

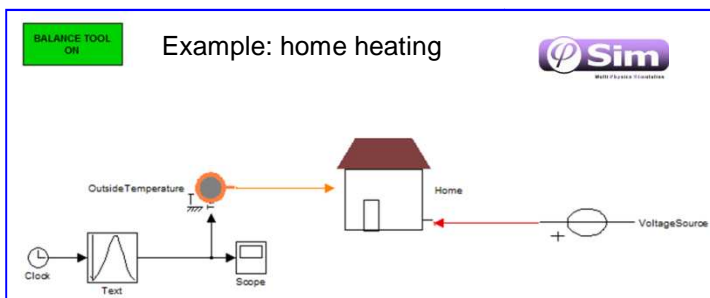
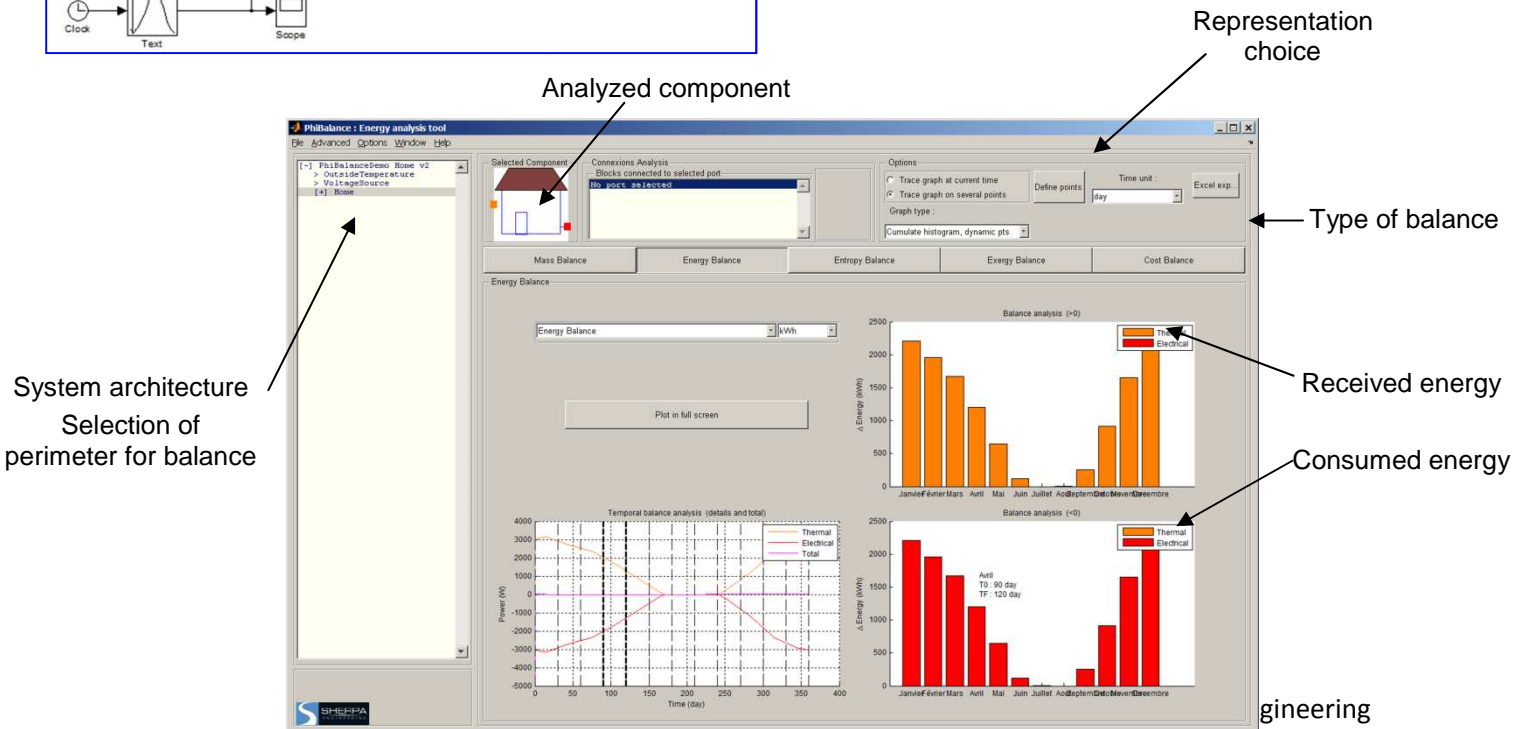
WHAT IS φBALANCE

φBalance is a tool designed to exploit PhiSim concept in order to perform mass / flow mass & energy / power balances automatically.

φBalance identifies physical connections and exchanges of mass & energy between components. Engineers can thus analyze system consumptions and optimize their system.

KEY FEATURES

- Fully integrated into PhiSim environment, used to perform mass/flow mass & energy/power balances automatically. (Future capabilities: Entropy balance, Exergy balance, Cost balance)
- Different system level analysis available: system, sub-system, component, component port
- Different temporal analysis available: instantaneous balance, balance on several points, balance on intervals
- Different representations available: curves, histogram, pie ; Classification by physical domains
- Automatic instrumentation of physical variables of the model
- Figure export
- Excel export

System architecture Selection of perimeter for balance

Analyzed component

Representation choice

Type of balance

Received energy

Consumed energy

gineering