

# „Home Energy Management Laboratory“ - HemsLab

- HemsLab is a Python applications
- It simulates an energy system, i.e. a virtual house
- All (virtual) devices have Modbus interfaces
- The home automation software openHAB is used for controlling the system
- A prototype is available:  
<https://git-kik.hs-ansbach.de/MathiasMoog/hemslab>
- Thesis topics, extend the software:
  - Wall Box for a PEV
  - Battery for storing electrical energy
  - Heat pump for heating the building

