

SYCRITU & SOLARLAB



Collateral damage of capitalism:



Most of this could and can be reused, at least partly!



SYCRITU and SOLARLAB

- REUSE
RECYCLE
- USE SOLAR ENERGY
for a defined part of our house



SYCRITU



Tuni, Sylvie, Cristina

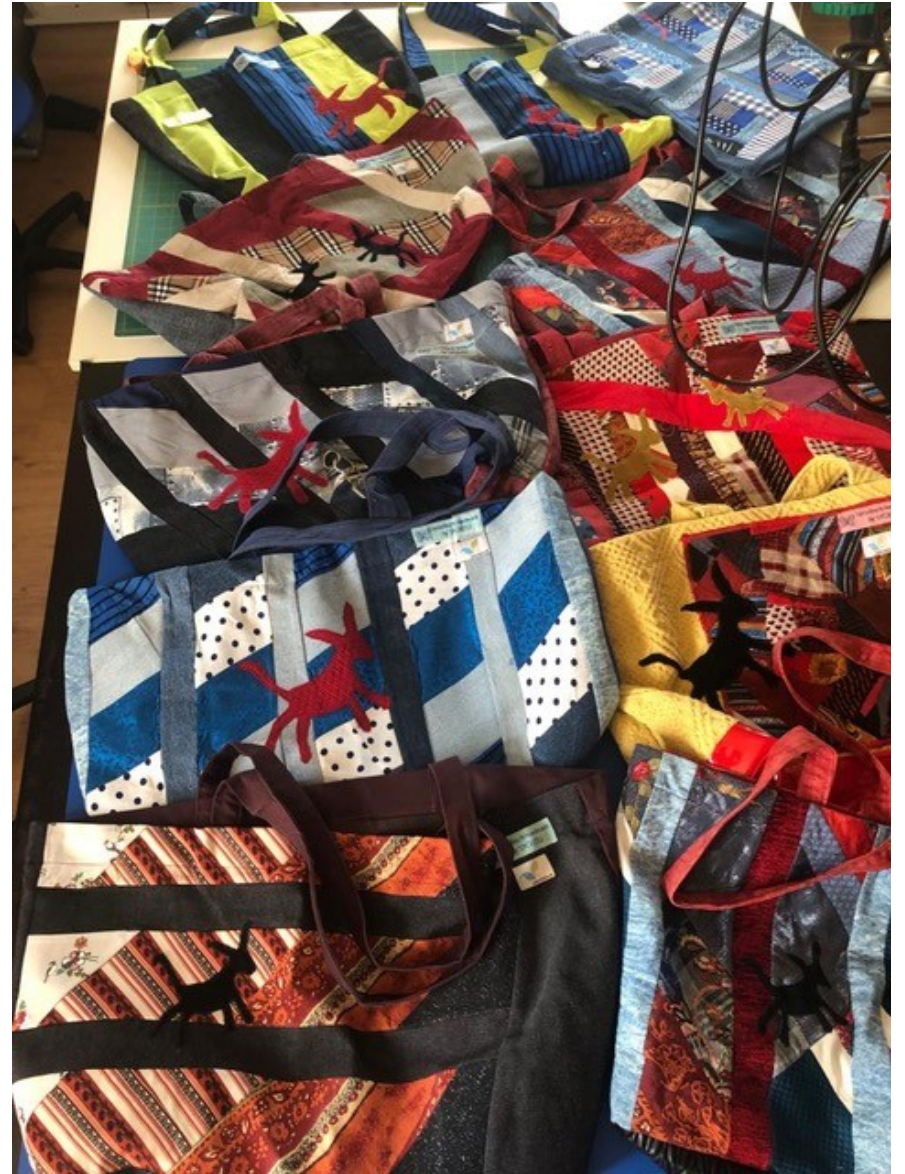






All used cloth (outside and filling)
is “waste”

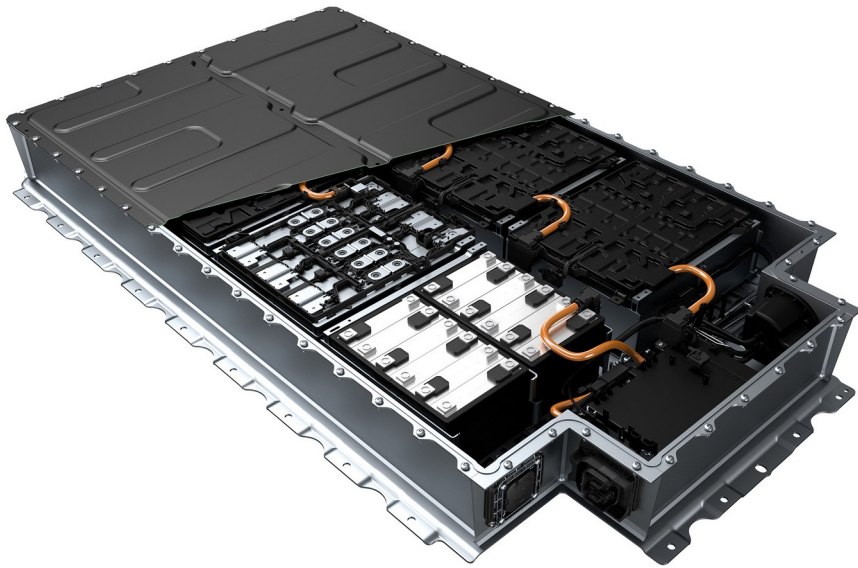
Products are sold and gained money is
invested into green NGOs





SOLARLAB

Basic ingredients:



Used “defectuous” electric car battery
48V, 60Ah, 22kWh (when new)



Used solar panels



Purpose:

“Demo project”

- Show that even under difficult conditions solar energy can be used
- Provide energy for a clearly defined part of our household (island system)
- Use material that otherwise would be waste
- Documentation to encourage others to work on similar projects (Open hardware, open software)

<https://github.com/jean-claudeF/SolarPower>



Special problem:
much shade due to trees



So:

Classical series connection is
not advisable!

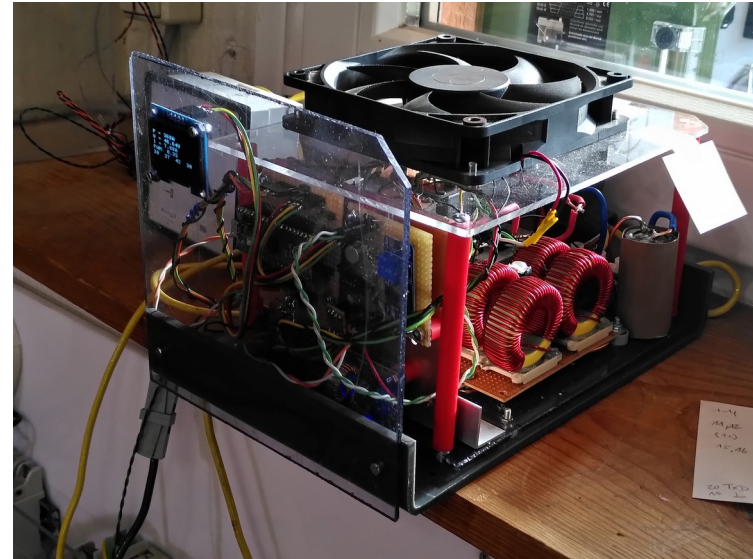
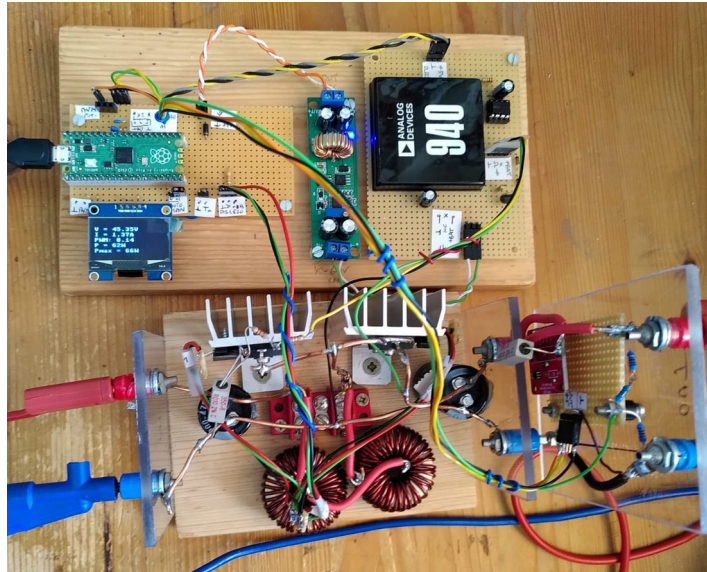
Panels must be connected in
parallel, not in series

ca. 30V from panels must be
converted to ca. 48V for battery

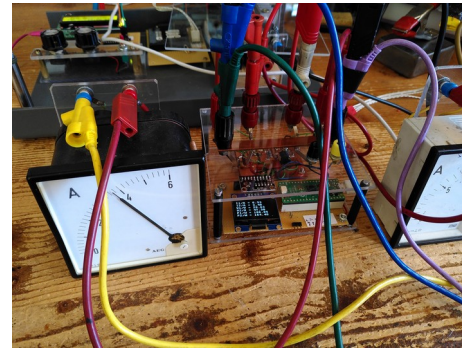
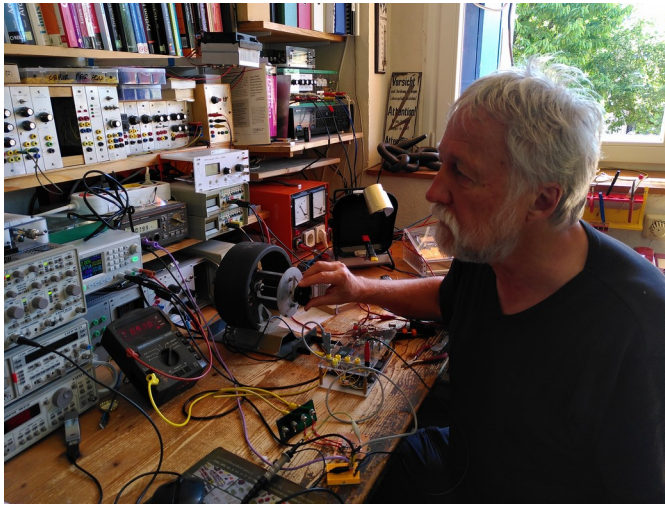
For this ready made systems
are rare / expensive
→ self made converter



The converter solar panel voltage to battery voltage
from test circuit to (more or less) final build

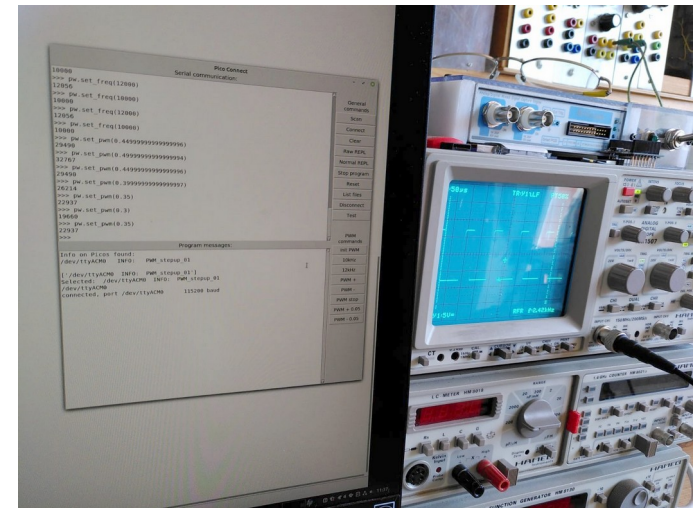
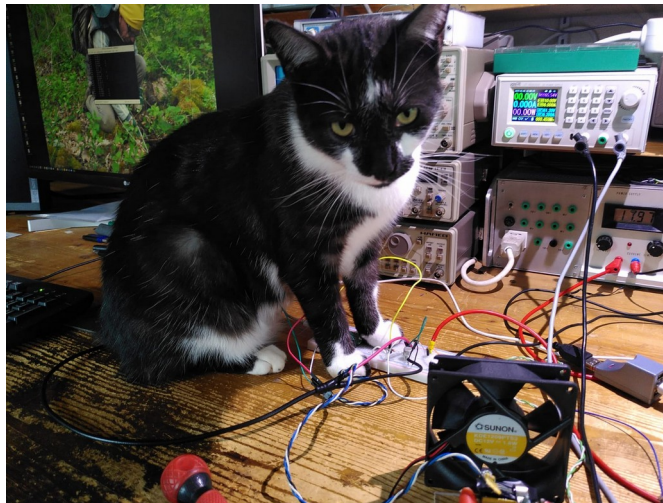


What is needed to do this?



Measuring devices ...

Lab equipment
including cat
power :-)

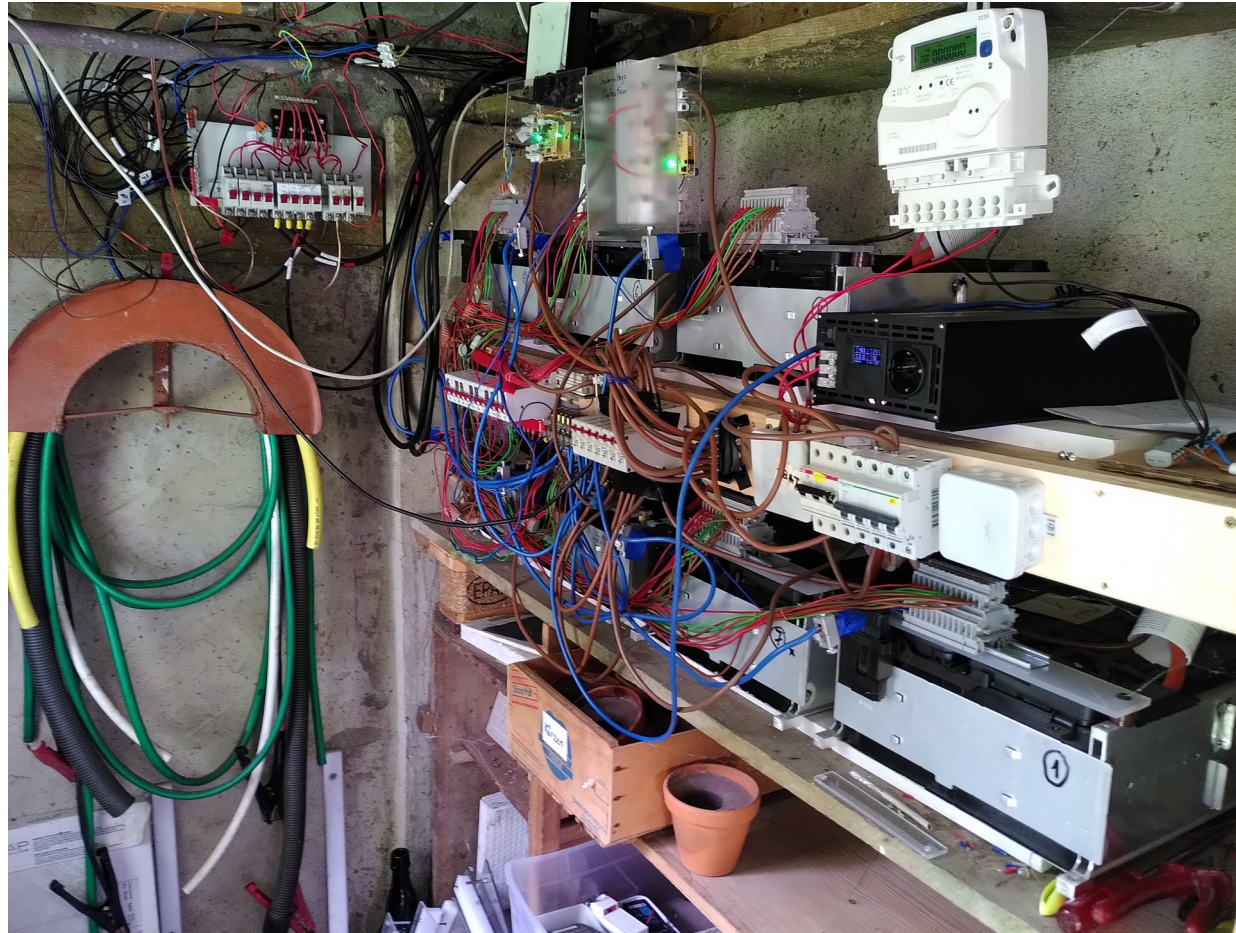


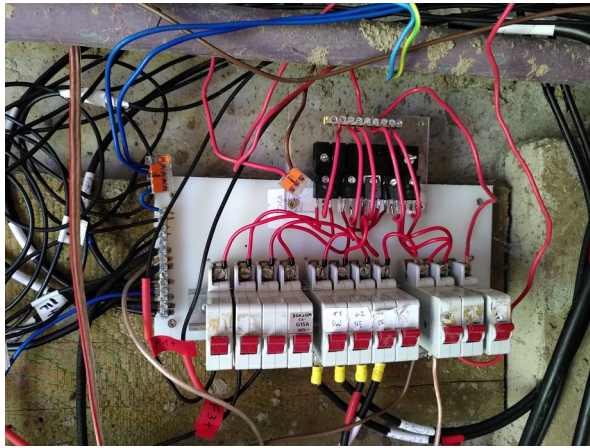


... and a good stock of collected material



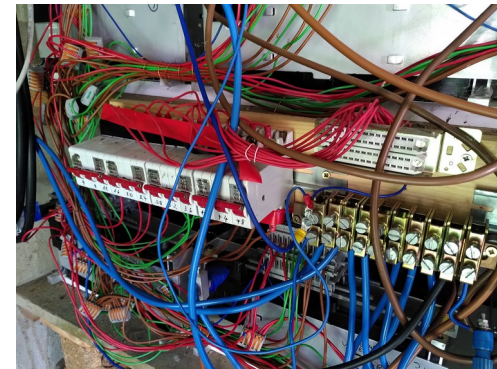
The battery room



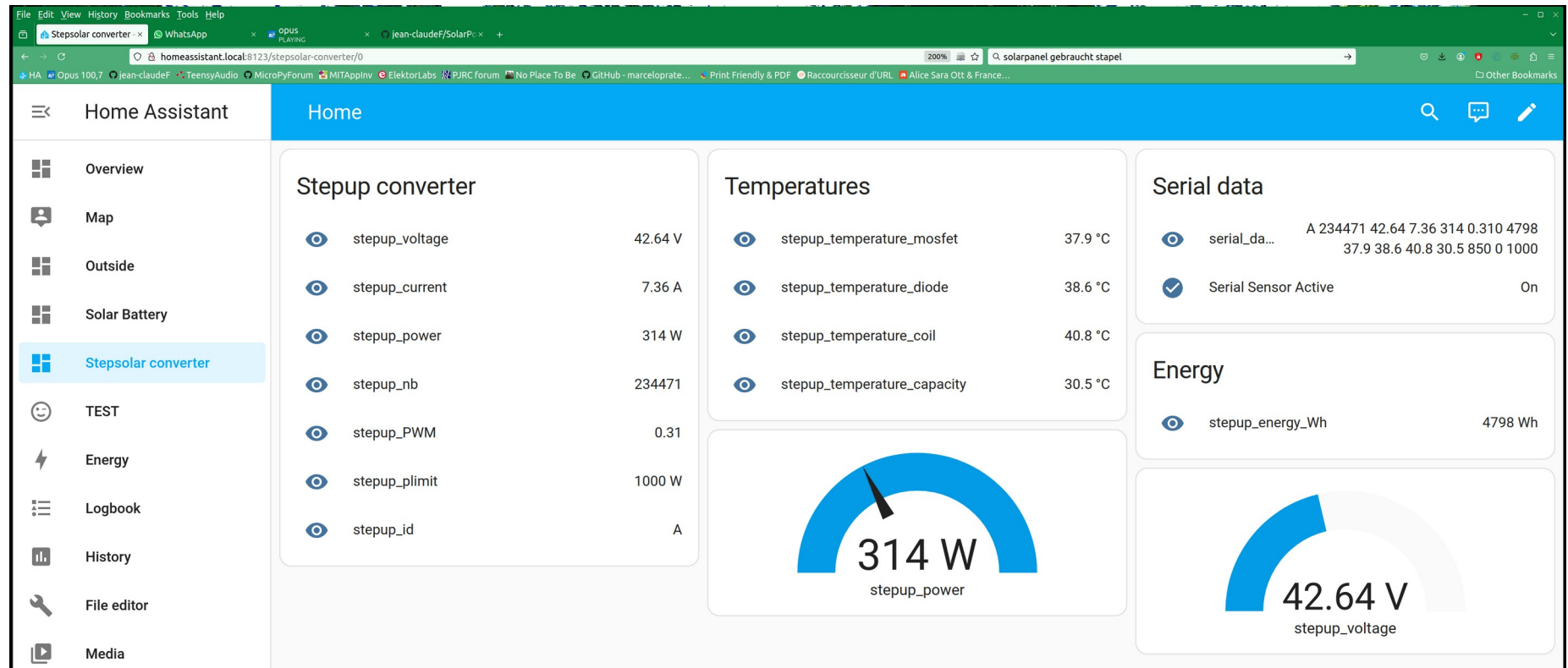


The battery room, some details

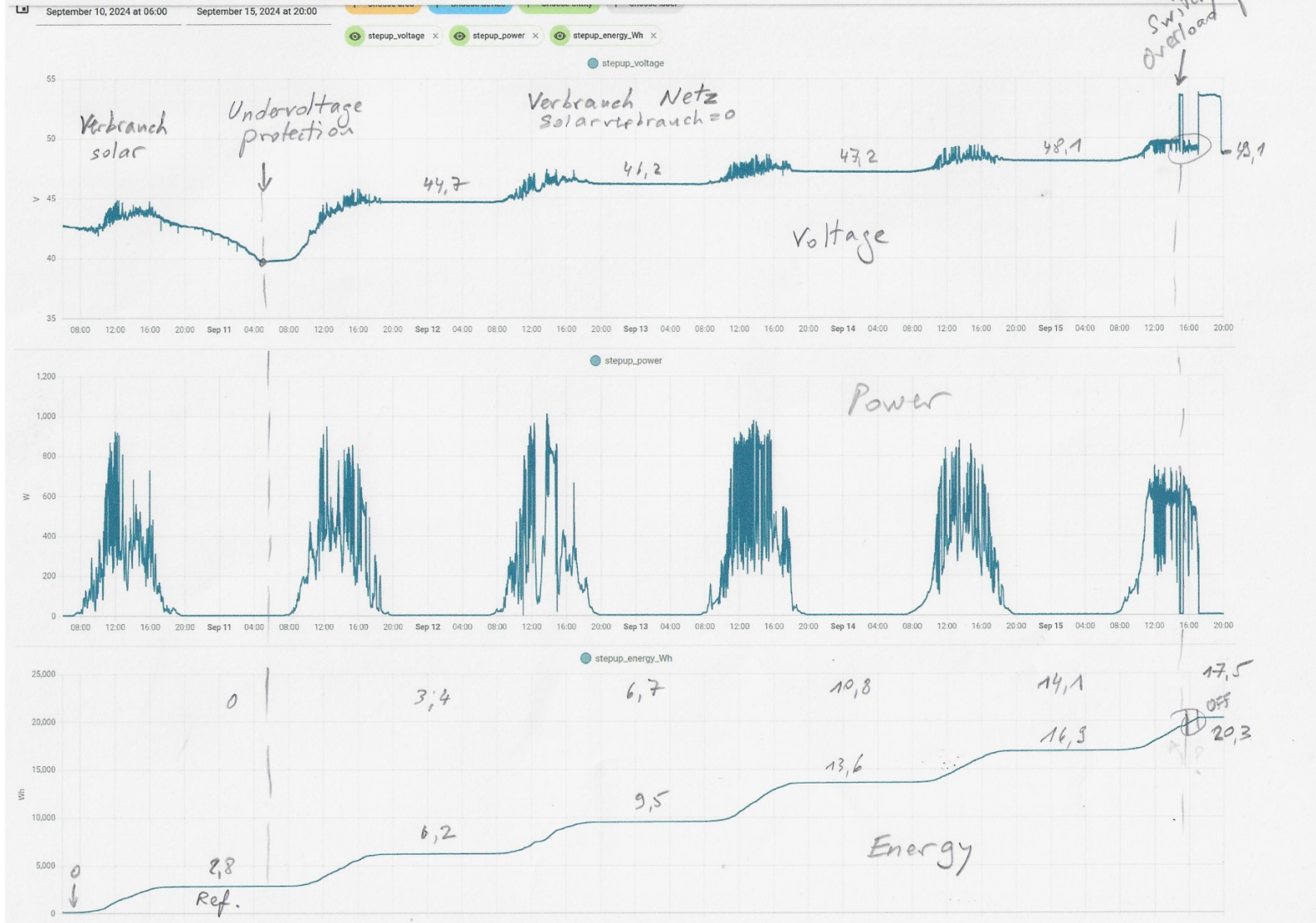
Recycled material:
battery modules, fuse switches, wire, Ampèremeter,
cooling devies, acryl plates, connectors, diodes



The main parameters are monitored with the Home Assistant software, which is modular and Open Source

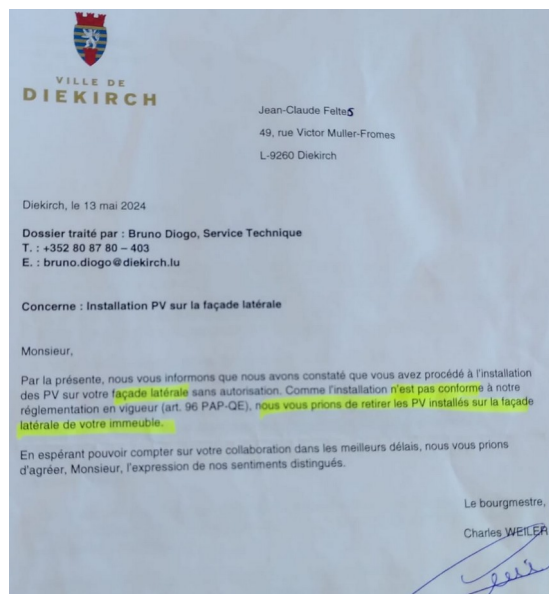


Batterieladen 0..100% ohne Verbraucher



With medium weather the battery is fully charged in 5 days
This would correspond to driving ca. 100-150km with an EV.

Problems ?





And what has this to do with Greenpeace?

Action, not only talking (though this is important too!)





Thank you
for your attention!

Jean-Claude

