

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

Opaque construction

External heat flow rate at both surfaces

Opaque construction

Temperature of both surfaces

Zone surface

Air-side heat flow rate

Zone surface

Temperature of surface

EnergyManagementSystem:Actuator

Actuator

Schedule

Schedule

OutputVariable

OutputVariable

EnergyPlus time step

EnergyPlus time step

variable time step

