

Technical Advisory Council (TAC) Meeting

17 October 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 - 5:10 pm - Opening and General Updates
 - TAC member updates and project review date reminders
 - General updates
- 5:10 pm - 5:20 pm - Project Security Focus
 - OpenSSF badge status review
 - LFX Security
 - Early adoption level project security audits
- 5:20 pm - 5:40 pm - Open Sustainable Technology Proposal
- 5:40 pm - 6:00 pm - Grid Capacity Map Annual Review
- 6:00 pm - 6:20 pm - OpenEEMeter Annual Review
- 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



Anne Tilloy
Project manager
RTE (Reseau de
Transport
dElectricite)



Art Pope
Member of
Technical Staff at
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	Frederic DIDIER, 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 Chiamello, Benoît Jeanson, RTE
OpenFIDO	David Chassin, SLAC
Power Grid Model	Tony Xiang, Alliander
Real Time Data Ingestion Platform (RTDIP)	Bryce Bartmann, Shell
TROLIE	Christopher Atkins, MISO Energy
Battery Data Alliance	Gabe Hege, AMPLabs
GRIP (Grid Resilience and Intelligence Platform)	Alyona Teybar, MASc

Project Review Cycle

2023 Upcoming Reviews

Project	Current Level	Initially Accepted	Last Review	Next Review
<i>Grid Capacity Map</i>	<i>Incubation</i>	<i>April 27, 2021</i>	<i>July 12, 2022</i>	<i>October 17, 2023</i>
<i>OpenEMeter</i>	<i>Incubation</i>	<i>June 4, 2019</i>	<i>September 13, 2022</i>	<i>October 17, 2023</i>
<i>OpenGEH</i>	<i>Sandbox</i>	<i>October 12, 2021</i>	<i>October 4, 2022</i>	<i>October 17, 2023</i>
OpenSTEF	Incubation	September 21, 2021	October 25, 2022	November 7, 2023
OpenLEADR	Incubation	September 15, 2020	December 6, 2022	November 7, 2023
FlexMeasures	Incubation	November 2, 2021	November 15, 2022	November 28, 2023
RTDIP	Sandbox	October 25, 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

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
Arras	Sandbox	July 12, 2022	July 25, 2023	January 30, 2024
OperatorFabric	Early Adoption	April 30, 2019	July 25, 2023	July 16, 2024
TROLIE	Sandbox	September 5, 2023		September 3, 2024
Battery Data Alliance	Sandbox	September 5, 2023		September 3, 2024
GRIP (Grid Resilience and Intelligence Platform)	Sandbox	September 26, 2023		September 17, 2024
GXF	Early Adoption	February 4, 2020	September 26, 2023	September 24, 2024

Working Groups

Group	Current Level	Initially Accepted	Last Review	Next Review
Archimate Working Group	Active	October 4, 2022		11/28/2023

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
Battery Data Alliance	Sandbox	
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
GRIP (Grid Resilience and Intelligence Platform)	Sandbox	
GXF	Early Adoption	Jonas van den Bogaard
Hyphe	Incubation	Antonello Monti
OpenEEmeter	Incubation	Travis Sikes
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	Jonas van den Bogaard
Real Time Data Ingestion Platform (RTDIP)	Sandbox	Art Pope
SEAPATH	Early Adoption	
Shapeshifter	Incubation	Jonas van den Bogaard
SOGNO	Early Adoption	Antonello Monti
TROLIE	Sandbox	

General Updates

- 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>.**
- Plan to move all projects to using LFX PCC Meeting Management by end of the year; current status at <https://github.com/lf-energy/tac/issues/39>
 - **ACTION: Volunteer to transition over.**
- Future of Slack; revisit looking at alternatives. Zulip has been suggested at <https://github.com/lf-energy/tac/issues/48>
 - **DISCUSSION: Revisit Slack and alternatives.**

Project Security Focus

5:10 pm - 5:20 pm

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Focuses

- Ensure all projects up to date with OpenSSF Best Practices Badge per their maturity level
- Clean up LFX Security to ensure it's accurate
- Promote SBOM scanning
- Security Audits for all 'Early Adoption' stage projects
- Security strategy developed by TAC (response standards, CVE response)



openssf best practices silver



openssf best practices silver



openssf best practices in progress 99%



openssf best practices passing



openssf best practices silver



openssf best practices in progress 73%



openssf best practices passing



openssf best practices passing



openssf best practices passing



openssf best practices passing



openssf best practices passing



openssf best practices passing



openssf best practices in progress 67%



openssf best practices passing

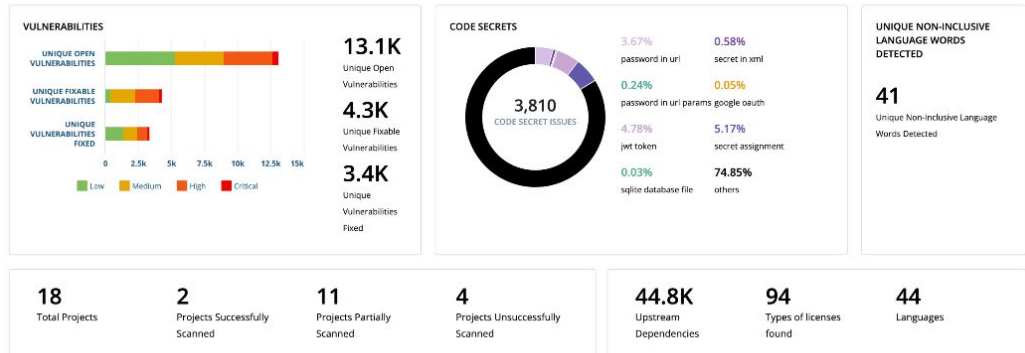


openssf best practices passing

Current OpenSSF Best Practices Badge status

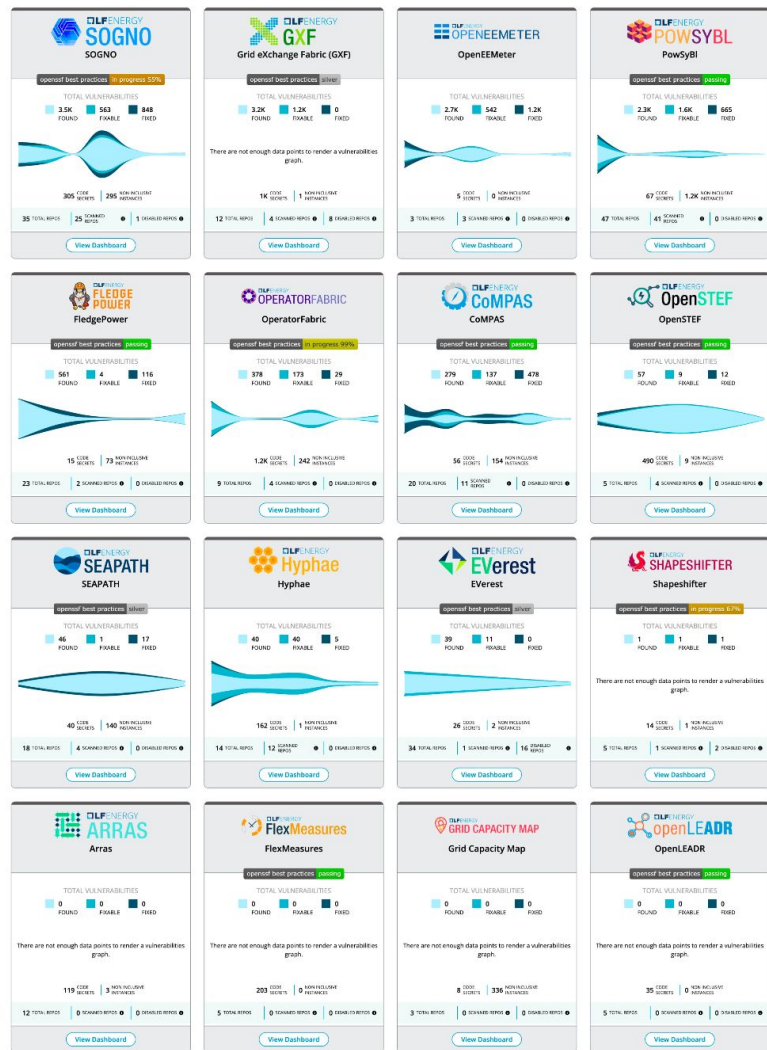
ACTION: Projects in red boxes need review (source

https://tac.lfenergy.org/projects_with_bestpractices)



- 16 of 20 projects on LFX Security
- 6 projects with no successful scans
- Only 2 projects with a full scan

ACTION: Project leads to review LFX Security and resolve issues/disable repos that shouldn't be scanned.



18 projects having license scans and SBOMs being generated.

GOAL: All project scanned every quarter

Carbon-Data-Spec	add SPDX file for Carbon-Data-Spec from 2023-07 Fossology scan	2 months ago
EVerest	add SPDX file for EVerest from 2023-07 Fossology scan	2 months ago
FledgePOWER	add SPDX file for FledgePOWER from 2023-07 Fossology scan	2 months ago
GridCapacityMap	add SPDX file for GridCapacityMap from 2023-07 Fossology scan	2 months ago
OCPPCloudConnector	add SPDX file for OCPPCloudConnector from 2022-12 Fossology scan	8 months ago
OpenGEH	add SPDX file for OpenGEH from 2023-07 Fossology scan	2 months ago
OpenSTEF	add SPDX file for OpenSTEF from 2023-07 Fossology scan	2 months ago
RTDIP	add SPDX file for RTDIP from 2023-07 Fossology scan	2 months ago
Shapeshifter	add SPDX file for Shapeshifter from 2023-07 Fossology scan	2 months ago
compas	add SPDX file for compas from 2023-07 Fossology scan	2 months ago
em2	add SPDX file for em2 from 2022-07 Fossology scan	last year
flexmeasures	add SPDX file for flexmeasures from 2023-07 Fossology scan	2 months ago
gxf	add SPDX file for gxf from 2023-07 Fossology scan	2 months ago
hyphae	add SPDX file for hyphae from 2023-07 Fossology scan	2 months ago
openeemeter	add SPDX file for openeemeter from 2023-07 Fossology scan	2 months ago
openleadr	add SPDX file for openleadr from 2023-07 Fossology scan	2 months ago
operatorfabric	add SPDX file for operatorfabric from 2023-07 Fossology scan	2 months ago
powsybl	add SPDX file for powsybl from 2023-07 Fossology scan	2 months ago
riaps	add SPDX file for riaps from 2023-07 Fossology scan	2 months ago
seapath	add SPDX file for seapath from 2023-07 Fossology scan	2 months ago
sogno	add SPDX file for sogno from 2023-07 Fossology scan	2 months ago

Security Audits through Open Source
Technology Improvement Fund.

Priority Focus for 'Early Adoption'
projects

In progress:

- EVerest
- SEAPATH

TODO:

- GXF
- OperatorFabric
- PowSyBL
- SOGNO

Next focus is on Incubation projects.

**ACTION: Remaining 'Early Adoption'
projects get lined up for scans; identify
any 'Incubation' projects next.**

OSTIF.org



The Open Source Technology Improvement Fund is a corporate non-profit dedicated to **securing open source apps** that we all depend on. Securing software isn't easy, and we know what it takes to succeed. By facilitating security audits and reviews, OSTIF makes it easy for projects to significantly improve security.

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

Open Sustainable Technology Proposal

5:20 pm - 5:40 pm

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Grid Capacity Map Annual Review

5:40 pm - 6:00 pm

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OpenEEMeter Annual Review

6:00 pm - 6:20 pm

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TAC Annual Review
OpenEEmeter

The current activity of the project, including releases, adoption, and committer/contribution growth and diversity.

- Releases:
 - 3.1.1 (minor error change), 3.2.0 (international changes, versioning updates)
 - 4.0.0a2 (daily model update)
- Most contributions from Recurve, 3 outside contributors (WattCarbon, Carbon Co-op)
- 2 successful working group initiatives (1 complete, 1 on-going)
 - Significant daily model improvements leading to 4.0.0a2, final version pending.
 - Daily model efficiency increase by 2 - 300x
 - Now can make unique models based on season and/or weekday/weekend
 - Considerable changes to hourly model in ongoing working group
 - Working group attendees peaked at ~50, regularly 20. Great ideas/feedback

The current activity of the project, including releases, adoption, and committer/contribution growth and diversity.

- While methods/EEmeter has been improving:
 - Scale of use of the method + code base grown across U.S. utilities; and companies reliant on calculations for performance payment. Examples:
 - New California policy (Market Access program) launched \$150M in activity 2022-2023
 - New U.S. Federal policy (Inflation Reduction Act) calls for open-source measurement and verification for home performance incentive program
 - Code for complementary applications - for comparison groups and demand response are accelerating (but have not yet been formally included in the project)

OPENEEMETER is the foundation for Demand Flexibility Performance Transactions

Utility Demand Flexibility Buyers



Demand Flexibility Providers

<p>BlockPower</p> <p>BlockPower</p> <p>Increase your building's profitability with a modern heating and cooling system.</p>	<p>BRIGHT POWER</p> <p>Bright Power</p> <p>Bright Power is the premier provider of energy and water management services.</p>	<p>CARBON LIGHTHOUSE</p> <p>CH Energy</p> <p>Cut Energy at a Florida Scale. Because one building at a time doesn't cut it.</p>	<p>CH Energy</p> <p>CH Energy is an expert in providing a turnkey energy solution.</p>	<p>CLEAResult</p> <p>CLEAResult</p> <p>We make energy efficiency simpler, faster, and more accessible for everyone.</p>	<p>OhmConnect</p> <p>OhmConnect</p> <p>Use energy when it's cheapest and earn rewards for saving when it's dirty.</p>
<p>Conectric</p> <p>Conectric IoT</p> <p>Operational Asset Risk Management.</p>	<p>DIVIDEND</p> <p>Dividend Finance</p> <p>A smarter, faster way to finance home improvements and commercial upgrades.</p>	<p>ecobee</p> <p>ecobee</p> <p>A smart home technology helping customers measure, control, and cut costs.</p>	<p>EcoGreen</p> <p>EcoGreen Solutions</p> <p>We help companies save energy and cut costs.</p>	<p>Ecology Action</p> <p>Ecology Action</p> <p>Ecology Action is creating a thriving environment and low-carbon economy.</p>	<p>PACKETIZED</p> <p>Packetized Energy</p> <p>Packetized Energy makes electricity flexible.</p>
<p>edgewise</p> <p>edgewise Energy</p> <p>Helping property owners to improve resiliency, sustainability, and profit.</p>	<p>ELECTRUM</p> <p>Electrum</p> <p>Electrum provides a home electrification concierge marketplace.</p>	<p>ellevation</p> <p>Elevation Home Energy Solutions</p> <p>We are on a mission to Elevate the Home Energy Experience.</p>	<p>ECO</p> <p>Energy Conservation Options (ECO)</p> <p>Durix Motion</p> <p>Independent, owner-owned & stable licensed firm offering C&E energy management.</p>	<p>ERI</p> <p>Energy Resiliency Management</p> <p>Developing Sustainability through Energy Efficiency.</p>	<p>Sealed</p> <p>Sealed</p> <p>Smart-free home upgrades? Well Sealed, they're not just a fantasy.</p>
<p>ev energy</p> <p>evenergy</p> <p>A wireless platform that connects to EVs and EVSEs to deliver load flexibility.</p>	<p>EVERWATT</p> <p>EverWatt</p> <p>Stop wasting money on old lighting.</p>	<p>FlexCharging</p> <p>FlexCharging</p> <p>Electric Vehicles use here. Save money AND carbon emissions. It's EASY.</p>	<p>GENIUM</p> <p>Genium Energy Solutions</p> <p>Genium</p> <p>Genium is democratizing the energy stack across.</p>	<p>GROUSE ASSOCIATES</p> <p>Grouse Associates</p> <p>Experts in reducing embodied energy in your HVAC system.</p>	<p>swell</p> <p>swell Energy</p> <p>swell Energy is an energy and smart grid solutions provider.</p>
<p>Halo</p> <p>Halo</p> <p>Helps cities building residential and commercial energy services provider in NY.</p>	<p>HomeWorks Energy</p> <p>HomeWorks Energy</p> <p>We simplify energy conservation and solve home energy efficiency challenges.</p>	<p>Joule Smart</p> <p>Joule Smart</p> <p>Joule Smart will save you time, money, and give you peace of mind.</p>	<p>leap.</p> <p>Leap</p> <p>Leap is a marketplace for grid services, to help balance the grid.</p>	<p>NBSA</p> <p>National Resource Management</p> <p>If your business relies on refrigeration systems, NBSA has a way to help you.</p>	<p>voltus</p> <p>voltus</p> <p>Batter Energy, Move Cash.</p>

Assessment of whether the project is fulfilling the requirements for the project to remain at its current stage [*incubation*], or be considered for a different stage

- Demonstrate growth in the project's community, including
 - Growth in the number of commits to the project, number of project committers, and organizational diversity of contributions and committers (29 unique comitters, 3 + organizations). ✓
 - Production or planned production use of the project by at least two independent end users which, in the TAC's judgment, are of adequate quality and scope. ✓
- Technical Governance of the project is operational, as measured by:
 - A Technical Steering Committee with at least 5 members and a chairperson elected by the members, holding regular open meetings. [Next EEmeter TAC meeting item]
 - Achievement of the OpenSSF Best Practice badge at the 'Silver' Level [-]

Assessment of whether the project is fulfilling the requirements for the project to remain at its current stage [incubation], or be considered for a different stage

- Development of a growth plan, to be done in conjunction with their project mentor(s) at the TAC. This plan should address the following points: [-]
 - Since these metrics can vary significantly depending on the type, scope, and size of a project, the TAC has final judgment over the level of activity that is adequate to meet these criteria.
 - Release plans for the next 18 months.
 - Target end-users.
 - Identification of any regulatory or standards body requirements for deployment, and plans for implementation.
 - Plans for growth of project contributors and committers to support the growth plan.
 - Identification of any infrastructure resources needed to fulfill the growth plan.
- Presentation to the TAC of the project's growth, technical governance, and growth plan. [-]
- Receive the affirmative majority vote of the TAC and Governing Board [-]

Feedback on its experience as an LF Energy project, including benefits from being an LF Energy project and areas that the TAC and LFE staff can better support the project.

- **Experience as an LF Energy project has been positive.**
 - Support in explaining open-source and its value to our industry
 - Provides reference point of "acceptance" for the market
 - Provides access point for the industry from a trusted source
 - Policy positioning for open-source transparency
- **Key Benefits are both for the project but also for the company**
 - Branding
 - Nudging
 - Community with other projects
- **TAC / LFE Staff can support with considering transition, and promoting new model**
 - OpenEEmeter standing alone just doesn't do much
 - Still have scattered governance for multiple open-source methods and code
 - Bringing it under a single umbrella will help but still questions about how methods and code can best cohabitate in an LFE project

Marketing/PR/Events Updates

6:20 pm - 6:25 pm

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Marketing and PR Updates

dbrown@linuxfoundation.org
+1 415-420-7880

- Grants
 - EU Horizon grant application submitted last week - topic is P2P energy sharing tool. LFE is part of a consortium led by Anto which will build the tool if the grant is awarded.
 - Submitted application for Ford Foundation grant - topic is a research paper on open source AI for energy
 - Tentatively approved for Natural Resources Canada grant to produce a report on what Canadian utilities need to do to meet the goals of the energy transition - currently going through due diligence
- Cybersecurity for energy systems white paper draft has been completed and reviewed by LF Energy and OpenSSF SMEs; currently going through final edits before moving to design. Anticipate releasing this next month.
- Linux Foundation annual report - Submitted content prominently highlighting LF Energy
- Developing Seeed ReCharger case study and webinar with EVerest project (jointly with LF Zephyr project which is also used in the product)
- Developing plan for engagement with standards bodies (IEC, IEEE, etc.)
- Recent media coverage
 - [Smart Energy International - Linux Foundation introduces significant software releases](#)
 - [TFIR - Without Energy, You Don't Have Technology | Dan Brown – LF Energy](#)
- Use this [form](#) to submit any comms/marketing support requests

Events

Recent Events

- OpenUK Open Source for Sustainability Day - 14 Sept, Edinburgh
 - Dan spoke about the three recent research reports
- LF Europe Member Summit - 18 Sept, Bilbao
 - LF Energy hosted a table at the event - multiple new member prospects were generated
 - Lucian presented plenary session on LF Energy momentum
- SustainabilityCon at Open Source Summit Europe - 19-21 Sept, Bilbao
 - Hosted 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
 - Generated multiple new member prospects

Upcoming Events

- LF Energy Summit 2024
 - Developed preliminary budget
 - Finalizing details of date and location
 - Aim to release a sponsor prospectus by mid-November
- FOSDEM 2024 - 3-4 Feb, Brussels
 - Energy devroom proposal has been submitted
 - Also plan to partner with LF Europe on an application to host a stand at the event
- [Event tracker](#) - please review and add any additional opportunities

Upcoming Event CFPs

- [Enlit Europe - Nov 28-30 - Rolling submission deadline](#)
- [e-world Energy & Water - Feb 20-22, 2024 - Rolling submission deadline](#)
- [FOSS Backstage Berlin - March 4-5, 2024 - Submission deadline Nov 15](#)
- [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)
- [IEEE PES General Meeting Seattle - July 21-25, 2024 - Submission due Nov 8](#)

Training Course

Introduction to Open Source for Energy Stakeholders

- Online, self-paced course
- No cost to enroll
- Will pull from existing LF Training courses around open source introduction and best practices
- Need to build additional content specific to energy and LFE projects
- Require a primary SME to lead content development - suggestions?
- Volunteer committee can also assist, but a primary is required

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

- Annual Review - OpenLEADR [#24](#)
- Annual Review - OpenSTEF [#25](#)
- 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>



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