Title: Urban Node (design)

Introduction:

The objective of this project is to design a new family of urban equipment with new functionalities. In the cities there are now street lamps which only provide light. This concept is changed in this project. Therefore the objective is to create a new urban element that produces energy, and is able to get different types of information and drop it to a network, which can be for example an electric car charge point, have a touch screen, etc. This element should be ergonomic, ecological, useful, easy to maintain, secure, and very attractive.

Project Brief:

The Outcome of this project is to design a new concept of urban equipment that takes into account the following aspects:

- It must generate more energy than it spends.
- It must be a design line and modular. It must be possible to install alone, on a wall or façade, and with or without some elements like wind generator, solar cells, temperature sensors, light, etc.
- It must be designed attending ecological parameters.
- Its structure must satisfy the following requirements: don't have contaminant elements, be durable, be easy to maintain, be secure, and be easy to recycle.
- Research on present and future applications like: car charge, camera dome, weather station, parking sensor, mobile bts, etc.
- The design equip should work together with mechanical and electronic teams.
- The design must be innovative and attractive.

Company

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Project team:

Number of students:

Students speciality: Business Management
Mechanical engineering
Industrial Design