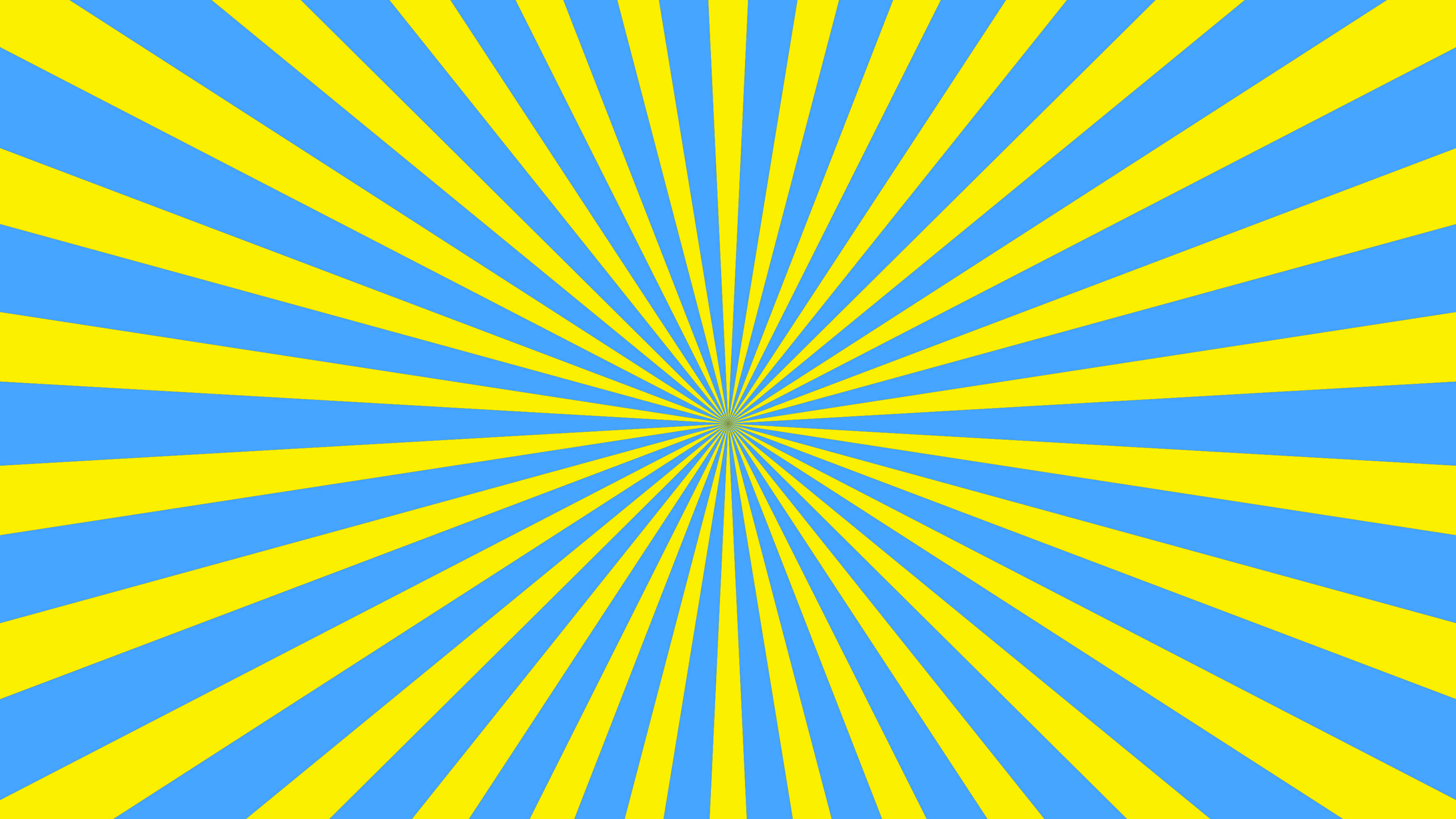
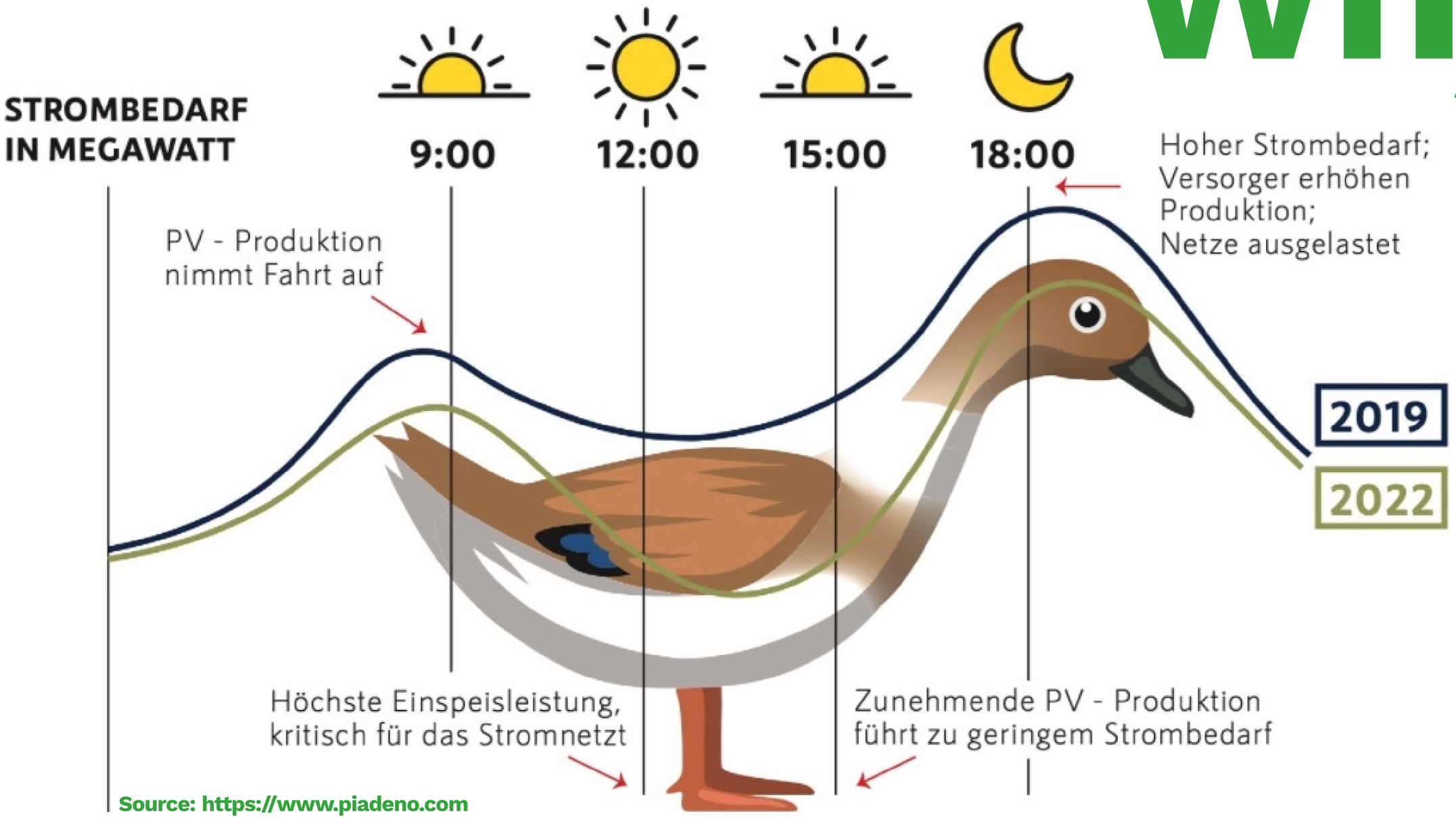


Rise and shine with BaSoSmart

Why?



Source: https://www.piadeno.com

What?

INGE DATTLER

Biographic data

- 72 years old
- Ex elementary school teacher (70%)
- Divorced
- Lives in Endingen am Kaiserstuhl
- Rents a 93 sqm apartment, built 1927
- Southwest-facing balcony with 550 Wp balcony solar panel
- Income: 2300 EUR net
- Takes care of her 2 grandchildren twice a week - they ofen stay overnight on the weekends

Hobbies

- Cooking
- Visiting concerts
- Travelling
- Hosting guests

“I enjoy my home, the sun on the balcony – and good conversations with friends over a glass of wine.”

Digital Literacy

- Android smartphone user (Samsung) with apps like DB Navigator, Payback, Duolingo, Sudoku, nebenan.de, etc.
- Desktop PC with Windows 11 (Firefox, Thunderbird, MS Office, ...)
- Makes online banking with 2FA
- Knows how to transfer an “E-Rezept” to an online pharmacy
- Uses messengers and Facebook
- No use of smart household devices
- Smartphone not always in sight

Main electrical consumers

- Fridge-freezer combi
- Stove & oven
- Washing machine & tumbler
- Smart TV with sound bar
- 2 Dehumidifiers
- Pedelec battery (intense use)
- Iron
- Blow dryer

Sustainability

- Tries to avoid food waste
- Shops at the weekly market
- Interested in reducing and optimizing electricity consumption
- Open to energy advice – simple and jargon-free

How?

We integrate energy consumption monitoring and sun prediction in order to optimize automated storage smart and user friendly.

Strom gedacht API

Solar Forecast API

Battery status

Own production

Current consumption

ALGORITHM

Battery charging or feeding electricity into the grid

Nudging the user to change his behaviour, e.g. starting dishwasher, ...

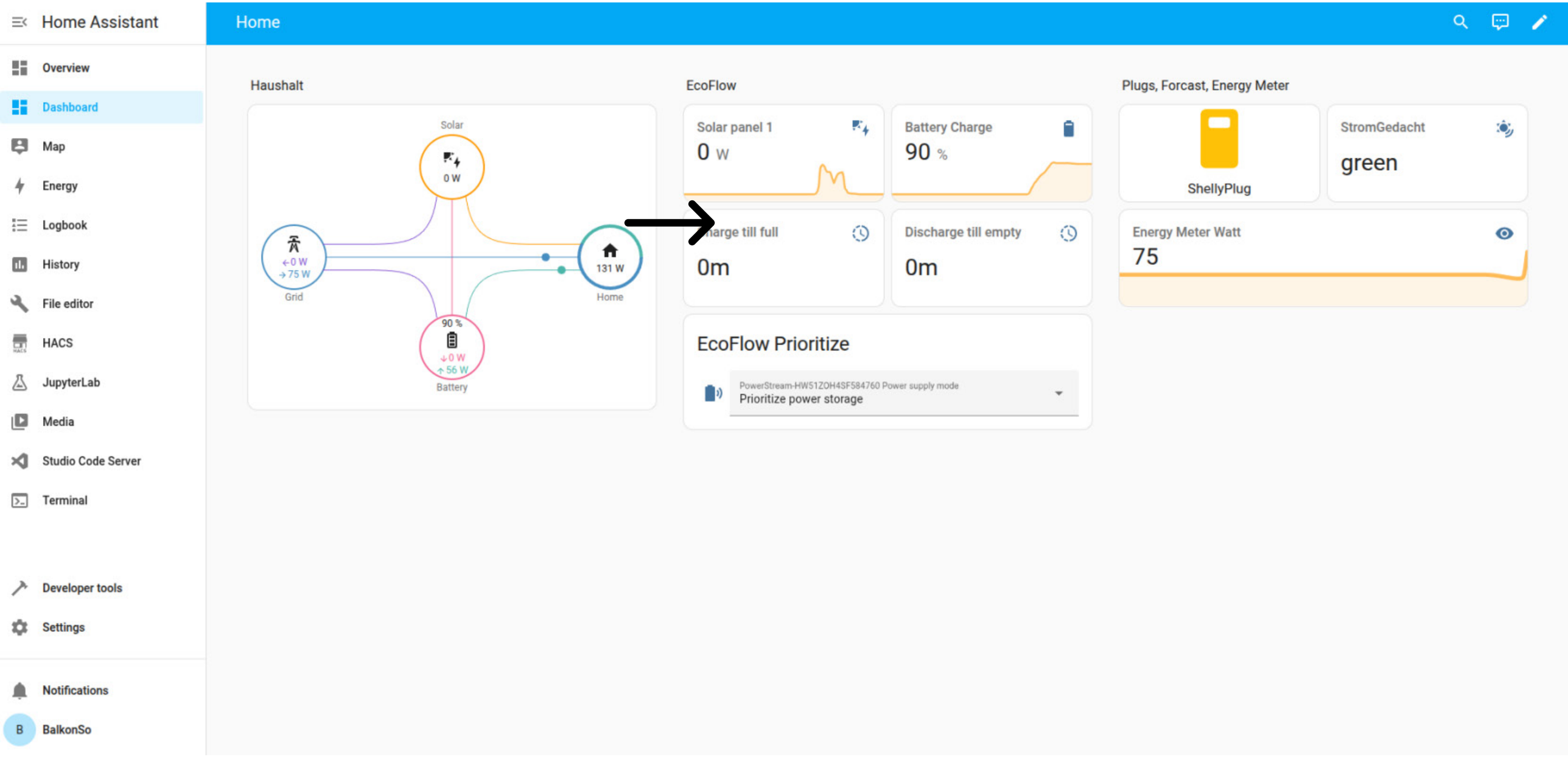
Overview
Dashboard
Map
Energy
Logbook
History
File editor
HACS
JupyterLab
Media
Studio Code Server
Terminal
Developer tools
Settings
Notifications
BalkonSo

Blueprint

Blueprint to use
Decide on where the energy should go

With this blueprint you can decide whether excess energy should go to the grid or to the battery

PV peak power (in Watts) Enter the total peak power of your PV system	400
ZIP code Enter your local zip code	79110
Latitude of your geo position (eg Freiburg iBr=47.9873)	47.9873
Longitude of your geo position (eg Freiburg iBr=7.7536)	7.7536
Angle the PV system is placed at (0=vertical, 90=horizontal)	35
Alignment of the PV system (N/E/S/W; 0=south, 90=west)	0


Home Assistant
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Settings
Notifications
BalkonSo
Home
Haushalt
Solar
0 W
0 W
75 W
Grid
131 W
Home
90 %
0 W
56 W
Battery
EcoFlow
Solar panel 1
0 W
Battery Charge
90 %
harge till full
0m
Discharge till empty
0m
EcoFlow Prioritize
PowerStream-HW51ZOH4SF584760 Power supply mode
Prioritize power storage
Plugs, Forcast, Energy Meter
ShellyPlug
StromGedacht
green
Energy Meter Watt
75

Success criteria

- optimizing consumption and feed-in based on demand ✓
- reduce CO_2 impact by using green electricity efficiently ✓
- maximize financial benefits for prosumers ✓
- be simple, user-friendly, low-cost, open-source, and scalable. ✓

Who?

Adrian
Ilka
Jana
Justin
Mathias
Yannick