events Updates

6:20 pm - 6:25 pm
Marketing and PR Updates

- Developing Seeed ReCharger case study and webinar with EVerest project (jointly with LF Zephyr project which is also used in the product) - awaiting approval from Seeed
- Also working with RTE and FledgePower on a case study - release date TBD
- Drafted blog post about SAM use cases - will publish tomorrow
  - Planning a webinar around the project in the coming months
- **TROLIE webinar** scheduled for Feb 21
- **OpenSTEF webinar** scheduled for 1 March
- **OpenEEMeter webinar** scheduled for 12 March
  - Announcement of OpenEEMeter 4.0 issued today
- New content in development:
  - 2023 LF Energy Annual Report
  - Open Source Impact on Vertical Industries White Paper
  - Interoperability Research Report with Natural Resources Canada & LF Research
- Use this [form](#) to submit any comms/marketing support requests

Contact: dbrown@linuxfoundation.org
+1 415-420-7880
Recent Media Coverage

- EnergyCentral - Alliander’s Delvi Project Leverages LF Energy Power Grid Model to Direct Overhaul of Low Voltage Grid
- EnergyCentral - Sustaining Progress - January 2024 Digest for the Energy & Sustainability Network
- ARC Advisory Group - U.S. Joint Office of Energy and Transportation Partners with Linux Foundation Energy to Improve EV Charging Nationally
- Engineering.com - Linux Foundation tapped to develop open source EV charging tech
- AutoBlog - U.S. Joint Office of Energy and Transportation Partners With Linux Foundation Energy to Improve Reliability and Interoperability of EV Charging Nationally
- Electronics Specifier - US gov’t adopts open source EV charging framework
- Auto Connected Car News - Free Webinar 1/29 from LF Energy & Dept. Energy & Transportation for Open Souring EV Charging Structure
- IT Brief UK - US Office adopts LF Energy EVerest for nationwide EV charging
- TFIR - More Standardization Is Needed To Tackle Energy Sector Challenges | Maarten Mulder – Alliander
- Power Systems Design - US Gov Office Adopts Open Source EV Charging Framework from Linux Foundation Energy
- Digital Journal - EV decarbonization partnership launches in US
- EV World - U.S. Joint Office of Energy and Transportation Partners With Linux Foundation Energy to Improve Reliability and Interoperability of EV Charging Nationally
- EV Charging & Infrastructure - US government partners with Linux Foundation Energy on EV charging
- The Buildout - Biden Administration Partners With Open Source Community on EV Charging Standards
- SD Times - SD Times Open-Source Project of the Week: ClimateTriage
- Slashdot - Linux Foundation Energy' Partners With US Government on Interoperability of America's EV Charging
- gtucker.io (blog) - FOSDEM Energy 2024
- TFIR - EnAccess works to democratize energy access with open source solutions | Vivien Barnier
Events

- **FOSDEM 2024** - 3-4 Feb, Brussels
  - Videos available of all talks
  - Energy Devroom was filled to or past capacity the entire day - thank you to the Devroom organizers!

- **Open Sustainability Policy Summit** - 2-3 May, Washington, DC
  - This event will be hosted by Johns Hopkins University at their DC facility
  - LF Energy will be responsible for curating the content
  - Public CFP has closed, but if you have a speaking topic in mind, reach out to Dan

- **Open EV Charging Summit (TBA)**
  - Texas Instruments Campus, Dallas, TX
  - May 15-16, 2024

- **LF Energy Summit 2024 (pending contracts with venue)**
  - Marriott Grand Place Brussels
  - September 5-6, 2024
  - Preliminary sponsorship prospectus - will be updated once all contracts are signed
  - CFP to open in early March

- **DISTRIBUTECH** - 26-29 Feb, Orlando
  - 6 LF Energy members will be exhibiting
  - James Sullivan from our member solutions team will be onsite for discussions with potential new members

- [Event tracker](#) - please review and add any additional opportunities
Upcoming Event CFPs

- **MOVE London** - June 19-20, 2024 - Rolling submission deadline (for this one, we should email cormac.martin@terrapinn.com with speaking proposals)
- **Experience POWER** - October 9-11, 2024, Orlando, FL - Submissions due Feb 28
- **Open Source Summit Europe (including SustainabilityCon)** - September 16-18, 2024, Vienna - Submissions due April 30
- **National Clean Energy Week** - September 23-27, 2024, Washington, DC - Rolling submission deadline
- **Enlit Europe** - October 22-24, 2024, Milan - Rolling submission deadline
- **Climate Tech Show** - November 27-28, 2024, London - Rolling submission deadline
Ambassador Program

- Looking at standing up an Ambassador Program for 2024. Examples from other LF projects can be seen at:
  - https://www.cncf.io/people/ambassadors/
  - https://openmainframeproject.org/about/ambassadors/

- **6 Applications** were received and shared with the TAC
  - Assuming there are no objections today, we will consider these approved and get them officially announced

- **Requirements**
  - Be active in at least one LF Energy project
  - Conduct at least one activity per quarter to remain an active ambassador
    - Speaking engagements, webinars, videos, blogs, etc.

- We would like to line up a few more, so applications remain open at https://lfenergy.org/ambassador-program/
Closing and Next Meeting

6:25 pm - 6:30 pm
The next meeting of the LF Energy TAC is scheduled for 12 March 2024 at 8:00 am US Pacific Time/11:00 am US Eastern Time/5:00 pm Central European Time. Agenda will include:

- New Working Group/Special Interest Group Proposal - Digital Substation Automation Systems (DSAS)
- New Working Group/Special Interest Group Proposal - Open Renewable Energy System (ORES) Working Group
- TAC Evolution Plan
- General Updates
- 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