Orona Ideo – CASE STUDY

Orona Ideo is a project under construction which aims to develop an Innovation Ecosystem for ORONA, which stands out as a space combining different synergistic activities – company, technology centre and university – with a laboratory where leading edge technologies for sustainability and building energy management are applied.

Orona Ideo is comprised of four buildings, each with its own character, which, from conceptual design, have taken passive energy usage measures into account by applying climatic design, and which have opted for simultaneous LEED Gold and BREEAM Excellent certification. Thermal energy will be generated locally for all buildings via the Orona Ideo District Heating-Cooling facility, whilst a large photovoltaic cover-façade will be integrated into the Orona Zero building in order to produce energy for onsite consumption, and provide a means of researching elevation system related new electricity storage systems.

The project will also contain a showroom displaying real time building energy management monitoring, and host visits to renewable energy production installations. In short, Orona Ideo will be a Net Zero Energy Campus innovator.

Total built surface area above ground: 23,000 m²
Corporate use: 4,000 m²
Orona Elevator Innovation Centre: 4,800 m²
Technology centre and laboratories: 3,000 m²
Shared use: 6,000 m²
Teaching use: 5,200 m²
Total built surface area below ground: 27,000 m²
Orona Ideo budget: 70M€
Team:
Orona, LKS ingeniería, Cenit Solar, Cener, MC2 ingeniería and Garrigues have all been involved in drawing-up and managing the project. The project is signed off by the architects Xabier Barrutieta (Orona), Eneko Goikoetxea (Orona), Javier de la Fuente (LKS) and Santiago Pérez (LKS).