**KPI RESULTS:**

**KPI for functional requirements:**

* Interoperability between devices
* Loosely coupling functionality
* Average Hourly Event Load Reduction for 130 customers shall be lower than 0.30 kw
* Customer satisfaction using smart thermostat should be higher than 90%
* The rating of user Recommendation should be higher than 9.1
* Energy use and demand should below 22 kwh based on event day.
* Energy saving per room due to lighting condition should be lower than 82
* IOT can reduce spatial management by up to 30 percent
* IOT can decrease cost of building maintainance by up to 30 percent.

**KPI for nonfunctional requirements :**

* Scalability
* Throughput latency (500 mbps)
* Network intrusion
* Network speed rate (should be upper than 240 mbps)
* Prediction sensitivity and accuracy(should be higher than 95%)
* Percentage of incidents that have affected the confidentiality or integrity of information and time detection of incidents.
* Establishing reliable and quick communication among devices in real time (To be specified after SotA analysis a). (To be specified after SotA analysis).
* Fast and reliable system recovery and back-up without human based operation (measurement will be decided after SotA analysis).
* IOT can reduce the operations cost of energy, spatial management and building maintenance by up to 30 percent.

<https://hal.inria.fr/hal-00646061/document>

<http://www.megachips.com/The-Smart-City/smart-building-network-based-on-hd-plc>

<https://aceee.org/files/proceedings/2016/data/papers/2_1172.pdf>