

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](#).

The open source community involves [50 people](#) !

Power system blocks



Grid modeling

Powsybl provides a complete grid components modeling, which is fully editable and extendable.

[Learn more](#)



Grid simulation

Run power flow simulations such as load flows, security analysis with or without remedial actions, sensitivity analysis...

[Learn more](#)



Grid exchange formats

Powsybl supports imports and exports in several standard formats such as CIM-CGMES, UCTE-DEF...

[Learn more](#)



Advanced features

Powsybl also provides a python binding, HPC support, time-series, scalable data management...

[Learn more](#)



User stories

Powsybl aims to be used in various power system tools, for TSOs, RSCs or academics.

[Learn more](#)



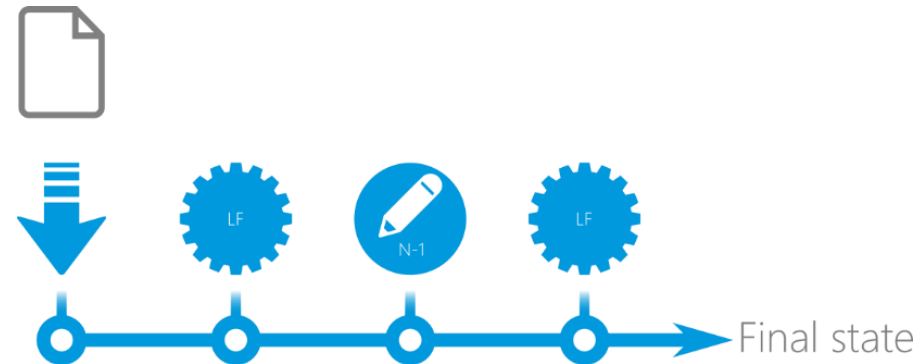
Contribute

Powsybl is open source and part of the Linux Foundation Energy. Help us to build the next generation power system tool!

[What's next](#)

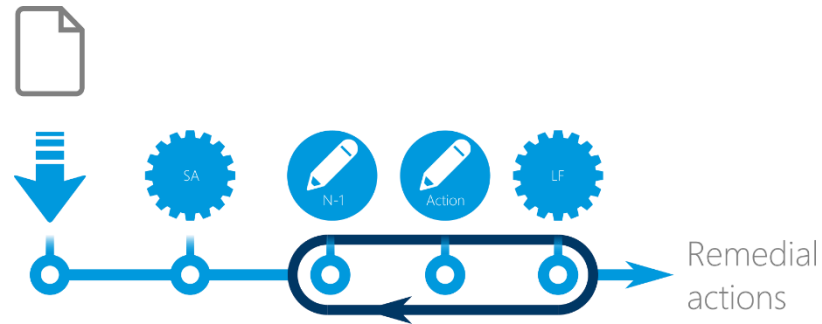
What can we do with Powsybl ?

→ *Use just a few blocks*



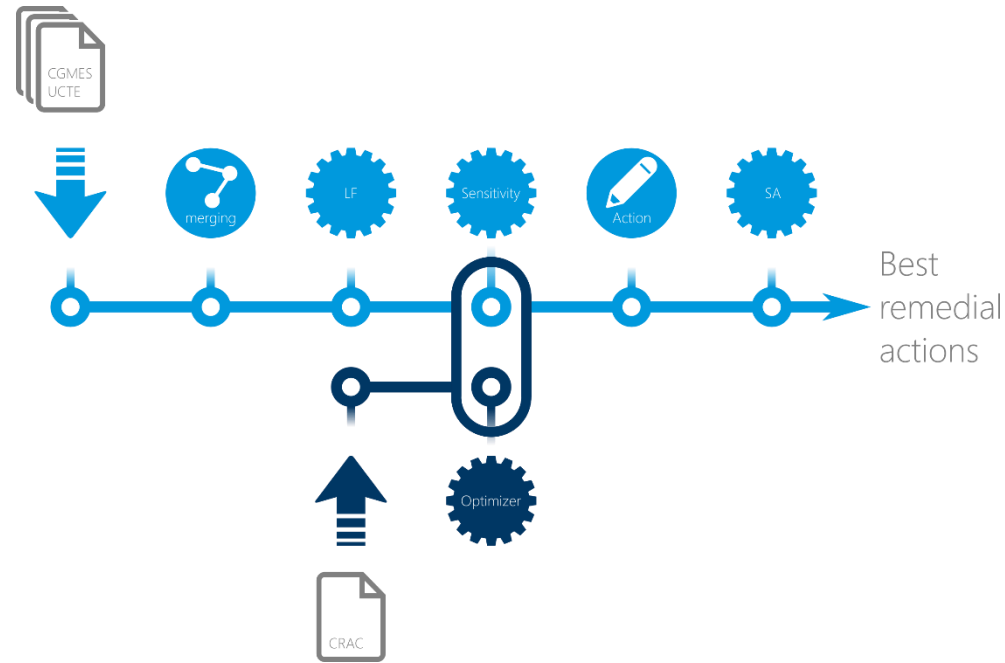
What can we do with Powsybl ?

→ *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*

