

EnergyPlus

Modelica

simulation manager

HVAC & controls

Thermal zone

Radiative temperature
Sensible heat flow rates to air
Latent heat flow rates to air
Heat gains from people

Thermal zone

Air temperature
Air humidity
Radiant internal gains
Air mass flow rate & temperature

Zone surface

Air-side heat flow rate

Zone surface

Surface temperature

EnergyManagementSystem:Actuator

Actuator

Schedule

Schedule

OutputVariable

OutputVariable

EnergyPlus
time step

EnergyPlus
time step

variable
time step

