FlexMeasures Technical Steering Committee

July 14th 2022



Agenda

- Welcome & Short introduction to FlexMeasures
- Demo selected ongoing roadmap items
- Simulations?
- Q&A



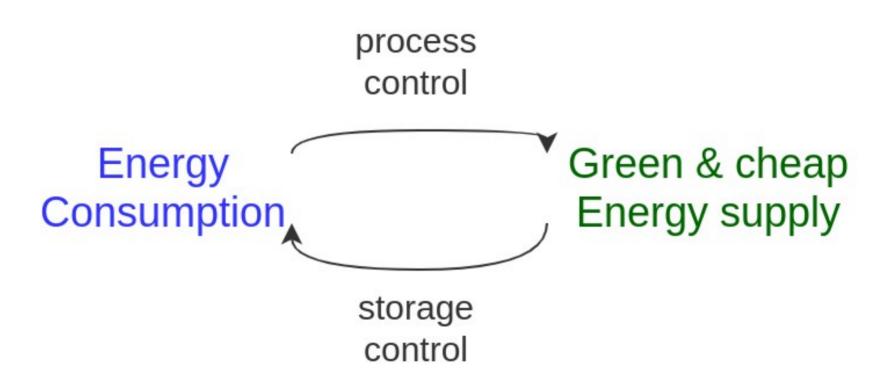
FlexMeasures

FlexMeasures is the intelligent & developerfriendly EMS to support real-time energy flexibility apps, rapidly and scalable.

Go green in daily operations, stay in control.



Big picture





FlexMeasures - simple



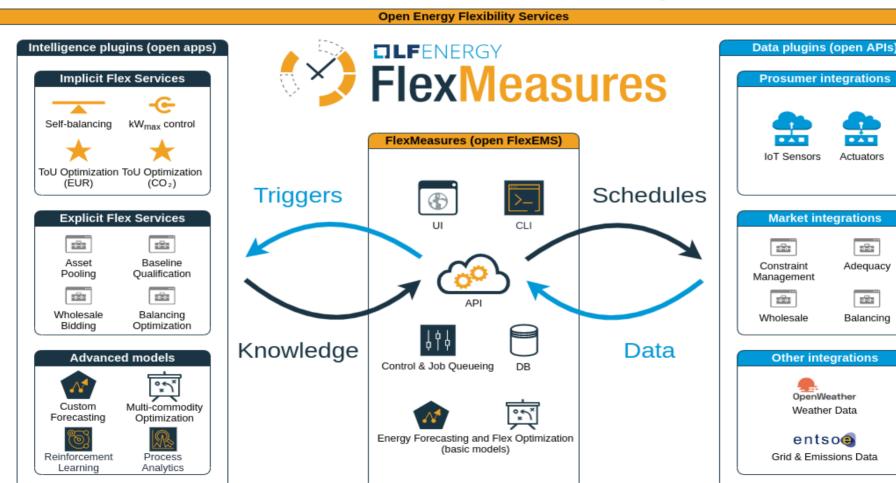


Developer support

- I need help with integrating real-time data and continuously computing new data
- It's hard to correctly model data with different sources, resolutions, horizons and even uncertainties
- I want to build new features quickly, not spend days solving basic problems



FlexMeasures - integration



Use case: SteerOnCO₂ at Rijnland Water Board

We help water board Rijnland to only run their centrifuges for sludge dehydration when the CO₂ footprint in the grid is low.



Use case: SteerOnPrice & SteerOnSolar at V2G@Home

We optimize (dis)charging of Nissan Leaf cars with Wallbox chargers to save costs and use solar power, with zero user interaction needed.



Roadmap (1/4): Docker compose

docker-compose build docker-compose up

```
docker ps
CONTAINER ID
               IMAGE
                                                                                                                      PORTS
                                      COMMAND
                                                                CREATED
                                                                                  STATUS
                                                                                                                                                NAMES
bfc0eed4850d
                                      "docker-entrypoint.s.."
                                                                9 seconds ago
                                                                                                                      5432/tcp
                                                                                                                                                flexmeasures-dev-db-1
               postgres
                                                                                  Up 7 seconds
e99f6cd2b4c3
               flexmeasures_server
                                      "bash -c 'flexmeasur..."
                                                                50 minutes ago
                                                                                  Up 6 seconds (health: starting)
                                                                                                                      0.0.0.0:5000->5000/tcp
                                                                                                                                                flexmeasures-server-1
e9e879189625
               flexmeasures_worker
                                      "flexmeasures jobs r..."
                                                                                  Up 5 seconds
                                                                                                                      5000/tcp
                                                                                                                                                flexmeasures-worker-1
                                                                50 minutes ago
1d1e8f169231
                                      "docker-entrypoint.s..."
                                                                                                                      6379/tcp
                                                                                                                                                flexmeasures-queue-db-1
               redis
                                                                9 days ago
                                                                                  Up 7 seconds
c9985de27f68
                                      "docker-entrypoint.s..."
                                                                                                                      5432/tcp
               postgres
                                                                9 days ago
                                                                                  Up 7 seconds
                                                                                                                                                flexmeasures-test-db-1
```



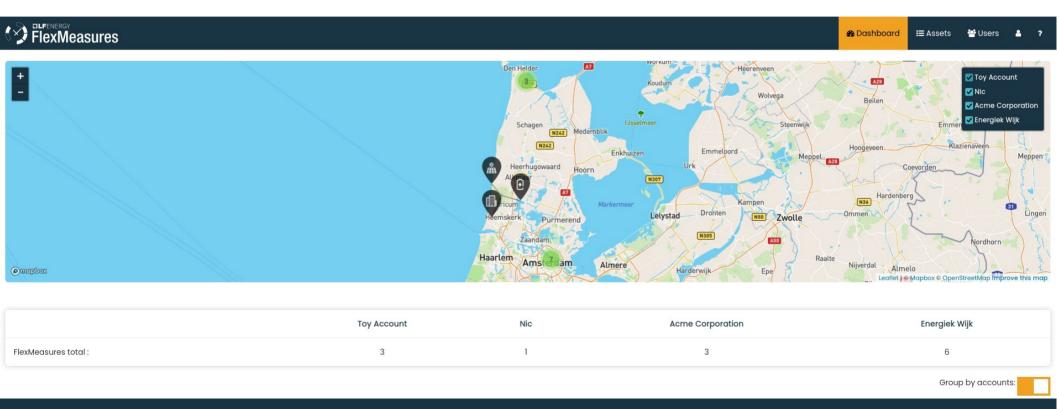
Tutorial



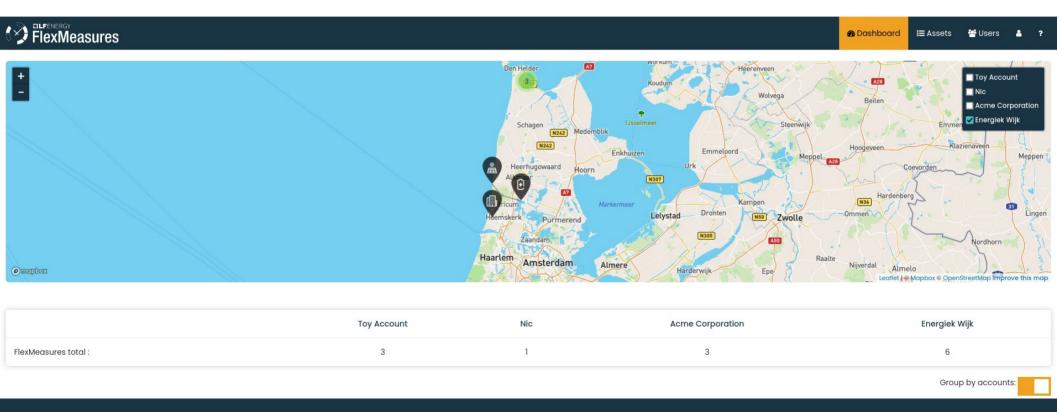
Current roadmap (2/4): New asset page



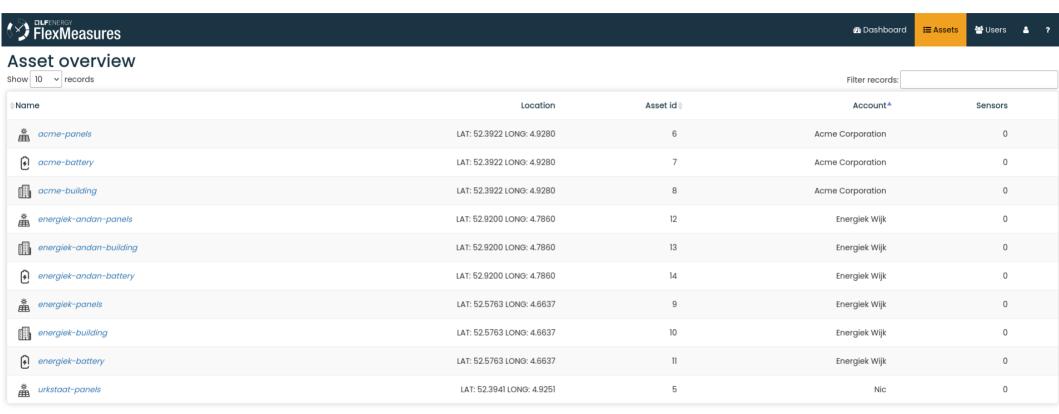
Current roadmap (3/4): Account grouping



Current roadmap (3/4): Account grouping



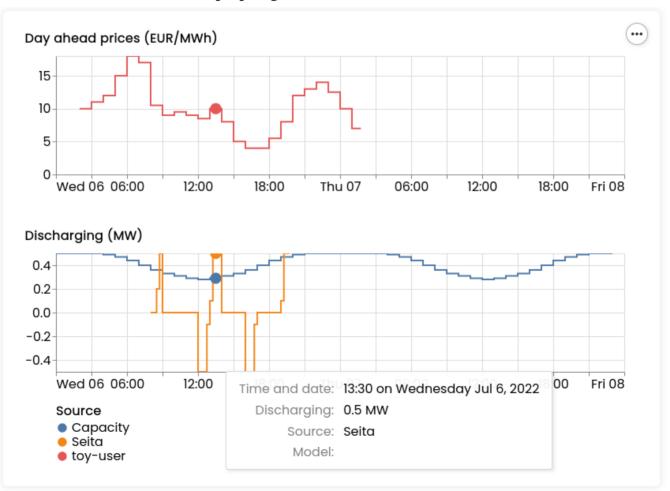
Current roadmap (3/4): Account grouping



Previous

Showing 1 to 10 out of 13 records

Roadmap (4/4): Enhanced scheduling use case: Include solar supply and network constraint



Q&A

- What are you working on?
- What is unclear?
- Features of simulations E.g. determine business case for batteries. What is needed?



Resources – do get in touch!

- https://github.com/FlexMeasures/flexmeasures/
- https://www.flexmeasures.io
- https://lists.lfenergy.org/g/flexmeasures
- https://twitter.com/flexmeasures
- LF Energy Slack: #flexmeasures

