Technical Advisory Council (TAC) Meeting

9 January 2024
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?pass
  word=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#Te
  chnicalAdvisory Council-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 - Synthetic Energy Data Project Proposal
● 5:40 pm - 6:00 pm - EVerest Annual Review
● 6:00 pm - 6:20 pm - RTDIP 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 - 5:20 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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<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>
</tr>
<tr>
<td>openLEADR</td>
<td>Lonneke Driessen &amp; Stan Janssen, OpenADR</td>
</tr>
<tr>
<td>SEAPATH</td>
<td>Éloï Bail, Savoir-faire Linux</td>
</tr>
<tr>
<td>Grid Capacity Map</td>
<td>Per Lysemose Hansen, Energinet</td>
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<tr>
<td>Shapeshifter</td>
<td>Robben Riksen, Alliander</td>
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<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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<tr>
<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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<tr>
<td>Real Time Data Ingestion Platform (RTDIP)</td>
<td>Bryce Bartmann, Shell</td>
</tr>
<tr>
<td>TROLIE</td>
<td>Christopher Atkins, MISO Energy</td>
</tr>
<tr>
<td>Battery Data Alliance</td>
<td>Gabe Hege, AMPLabs</td>
</tr>
<tr>
<td>GRIP (Grid Resilience and Intelligence Platform)</td>
<td>Alyona Teybar, MASc</td>
</tr>
<tr>
<td>Open Sustainable Technology</td>
<td>Tobias Augspurger, Prototypes</td>
</tr>
<tr>
<td>CitrineOS</td>
<td>Thana Paris, S44</td>
</tr>
<tr>
<td>covXtreme</td>
<td>Sachin Bhakar, Shell</td>
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**LF Energy**

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<table>
<thead>
<tr>
<th>Working Group</th>
<th>Work Group Lead(s)</th>
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<tbody>
<tr>
<td>AI Working Group</td>
<td>Jonas van den Bogaard, Alliander</td>
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<tr>
<td>Archimate Working Group</td>
<td>Alexandre Pariost</td>
</tr>
</tbody>
</table>
## Project Review Cycle

### Past Reviews

<table>
<thead>
<tr>
<th>Project</th>
<th>Current Level</th>
<th>Initially Accepted</th>
<th>Last Review Date</th>
<th>Next Review Date</th>
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<tbody>
<tr>
<td>FledgePOWER</td>
<td>Incubation</td>
<td>February 11, 2021</td>
<td>March 21, 2023</td>
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<td>July 25, 2023</td>
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<td>April 27, 2021</td>
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### Upcoming Reviews

<table>
<thead>
<tr>
<th>Project</th>
<th>Current Level</th>
<th>Initially Accepted</th>
<th>Last Review Date</th>
<th>Next Review Date</th>
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<tr>
<td>EVerest</td>
<td>Early Adoption</td>
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<td>Dynawo</td>
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<td>OpenFIDO</td>
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<td>January 30, 2024</td>
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<td>Hyphae</td>
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<td>February 7, 2023</td>
<td>February 20, 2024</td>
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<td>Sandbox</td>
<td>February 7, 2023</td>
<td>February 20, 2024</td>
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<tr>
<td>Archimate Working Group</td>
<td>Active</td>
<td>October 4, 2022</td>
<td>11/28/2023</td>
<td>11/05/2024</td>
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<tr>
<td>AI Working Group</td>
<td>Active</td>
<td>September 26, 2023</td>
<td>9/17/2024</td>
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</table>
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

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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)

- We’d like to schedule guest speakers/topics that would be of interest to TAC members and TSC leads.

- 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
  - ACTION: Projects lead to work with John on transitioning: FledgePOWER, Grid Capacity Map, Grid eXchange Fabric, Hyphae, OpenEEmeter, PowSyBl, openLEADR, Archimate WG

- Future of Slack; Zulip being trialed by EVerest (https://github.com/lf-energy/tac/issues/48)
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 (5 projects out of compliance)

**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: 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:
- 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.
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
Synthetic Energy Data Project Proposal

5:20 pm - 5:40 pm
ACCELERATING GLOBAL ENERGY SYSTEMS RESEARCH WITH OPEN ACCESS TO SYNTHETIC ENERGY DATA
INTRODUCTIONS

GUS CHADNEY
Data Lead

SHENG CHAI
Senior Data Scientist

CENTRE FOR NET ZERO
An impact-driven research unit founded by Octopus Energy
THE DEMAND-SIDE CHALLENGE

DEMAND FLEXIBILITY IS ESSENTIAL

The massive uptake of intermittent renewable energy sources will result in a need of 500 GW of demand flexibility globally by 2030, according to the International Energy Agency.

HOUSEHOLD CONSUMPTION IS KEY

As heat and transport electrify, we need to understand household consumption intimately in order to predict usage and optimise flexibility.

WE NEED SMART METER DATA

Granular smart meter data will unlock pioneering research and innovative data products to plan for electrification and unlock demand flexibility.
ACCESS TO RAW SMART METER DATA IS ESSENTIAL FOR ENERGY RESEARCH

SYNTHETIC DATA ALLEVIATES CONSUMER PRIVACY ISSUES

AN OPEN COMMUNITY FOR SYNTHETIC SMART METER DATA WILL ACCELERATE RESEARCH EFFORTS
CUTTING-EDGE TECHNIQUES

Uses a combination of Variational Autoencoders (VAEs) and Gaussian Mixture Model (GMM) to provide best in class synthetic data.

TRAINED ON REAL-WORLD DATA

Faraday was trained on 7 million day profiles over a 1 year period from 20K Octopus Energy UK households.

SUPPORTS ARCHETYPES

Household profiles can be generated with different LCT mixtures, seasonality and EPC ratings.
Faraday Alpha V3

About Faraday Alpha V3

The latest version of Faraday Alpha is capable of generating synthetic household smart meter profiles given urban inputs. It works the same as earlier versions: users create a population of household smart meter data, which are then used to train a model that generates synthetic profiles.

Note however that generating household-level profiles is computationally expensive and there are several limitations in this version:

1. Only the following inputs are available:
   1. Flyway configuration
   2. Property type
   3. Property characteristics
   4. LCZ configuration
   5. Net meter type
   6. Occupancy

2. Generating profiles takes approximately 1-2 minutes per profile for 1000 or more profiles.

3. Generating 1000 profiles may take up to 2-3 minutes before running out.

4. We recommend using the tool to generate more profiles for the most accurate results and to address model limitations.

5. If your input data is not available, please contact us.

For feedback or questions, please email us at support@faraday.com.
USE CASES

CURRENT

● TEED Digitisation Project by University of Birmingham
● Better Home Leeds Project by ARUP
● Commercial research projects by industry consultancies such as Parity Projects and Turley
● Other academic research projects by Phds and Postdocs from University of Manchester and King’s College London

POTENTIAL

● Regional, national and global grid “digital twins”
● Future energy system simulations
● Designing smart tariffs
● Greenfield grid design
● Extreme weather resilience planning
● Scenario planning
WHY AN OPEN COMMUNITY?

**STANDARDISATION**
We would like to drive consensus on what “good” looks like for synthetic smart meter data, ensuring quality and privacy.

**COMPETITION**
The performance and ability of the generative algorithms will increase massively if contribution is open.

**VARIABILITY**
Consumption profiles vary globally, multiple contributors will ensure we capture all edge cases for research.

**VOLUME**
Synthetic smart meter data needs to be generated at scale, open-sourcing the algorithms will encourage all holders of real data to do this.
SYNTHEtic DATA ECOSYSTEM

MODEL REPOSITORY

- Standardised APIs / framework to enable:
  - Model training with varied algorithms on arbitrary data sets
  - Evaluation of models to benchmark consistently and ensure quality

- Host algorithm / code for generative models that are vetted against a common evaluation framework

- Community can contribute towards algorithm / evaluation framework as research in the area progresses

DATA REPOSITORY

- Data owners can download algorithm/ code from “Model Repository” to train on their proprietary data to generate synthetic data

- Data owners can donate synthetic data to a Data Repository
SYNTHETIC DATA ECOSYSTEM

Model Researchers

1. Community members make a Pull Request to the "Model Repository" with an algorithm for their generative model.

2. Apply the algorithm on an open-source dataset, e.g., Low Carbon London, and produce results.

"Model Repository" to Train and Evaluate Models with standard APIs

4. Approve/Merge pull requests of model algorithm into main branch

3. Score the algorithm according to established evaluation framework and publish results in the benchmark table.

Data owners

5. Download library and choose algorithms that suit their use case to generate synthetic data of their own and donate the data.

"Data Repository" to host synthetic data

Data users

6. Download synthetic data for their own use cases/applications.
WHY LF ENERGY?

COMMUNITY
Leverage LF Energy’s expertise creating and growing open-source communities

GOVERNANCE
Build the management framework to ensure quality controls and instil confidence

LICENSING
Navigate and implement correct licenses for usage of software and data

MARKETING
Outbound marketing support to grow community with workshops and events
NEXT STEPS

DEFINITION OF GOOD
We will be publishing a technical paper defining the definition of good that looks at fidelity, utility and privacy metrics.

CONTINUED DEVELOPMENT
We will continue to improve our own generator Faraday, as well as lay the groundwork for the synthetic data ecosystem.

OUTREACH
We will be building up our contact book of interested parties, and plan small, focused workshops.
THANK YOU
EVerest Annual Review

5:40 pm - 6:00 pm
RTDIP Annual Review

6:00 pm - 6:20 pm
Annual Review for RTDIP

2023
Easy access to high volume, historical and real time process data for analytics applications, engineers, and data scientists wherever they are.

**Use Cases**

- Process time series data for preventive maintenance management

**Technical Summary**

Key components are:

- The Delta Ingestion engine used to process streaming data from streaming sources and files stored in cloud storage into Delta format. The data ingested is typically sourced from PI Historians, OPC UA Servers, IoT Devices 2.
- Python SDK that enables data consumers to read and query raw, sampled, interpolated or time weighted averages of the data stored in Delta3.
- REST APIs that are wrappers for the Python SDK that enable developers in non-python languages to consume the data.

Contributed by Shell
Contributions

Active contributors

40

↓ 13% (5)

Dec 11 Dec 24 Jan 06

Most active

1. Rodalyn Barce 48 activities
2. Ing Ching Ling 42 activities
3. Amber-Rigg 23 activities
4. Bryce Boyd 4 activities
5. IW-SS 3 activities

Active organizations

190

↑ 7% (12)

Dec 11 Dec 24 Jan 06

Most active

1. Shell International Petroleum Company 4 contributors
2. Z Lab Corporation 1 contributor
3. Plus Power 1 contributor
4. Github 6 contributors
5. innowatts.com 1 contributor

Source: https://cm.lfx.dev/?projectGroup=278927c3-0638-4ae3-8901-5907f2b0ca12
Organizations contributing and/or using in production

Shell

Innowatts™

Honeywell

J.P. Morgan

LF Energy

Datadicks
ArchiMate Architecture Diagram
Key Achievements in the past year

- RTDIP is deployed at **86** energy sites globally, including:
  - 9 Wind & Solar Renewable sites
  - 20 Energy & Chemical manufacturing plants
  - 8 Integrated Gas processing sites
  - 12 Research sites
  - 37 Exploration platforms
- Ingests 5 million sensors in real time into a lakehouse containing ~6trln time series data points at Shell
- Integrated with OpenStef in v0.9.6
- ~150k downloads in 2023, ~1k a day currently
- In discussions with

**Summary**

PyPI link
https://pypi.org/project/rtdip-sdk

Total downloads
144,662

Total downloads - 30 days
32,321

Total downloads - 7 days
6,412
Areas the project could use help on

- RTDIP is gaining traction in the Oil & Gas sector but would like to get into more of the Operator and Utilities sector of Energy. Any assistance to begin discussions with some of the LF Energy member companies around possible adoption of RTDIP would be very helpful.
- 2023 was focused on technical delivery and assurance, 2024 has much more focus on energy sector and technology sector adoption. Any advice or insights to how other projects have increased adoption or approaches to do so would be much appreciated.
Feedback on working with LF Energy

- This was the first full year of Shell being a member of LF Energy. It’s been fantastic to see the positivity within Shell to be a member of LF Energy and that it has created an avenue for technical resources at Shell to be able to contribute to open source.
- The LF Energy community have been incredibly open and inviting from the outset.
- The LF Energy Summit was a brilliant way to connect with fellow members and was my personal highlight of the year.
- Would like to see more integration between projects and a more holistic overview of how the different projects provide an Energy solution.
Marketing/PR/Events Updates

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

- Currently in process of building formal 2024 marketing plan
- JOET/EVerest partnership to be announced week of Jan 15, followed by webinar week of Jan 29
- Power Grid Model workshop taking place in person and virtually Jan 18
- CoMPAS meetup at RTE Paris taking place Jan 22-23
- Developing Seeed ReCharger case study and webinar with EVerest project (jointly with LF Zephyr project which is also used in the product) - targeting February
- Use this [form](#) to submit any comms/marketing support requests

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Recent Media Coverage

- TFIR - Grid eXchange Fabric (GXF) Communication Platform Helps Monitor Devices In The Field | Robert Tusveld
- TFIR - Fostering Collaboration In Open Source Communities | ben van’t ende – Alliander
- SecurityBriefAsia - OpenSSF announces new members & secure software development principles
- TFIR - LF Energy Adds Five New Open Source Technical Projects
- ITBrief - LF Energy unveils new open source projects for energy transition
- ERP Today - The open source energy infrastructure stack strengthens
- PRNewswire - This Week in Energy News: 11 Stories You Need to See
- Power Electronics - Revolutionizing Energy Infrastructure: The Rise of Fully Digital Grids (Podcast)
- Microgrid Media - Revolutionizing the Energy Landscape: The Emergence of Microgrids
- North American Clean Energy - LF Energy Open Sustainable Technology Project Launches ClimateTriage.com to Connect Developers with Impactful Sustainability Projects
- Climate Tech Review - ClimateTriage is GitHub for Climate Action
- EnergyCentral - New Resource to Connect Developers with Technical Projects Focused on Sustainability
- TFIR - Open Source Can Help With How We Consume And Produce Electricity | Luis Maria Zamarreño
- TFIR - LF Energy Is Bringing Different Players Together To Combat Energy Crisis | Christophe Villermer – Savoir-faire Linux
Upcoming Event CFPs

- **e-world Energy & Water** - Feb 20-22, 2024 - Rolling submission deadline
- **Smart Grid Tech Week** - Mar 18-22, 2024 - Rolling submission deadline (email alex.matthews@smartgrid-forums.com with speaking proposals)
- **Carbon Tracking & Reporting** - March 26-27, 2024 - Rolling submission deadline
- **Energy Thought Summit** - April 15-18, 2024 - Rolling submission deadline
- **Embedded Open Source Summit** - April 16-18, 2024 - Submission deadline Jan 14
- **Open Source Summit North America** - April 16-18, 2024 - Submission deadline Jan 14
- **CIRED Vienna** - June 19-20, 2024 - Submission deadline Dec 8
- **MOVE London** - June 19-20, 2024 - Rolling submission deadline (email cormac.martin@terrapinn.com with speaking proposals)
- **IEEE PES General Meeting Seattle** - July 21-25, 2024 - Submission due Nov 8
- **The Smarter E Europe Conferences Munich** (4 co-located conferences) - June 18-21, 2024 - Submission due Jan 10
- **T&D World Live** - October 1-3, 2024 - Submissions due Feb 15
Ambassador Program

- Applications have now closed for Ambassador Program
  - [https://lfenergy.org/newsroom/ambassador-program/](https://lfenergy.org/newsroom/ambassador-program/)
- Six applications were received
- 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 will circulate a spreadsheet containing all the applications to the TAC, and request you all rate them by the end of this month
Closing and Next Meeting

6:25 pm - 6:30 pm
Next TAC Meeting

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

- Project Proposal - Sylva Project Proposal
- Annual Review - OpenFIDO Annual Review
- Annual Review - Dynawo Annual Review
- 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