Powsybl general overview

PowsyBl, for Power System Blocks, is an open source library written in Java, that:

› Makes it easy to write complex software for power systems’ calculation.
› Makes it easy to extend and customize its features through its modular approach.

PowsyBl is licensed under *Mozilla Public License 2.0* and hosted on [Github](https://github.com).

The open source community involves *50 people*!
Power system blocks

- **Grid modeling**: Powysyl provides a complete grid components modeling, which is fully editable and extendable.
- **Grid simulation**: Run power flow simulations such as load flows, security analysis with or without remedial actions, sensitivity analysis...
- **Grid exchange formats**: Powysyl supports imports and exports in several standard formats such as CIM-COMPS, UCTE-DEF...
- **Advanced features**: Powysyl also provides a python binding, IRC support, time-series, scalable data management...
- **User stories**: Powysyl aims to be used in various power system tools, for TSOs, RTOs or academics.
- **Contribute**: Powysyl is open source and part of the Linux Foundation. Help us to build the next generation power system tool
What can we do with Powsybl?

→ *Use just a few blocks*
What can we do with Powsybl?

→ Forecast a secure operation of the grid
What can we do with Powsybl?

→ Compute the coordinated cross-border power exchange capacity
What can we do with Powsybl?

→ Assess the costs/benefits of investments for grid planning