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Linux Foundation meetings involve participation by industry competitors, and it is the intention of the Linux Foundation to conduct all of its activities in accordance with applicable antitrust and competition laws. It is therefore extremely important that attendees adhere to meeting agendas, and be aware of, and not participate in, any activities that are prohibited under applicable US state, federal or foreign antitrust and competition laws.

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# 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>Arjan Stam</td>
<td>Alliander</td>
<td>Membership Entitlement</td>
</tr>
<tr>
<td>Jonas van den Bogaard</td>
<td>Alliander</td>
<td>Vote of TSC Committee - GXF</td>
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<tr>
<td>Benoît Jeanson</td>
<td>RTE (Reseau de Transport dElectricite)</td>
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<tr>
<td>Antonello Monti</td>
<td>RWTH Aachen University</td>
<td>Vote of TSC Committee - SOGNO</td>
</tr>
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</table>
# LF Energy Hosted Project Leads

Changes in **bold**

<table>
<thead>
<tr>
<th>Project</th>
<th>Project Lead(s)</th>
</tr>
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<tbody>
<tr>
<td>PowSyBi</td>
<td>Anne Tilloy, RTE</td>
</tr>
<tr>
<td>OperatorFabric</td>
<td>Boris Dolley, RTE</td>
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<tr>
<td>OpenEEmeter</td>
<td>Carmen Best, Recurve</td>
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<tr>
<td>GXF</td>
<td>Jonas van den Bogaard, Alliander</td>
</tr>
<tr>
<td>SOGNO</td>
<td>Antonello Monti, RWTH Aachen University</td>
</tr>
<tr>
<td>EM2</td>
<td>none</td>
</tr>
<tr>
<td>CoMPAS</td>
<td>Frederic Fouseret, RTE</td>
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<tr>
<td>FledgePOWER</td>
<td>Akli Rahmoun, RTE</td>
</tr>
<tr>
<td>Hyphae</td>
<td>Kotaro Jinushi, Sony ESL</td>
</tr>
<tr>
<td>openLEADR</td>
<td>Lonneke Driessen &amp; Stan Janssen, OpenADR</td>
</tr>
<tr>
<td>SEAPATH</td>
<td>Eloi Bail, Savoir-faire Linux</td>
</tr>
<tr>
<td>Grid Capacity Map</td>
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<td>Shapeshifter</td>
<td>Jelle Wijnja, Alliander</td>
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<tr>
<td>OpenSTF</td>
<td>Frank Kreuwel, Alliander</td>
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<tr>
<td>EVerest</td>
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<tr>
<td>Green Energy Hub</td>
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Agenda

Opening (15 Minutes)
- Summary of last TAC meeting & Updates from the Board Meeting
- Upcoming community meetings of interest
- Landscape updates
- TAC Sponsors for projects

TAC Business (50 Minutes)
- FlexMeasures project proposal

Outreach updates (10 Minutes)

Closing and next meeting (5 Minutes)
Summary of last TAC meeting


Updates from the Board
Upcoming community meetings of interest

- If interested in participating in Security WG meetings, please joining the mailing list at https://lists.lfenergy.org/g/security
- CI/CD working group meeting - when to schedule next meeting?
  - Details of work so far at https://wiki.lfenergy.org/pages/viewpage.action?pageId=18311586
  - Mailing list at https://lists.lfenergy.org/g/cicd with meeting invites.
- Please share others!
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**
Special Interest Groups/Working Group plan

Currently tracking 17 Special Interest Groups and/or Working Groups. See attached Exhibit A with the current list.

Proposed actions:

• Assess which groups are still active; archive previous groups.
• Identify leader(s) for each active group.
• Work with each group to establish a charter outlining...
  • Purpose
  • Goals
  • Non-goals
  • Deliverables
• Ensure each group has collaboration infrastructure, including...
  • Mailing list
  • Calendar
  • Wiki space for meeting notes
  • Zoom account access
• Add groups to the annual review schedule
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.
Agenda

Opening (5 Minutes)
- Summary of last TAC meeting & Updates from the Board Meeting
- Upcoming community meetings of interest
- Landscape updates

TAC Business (40 Minutes)
- FlexMeasures project proposal

Outreach updates (10 Minutes)

Closing and next meeting (5 Minutes)
FlexMeasures project proposal
FlexMeasures

Rapid & scalable energy flexibility services for/by ESCOs

LF Energy TAC meeting, 2 Nov 2021
"Flexibility is the grid’s ability to manage variability and volatility to balance supply and demand."

ACCENTURE

"Demand flexibility uses communication and control technology to shift electricity use across hours of the day."

ROCKY MOUNTAINS INSTITUTE
energy flex specialists

Where's your data?

asset owners & operators

Who are you?

Scaling is hard!
ESCOs are the bridges we need!

Energy flex specialists

Asset owners & operators

Relationship data
Our customers:
Energy Service Companies (ESCOs)

Market size: USD 29 billion, growing 8% / year

Examples:
Metering companies, real estate developers, microgrid developers, car charging station operators, business parks, energy cooperatives...
ESCos & implicit distributed flexibility
ESCos & explicit distributed flexibility
Many services?

The needs in energy flexibility service implementation change with:

- type of use
- type of customer
- sector
- connection/grid
- markets
- storage?
- culture!
- etc.
Energy flexibility services: crucial, but expensive.

ESCos want to become active, but fear vendor lock-in or high costs.
FlexMeasures: Design goal

Build real-time energy flexibility services, *rapidly* and *scalable*. On top of open source.
How we use FlexMeasures as a middleware.

- **Energy Flexibility Services**
  - GripOnGas: Track avoidable gas consumption
  - E-Mission: Reduce CO2 footprint of processes
  - V2G@Home: EV charging living lab
  - BVP: Balance portfolios

- **Platform Middleware**
  - FlexMeasures: ML models, API, security, plugin support, multi-tenancy, plotting, developer docs...

- **Data integrations**
  - Metering Companies
  - Weather Services
  - Markets
FlexMeasures in the LFE context

New target group:

ESCos

Possible integrations:

- OpenLEADR
- ShapeShifter
- OpenEEMeter
Resources

- https://github.com/SeitaBV/flexmeasures/
- https://flexmeasures.readthedocs.io
- https://flexmeasures.io
- https://seita.nl/core-technology/flexmeasures/
- https://seita.nl/services/
## 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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TAC Business (50 Minutes)
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Outreach updates (10 Minutes)

Closing and next meeting (5 Minutes)
Outreach Updates

- LF Energy Webinar Series
- TFiR videos
- Recent press articles
- Upcoming events
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Closing and next meeting (5 Minutes)
Next TAC Meeting

The next meeting of the LF Energy TAC is scheduled for 23 November 2021 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/Governing Board updates
- SEAPATH annual review
- OpenLEADR annual review
Thank you!