

EnergyScope TD :

a novel multi-energy tool for strategic energy planning

Gauthier LIMPENS (UCLouvain)



InnoEnergy

Knowledge Innovation Community

Collaboration between:



(Thx KIC ☺)

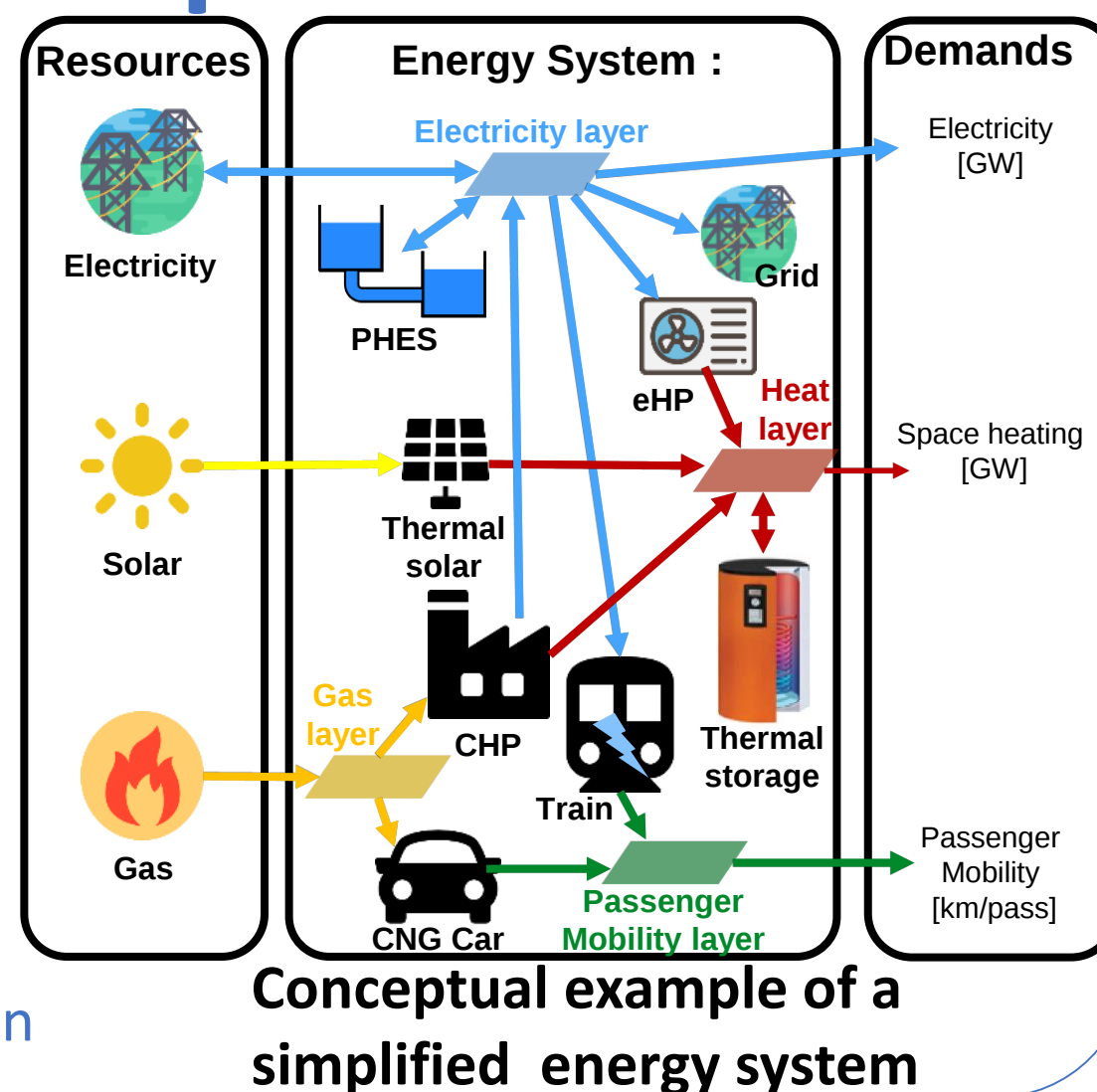
« In the energy transition, where is the most efficient invested € ? »

« Energy models help to understand system dynamics and plan future energy strategies »

« It evaluates when a novel technology becomes market competitive »

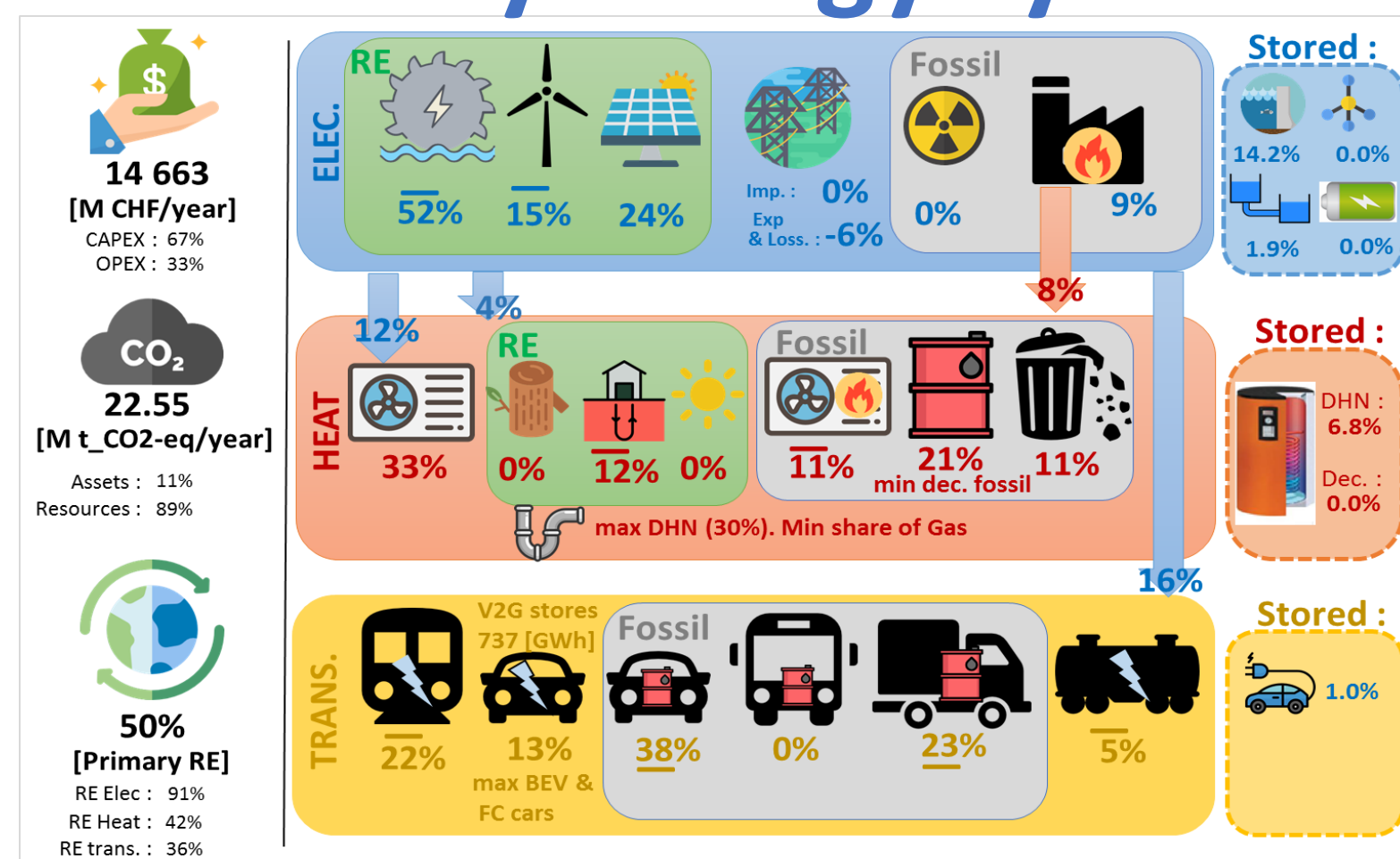
EnergyScope tool

- ☐ **Multi-energy**
(heat, electricity, transport ...)
- ☐ **Optimization**
Design and operation
- ☐ **Open source**
Ready to run & documented
- ☐ **Uncertainty analysis**
suitable for robust optimization



Optimize and analyze your country energy system

- ☐ **Define your scenario:**
We optimize your system (des. & op.)
- ☐ **Evaluate the impact of your policies:**
Insulation, RE, efficiency, EVs ...
- ☐ **When is your novel technology market competitive?**



Major results & energy vectors synergies

Ex. 50% RE Switzerland:

- ☐ **Energy efficiency:**
18% of energy savings
- ☐ **Electrification as a key**
Elec. sector increased by 32%
91% of RE elec
- ☐ **Economically competitive**
3% more expensive, but 14% of additional investment in the country

