

Energy ADE

WG Energy and Systems

Activities, Request of changes for
the Energy ADE v0.6



Working Group Organization

- 5 active participants (Romain Nouvel, Jérôme Kämpf, Silvia Coccolo, Moritz Lauster and Peter Remmen) from 3 organisations. New active participants are very welcome.
- 3rd Eurographics Workshop on Urban Data Modelling and Visualisation, November 23rd, 2015, Delft, the Netherlands
 - Advertising about our Energy ADE to get more participants to our workgroup.

Activities over the last 6 months

- 2 online-conferences (Skype calls) between the members
- Class/Parameter documentation of ADE v0.5
 - To be finished in the next months (not iCloud!), continue in Working Groups 1st Dec @13h30
- Activity on GitHub
 - 2 opened issues
 - 2 Requests of change for ADE v0.6

General feedbacks on ADE v0.5

- Simplifications were necessary to be used by a large user group
 - provide the inputs required for the simulation but not modelling in details the entire energy flow
- More complexity can be added afterwards (if necessary)
- Some attributes within time series are too space consuming (hourly results) → adressed in the „share of experiences“ with CitySim

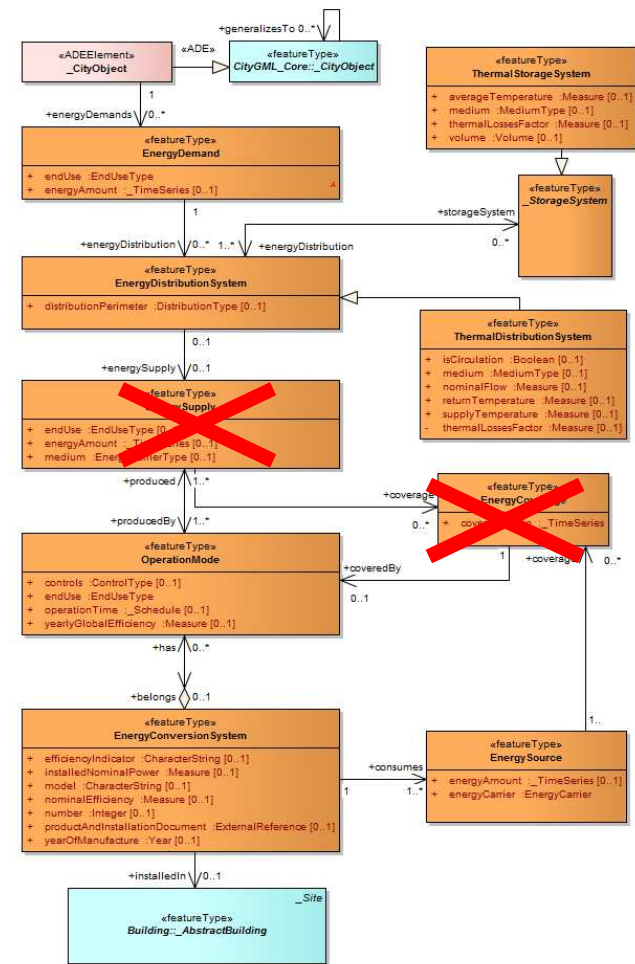
Issue#49

EnergySupply, Energy carrier, Energy source

In ADE v0.5

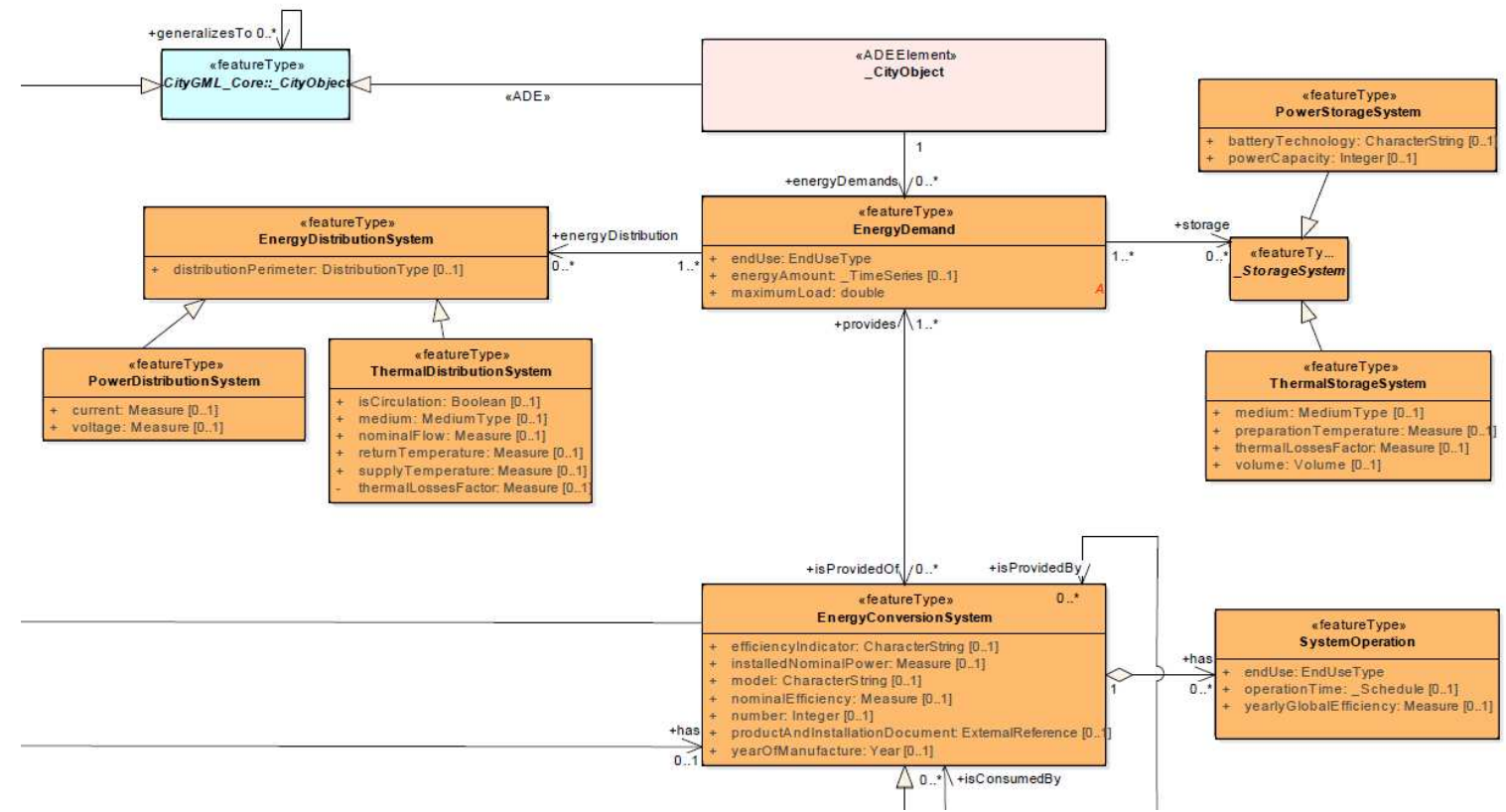
- EnergySupply, which would have been hardly filled up in the information system, is skipped.
- EnergyCoverage, which is redundant, is skipped.

ADE v0.5



Issue#49 EnergySupply, Energy carrier, Energy source

- The Energy transformation process is simplified with a "star structure" around the object EnergyDemand



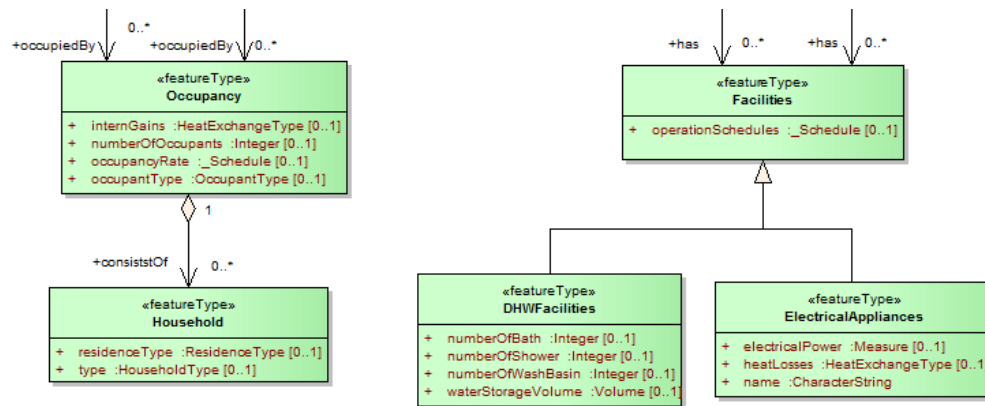
ADE v0.6

NR1 let appear EnergySource
Nouvel, Romain, 11/26/2015

Issue#31

Lighting in Building

Class Occupants

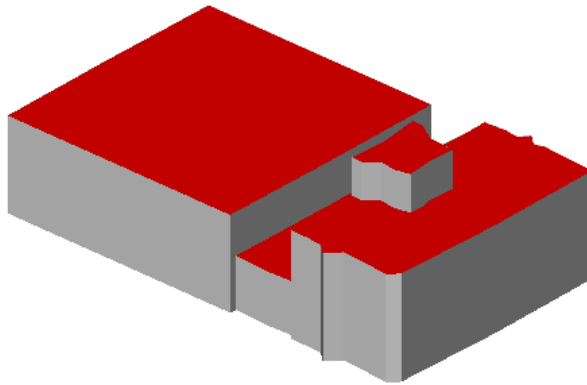


- Up to now, the building model do not integrate specific attributes for lighting:
 - Illuminance Threshold (lux) could be included in UsageZone for instance
 - LightingFacilities/Systems could be specified such as DHWFacilities
- How to link results with LightingFacilities and DHWFacility?

Issue#

Practical examples

FZKViewer bitmap
CitySim → CityGML export



- Provide a basic CityGML file for the LE building @ EPFL
- Prepare sample XML files with version 0.6, providing different:
 - EnergyConversionSystems
 - EnergyDistributionSystems
 - EnergyStorageSystems
 - SystemOperation

ADE v0.6