Université Kasdi Merbah Ouargla
Faculté des Nouvelles Technologies de l'Information et de la Communication
Département Informatique

DEGHA Houssem Eddine
Encadreur: Dr. SAID Bachir
.Co-encadreur: Dr. LAALLAM F.Z

Summary :

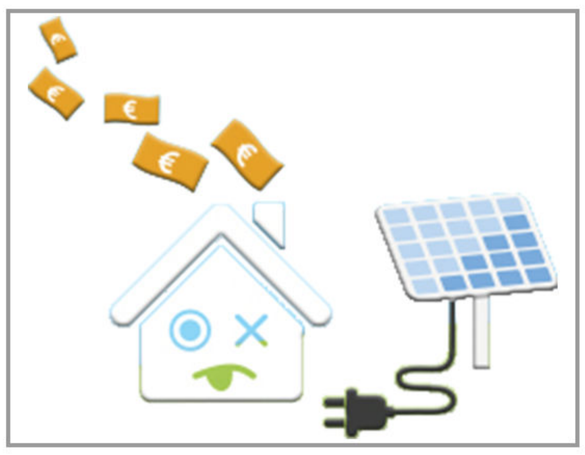
Due the expensive cost of bills and the profusion energy consummation. we provide a solution to solve this problem. The goal of our project is to develop a system which we called Green intelligent system (GIS). It is a collection of devices and softwares that create smart environment, in order to save energy and give comfortable lifestyle, in real time . GIS use the green energy to reduce the consummation by intelligent distribution of energy It can also be connected to an electricity grid. our system is based on ontologies and open source IOT solutions.

key words :

Green Energy , consummation , Java , Smart house ontologies , IOT .

Problematic :

The issues we deal with in our project is related to the high energy consumption with poor management of it, in a house .



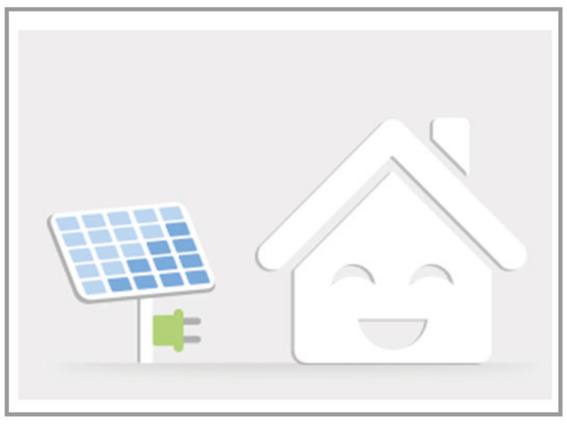
Existing Solution :

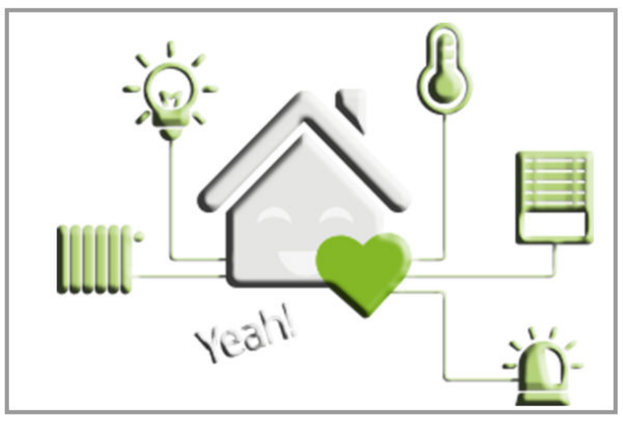
There are many smart home solutions but they are :

- Expensive solution
- Based on hardware solutions without intelligent
- Didn't take the human behaviors and environment in consideration
- Didn't use the green energy

Our solution

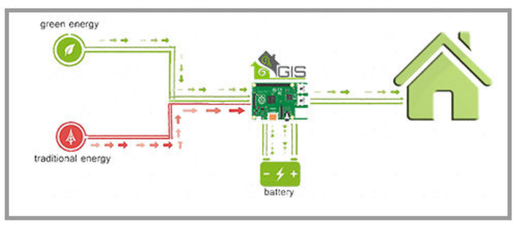
We provide a solution called Green intelligent system (GIS)
It takes human behaviors and environment and it's so cheaper.

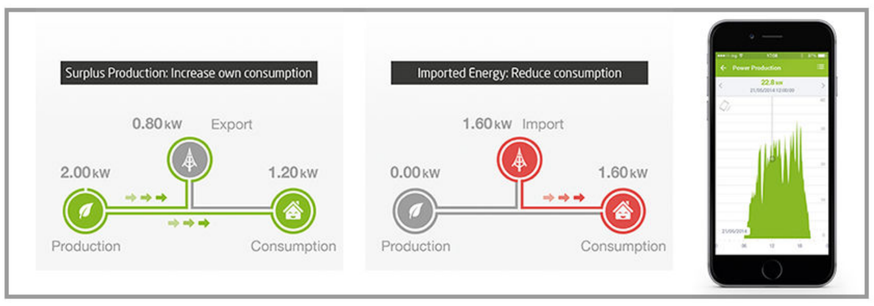




Result :

The result is an intelligent system for the good management of energy in a home. The energy to be managed can be purely renewable or hybrid. Thus, the house can also be connected to a public power grid . GIS provide friendly web application can be run on many deferent devices.



CONCLUSION :

Our work consists of contribute to the management of energy in a home Our contribution is to develop an intelligent system to satisfy the load while saving energy. We take advantage of the technologies of computer science as ontologies and existing open source projects , to achieve our goal.