Antitrust Policy Notice

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Examples of types of actions that are prohibited at Linux Foundation meetings and in connection with Linux Foundation activities are described in the Linux Foundation Antitrust Policy available at [linuxfoundation.org/antitrust-policy](http://linuxfoundation.org/antitrust-policy). If you have questions about these matters, please contact your company counsel, or if you are a member of the Linux Foundation, feel free to contact Andrew Updegrove of the firm of Gesmer Updegrove LLP, which provides legal counsel to the Linux Foundation.
Remembering Shuli

Anyone wishing to leave a memorial can do so at

Those wishing to make a donation in her memory can do so at
https://crowdfunding.lfx.linuxfoundation.org/initiative/aaa421b9-c10b-4e68-9233-26608cf54187
Agenda

Opening (15 Minutes) 5:00 - 5:15 pm
- Landscape updates
- TAC Sponsors for projects
- Summary of last TAC and Board meeting

TAC Business (75 Minutes) 5:15-6:25 pm
- Power Grid Model Presentation 5:15- 5:35 pm
- Hyphae Annual Review 5:35-6:00 pm
- Marketing for Projects 6:00- 6:10 pm

Closing and Next Meeting (5 Minutes) 6:10- 6:15 pm
### Project Review Cycle

<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>Hyphae</td>
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<td>April 19, 2022</td>
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<td>October 17, 2023</td>
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<td>October 25, 2022</td>
<td>November 7, 2023</td>
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<tr>
<td>OpenSTEF</td>
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<td>Incubation</td>
<td>November 2, 2021</td>
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**The Power of Together**
# TAC Voting Members

New members in bold

<table>
<thead>
<tr>
<th>Full Name</th>
<th>Account Name</th>
<th>Appointed By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boris DOLLEY</td>
<td>RTE (Reseau de Transport dElectricite)</td>
<td>Vote of TSC Committee - OperatorFabric</td>
</tr>
<tr>
<td>Anne Tilloy</td>
<td>RTE (Reseau de Transport dElectricite)</td>
<td>Vote of TSC Committee - PowSyBI</td>
</tr>
<tr>
<td>Carmen Best</td>
<td>Recurve</td>
<td>Vote of TSC Committee - OpenEEmeter</td>
</tr>
<tr>
<td>Jonas van den Bogaard</td>
<td>Alliander</td>
<td>Membership Entitlement</td>
</tr>
<tr>
<td>Maarten Mulder</td>
<td>Alliander</td>
<td>Vote of TSC Committee - GXF</td>
</tr>
<tr>
<td>Benoît Jeanson</td>
<td>RTE (Reseau de Transport dElectricite)</td>
<td>Membership Entitlement</td>
</tr>
<tr>
<td>Antonello Monti</td>
<td>RWTH Aachen University</td>
<td>Vote of TSC Committee - SOGNO</td>
</tr>
<tr>
<td>Art Pope</td>
<td>Google</td>
<td>Membership Entitlement</td>
</tr>
<tr>
<td>Avi Allison</td>
<td>Microsoft</td>
<td>Membership Entitlement</td>
</tr>
<tr>
<td>Bryce Bartmann</td>
<td>Shell</td>
<td>Membership Entitlement</td>
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</table>
The Power of Together

LF Energy Hosted Project and Working Group Leads

Changes in bold

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Lead(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PowSyBI</td>
<td>Anne Tilloy, RTE</td>
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<tr>
<td>OperatorFabric</td>
<td>Boris Dolley, RTE</td>
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<tr>
<td>OpenEEmeter</td>
<td>Carmen Best, Recurve</td>
</tr>
<tr>
<td>GXF</td>
<td>Maarten Mulder, Alliander</td>
</tr>
<tr>
<td>SOGNO</td>
<td>Antonello Monti, RWTH Aachen University</td>
</tr>
<tr>
<td>CoMPAS</td>
<td>Frederic Fouseret, RTE &amp; Sander Jansen, Alliander (TAC Representative)</td>
</tr>
<tr>
<td>FledgePOWER</td>
<td>Akli Rahmoun, RTE</td>
</tr>
<tr>
<td>Hyphae</td>
<td>Asimena Korompili, RWTH Aachen University</td>
</tr>
<tr>
<td>openLEADR</td>
<td>Lonneke Driessen &amp; Stan Janssen, OpenADR</td>
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<tr>
<td>SEAPATH</td>
<td>Aurelien Watare, RTE</td>
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<tr>
<td>Grid Capacity Map</td>
<td>Per Lysemose Hansen, Energinet</td>
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<tr>
<td>Shapeshifter</td>
<td>Jelle Wijnja, Alliander</td>
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<tr>
<td>OpenSTEF</td>
<td>Frank Kreuwel, Alliander</td>
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<td>EVerest</td>
<td>Marco Möller, PIONIX</td>
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<tr>
<td>OpenGEH</td>
<td>Per Lysemose Hansen, Energinet</td>
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<tr>
<td>FlexMeasures</td>
<td>Nicolas Höning, Seita Energy Flexibility B.V.</td>
</tr>
<tr>
<td>OCPP Cloud Connector</td>
<td>Rebecca Wolikoff, Chargenet</td>
</tr>
<tr>
<td>Aras</td>
<td>David Chassin, SLAC</td>
</tr>
<tr>
<td>Dynawo</td>
<td>Marco Chiaramello, Benoît Jeanson, RTE</td>
</tr>
<tr>
<td>OpenFIDO</td>
<td>David Chassin, SLAC</td>
</tr>
<tr>
<td>Full Architecture WG (FAWG)</td>
<td>Benoît Jeanson, RTE</td>
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<tr>
<td>Real Time Data Ingestion Platform (RTDIP)</td>
<td>Bryce Barfmann, Shell</td>
</tr>
<tr>
<td>Carbon Data Specification Consortium (CDSC)</td>
<td>TBD</td>
</tr>
</tbody>
</table>
Landscape now with more project info!

We are using the LF Energy Landscape to showcase more project information:

- Mailing List/Slack Channel
- LFX Insights
- SBOM
- Wiki
- TSC Meeting Notes
- Calendar
- Contribution Guidelines

**ACTION:** Project leads please review your entry and ensure it is accurate; issue PR for any changes needed.
The Power of Together

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.”

ASK: Volunteer to be a TAC sponsor for a project

<table>
<thead>
<tr>
<th>Project</th>
<th>Current Level</th>
<th>TAC Sponsor</th>
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</thead>
<tbody>
<tr>
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<td>Carbon Data Specification Consortium</td>
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</tr>
<tr>
<td>SOGNO</td>
<td>Early Adoption</td>
<td>Antonello Monti</td>
</tr>
</tbody>
</table>
Updating overview deck

We are working to update the LF Energy overview deck to include a slide for each project.

**ASK:** Please provide to [servicedesk.lfenergy.org](http://servicedesk.lfenergy.org)

- Technical Summary (max 100 words)
- Top Use Cases (max 3)
- Latest release info (including link)
- Link to architectural overview diagram
Summary of Last TAC Meeting


Updates from the Board
Agenda

Opening (15 Minutes) 5:00 - 5:15 pm
- Landscape updates
- TAC Sponsors for projects
- Summary of last TAC and Board meeting

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- Power Grid Model Presentation 5:15- 5:35 pm
- Hyphae Annual Review 5:35-6:00 pm
- Marketing for Projects 6:00- 6:10 pm

Closing and Next Meeting (5 Minutes) 6:10- 6:15 pm
Power Grid Model Presentation
**Power Grid Model**
A High-Performance Distribution Grid Calculation Library

Tony Xiang, PhD | tony.xiang@alliander.com
Summary

• Power Grid Model: an open-source project for distribution power system calculation.
  - https://github.com/alliander-opensource/power-grid-model

• In this presentation
  - Why a new project?
  - What is Power Grid Model?
  - How does it perform?
  - Deployment inside Alliander
  - Road to open-source
Who are we? Who am I?

Yu (Tony) Xiang, PhD
Lead Scientific Engineer
Chapter Advanced Analytics
@Alliander

Guest Lecturer
@Eindhoven University of Technology

Peter Salemmink, MSc
Data Scientist
Chapter Advanced Analytics
@Alliander

26-1-2023
Traditional workflow for power system analysis

Data files → Commercial software* → Built-in function* → Results

Modern workflow for power system analysis

Database → Programming/scripting → Cloud deployment

Publish results

input_data = import_data()
model = Model(input_data)
result = model.calculate()
Modern workflow for power system analysis

Publish results

Database

input_data = import_data()
model = Model(input_data)
result = model.calculate()

Programming/scripting

Cloud deployment

What makes a good power system calculation model/library?
## Why a new library?

<table>
<thead>
<tr>
<th>Feature</th>
<th>Commercial software</th>
<th>Existing open-source solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power system calculation functionalities</td>
<td>Good</td>
<td>Good</td>
</tr>
<tr>
<td>Asymmetric calculation support</td>
<td>Good</td>
<td>Mediocre</td>
</tr>
<tr>
<td>Easy to use and well documented software API</td>
<td>Mediocre</td>
<td>Good</td>
</tr>
<tr>
<td>Performant on large dataset and/or batch calculation</td>
<td>Depends?</td>
<td>Mediocre</td>
</tr>
<tr>
<td>Efficient parallelization</td>
<td>Depends?</td>
<td>Mediocre</td>
</tr>
<tr>
<td>Cross-platform and scalable in cloud</td>
<td>Mediocre</td>
<td>Good</td>
</tr>
</tbody>
</table>

26-1-2023
Alliander in-house library: Power Grid Model

• Power System Calculation Functionalities
• Symmetric and asymmetric calculation
• Power flow
  • Newton-Raphson
  • Iterative current (equivalent to backwards/forwards for radial network)
  • Linear current (approximation)
  • Linear impedance (approximation)
• State estimation
  • Iterative linear method
Alliander in-house library: Power Grid Model

• Efficient implementation in C++
  • Native shared-memory multi-threading for parallelization in batch calculations

• API in Python
  • Stable and easy-to-use
  • Well-documented

• Cross-platform
  • Publish binary Python packages in official PyPI
  • https://pypi.org/project/power-grid-model/
  • Built for Windows (x64), Linux (x64/arm64), macOS (x64/arm64)
Model Validation

• Validation of the library against reference models with 80+ test cases
  • Hand calculation
  • Vision
  • Gaia
  • PowerFactory
  • PandaPower

• Continuous validation as part of CI pipeline in GitHub Actions
Performance Benchmark

• Compare performance of Power Grid Model and PandaPower
  • https://github.com/alliander-opensource/power-grid-model-benchmark
  • 1000 nodes radial network
  • Time-series symmetric and asymmetric power flow calculation in 1000 steps
  • Testing environment: Intel i7-8850H, 40 GB RAM, single-thread in Linux (WSL)
  • Library version: power-grid-model 1.4.0, pandapower 2.10.1
Performance Benchmark

Relative performance for symmetric calculation

<table>
<thead>
<tr>
<th>Method</th>
<th>Relative Performance</th>
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<tbody>
<tr>
<td>PandaPower Newton-Raphson</td>
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<tr>
<td>PGM Newton-Raphson</td>
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<tr>
<td>PGM Iterative Current</td>
<td>45</td>
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<tr>
<td>PGM Linear Impedance</td>
<td>68</td>
</tr>
<tr>
<td>PGM Linear Current</td>
<td>69</td>
</tr>
</tbody>
</table>
Performance Benchmark

Relative performance for asymmetric calculation

- **PandaPower Newton-Raphson**: 1
- **PGM Newton-Raphson**: 69
- **PGM Iterative Current**: 247
- **PGM Linear Impedance**: 242
- **PGM Linear Current**: 486

26-1-2023
Current Deployment

• Data conversions
  • CIM
  • Vision
  • GridCal
  • Gaia (pending)
  • PandaPower (pending)
Current Deployment
A fundamental building block for Alliander

- Deployed in 10+ applications inside Alliander
Road to Open Source

- Power Grid Model is an open-source project
  - https://github.com/alliander-opensource/power-grid-model
- Ways of collaboration and contribution
  - Use the library, give feedback, report bugs
  - Provide validation test cases
  - Improve python API
  - Improve C++ core
    - (new algorithms and models)

https://github.com/alliander-opensource/power-grid-model/blob/main/CONTRIBUTING.md
Road to Open Source

• Current active partners
How to get started?

- Check out Alliander Open Source website

- Visit Power Grid Model Github community
  https://github.com/alliander-opensource/power-grid-model

- Mail the team: dynamic.grid.calculation@alliander.com

- Tutorial workshop
  https://github.com/alliander-opensource/power-grid-model-workshop

Power Grid Model TSC & maintainers

- Tony Xiang (Chair)
- Werner van Westering
- Peter Salemink
- Bram Stoeller
- Nitish Bharambe
- Jonas van den Bogaard

26-1-2023
Annual Review for HYPHAE
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](https://github.com/hyphae)

**Website:** [https://www.lfenergy.org/projects/hyphae/](https://www.lfenergy.org/projects/hyphae/)

**Artwork:** N/A

**Mailing lists:**
- [https://lists.lfenergy.org/g/hyphae-general](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

The Power of Together
Key Achievements in the past year (1/2)

- Controller for converters in DC microgrid
  - Plug-and-play capability
  - Easy to customise and integrate to other systems

- Hardware set-up for DC microgrid control
  - Use for testing of control in real control device
  - Plan to be used also with real power-electronics devices
Key Achievements in the past year (2/2)

● Promotion of LFE Hyphae project to FEN consortium
● FEN funding for support of Hyphae activities
  ○ Code generation of converter controller
  ○ OPF Python code as microservice in SOGNO platform
    ■ Connection with LFE SOGNO project
  ○ Converter modules for hardware setup of microgrid
Growth Plan

● Connection with other projects on DC distribution grids
  ○ Hyperride project
  ○ Junior research group on design and verification of control & protection in DC systems

● Promotion of Hyphae project in FEN planning of third-phase projects starting in March 2023
  ○ Promotion of Hyphae topics
  ○ Stronger collaboration with FEN industry partners for contribution to Hyphae project
Areas the project could use help on

- Enhance collaboration with SOGNO
  - Information input to Hyphae about needed system operation functions for microgrids and distribution systems (from viewpoint of system operators)
    - to be produced in Hyphae as open-source control/energy management solutions
Feedback on working with LF Energy

- Motivation to turn into open source code (change of mindset)
- Becoming more familiar with practical considerations of industry and system operators
- Obtaining knowledge about relevant work in similar LFE projects and becoming motivated from their achievements (benefit from open source)
TAC Open Discussion
Marketing for Projects
Marketing and PR Updates

- Digital transformation readiness research survey is closed; analysis in process
- Energy Devroom at FOSDEM was a huge success - large queues outside the room at all times. Photos and recap blog to come next week.
- Currently hosting LF Energy table at State of Open Con - Feb 7-8 in London
- Opportunity to attend Tech for Climate Action in Washington, DC on March 16 at no cost: http://www.techforclimateaction.com/us

Owned 2023 Events

- SustainabilityCon at Open Source Summit (CFP now closed)
  - May 10-12 - Vancouver; Sept 19-21 - Bilbao
- LF Energy Summit (CFP closes Feb 17)
  - June 1-2 - Paris, hosted by RTE
  - Sponsorships available; reach out to Dan to book
- Embedded Open Source Summit (CFP closes Feb 10)
  - June 27-30 - Prague (One-day LF Energy track focused on our embedded projects on June 30)

- Outreach committee kickoff meeting took place Jan 26 - Minutes
- New form now available for all comms/marketing requests (blogs, videos, case studies, etc.): https://github.com/lf-energy/foundation/issues/new/choose

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

Opening (15 Minutes) 5:00 - 5:15 pm
- Landscape updates
- TAC Sponsors for projects
- Summary of last TAC and Board meeting

TAC Business (75 Minutes) 5:15-6:25 pm
- Power Grid Model Presentation 5:15- 5:35 pm
- Hyphae Annual Review 5:35-6:00 pm
- Marketing for Projects 6:00- 6:10 pm

Closing and Next Meeting (5 Minutes) 6:10- 6:15 pm
Next TAC Meeting

The next meeting of the LF Energy TAC is scheduled for 28 February 2023 at 8:00 am US Pacific Time/11:00 am US Eastern Time/5:00 pm Central European Time.

NOTE: New meeting invite for series titled ‘LF Energy TAC meeting (2023)’ from ‘LF Energy (LFE) - Meetings <meetings@lx.linuxfoundation.org>’. Register for meeting at: https://zoom-lfx.platform.linuxfoundation.org/meeting/98588947265. Please remove all other meeting invites.

Agenda will include:

- Recap of last Board Meeting and TAC
- FledgePOWER Annual Review
Thank you!