

University of Malta Campus

Malta, Msida

Description: University of Malta Campus (UM) centrally located on the island composed by 14 faculties, 8 institutes, 12 centres, 3 schools and a sports complex

Vision: to provide educational facilities in a safe environment; attaining sustainability at building scale and at urban neighborhood scale; wellbeing for the community on campus; serving as a hub with various facilities including office spaces, accommodation, library, etc.

Unique specificity: it is Malta's only university and students come from all over the island; university is composed of a mixture of buildings constructed from 1960s-to date using different systems and construction methodologies; campus includes refurbished buildings and is a dynamic space with new buildings and faculty buildings; abundance of open space and piazzas

Challenges: neighborhood is publicly funded; high population density puts pressure on infrastructure (communication, waste, water, energy); difficulties in adapting and modifying the older buildings to meet current trends and requirements since buildings are always in use

Solutions: rooftops fitted with solar panels to reduce electrical energy consumption; state of the art VRF systems (Variable Refrigerant Flow) on newer buildings to fine tune the thermal comfort of the buildings

Lessons learned: how to improve transport systems; improvement in the management of green public areas; gaps in the benchmark were addressed with reference to urban areas in similar climatic zones

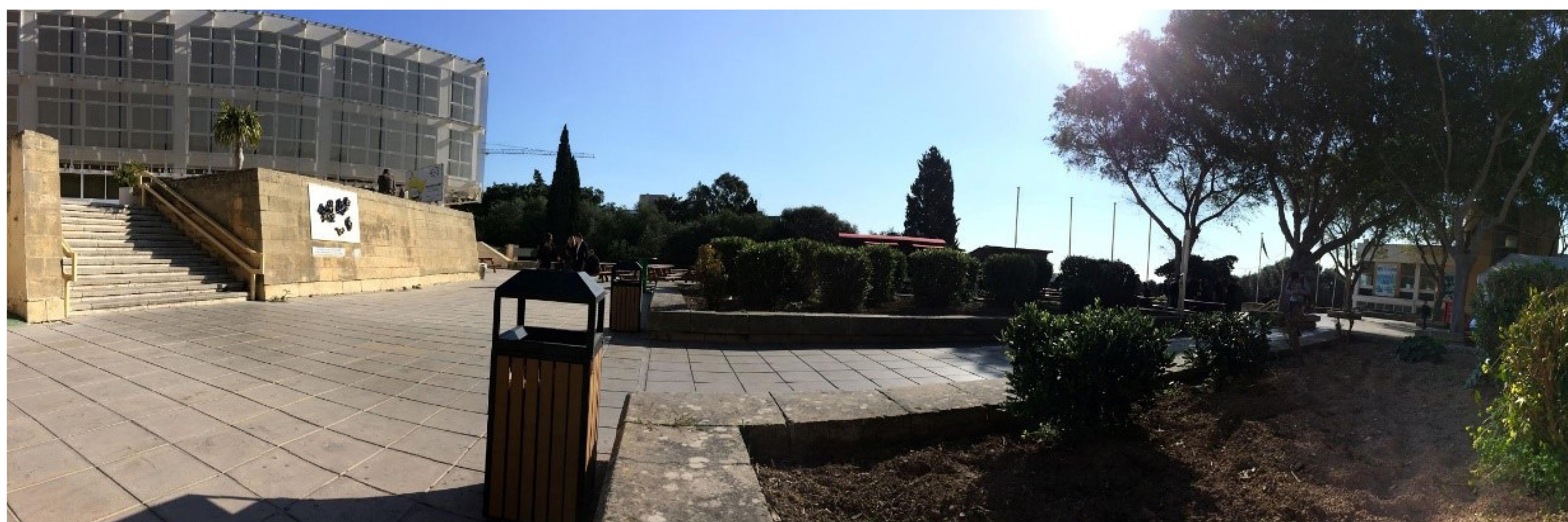
Efforts: installation of solar panels on all roofs led to a shift towards saving in energy and improved energy managing; various buildings on campus are zero energy buildings; public transport was improved and upgraded; reduced demand for parking on campus and reduced traffic congestion; campaigns to promote waste separation; sustainable management of space; new buildings on campus designed with sustainability principles

Target group: students, administration, technical staff, academics

Financing: estimated invested budget of the local community for the neighborhood 1.2 Mio Euro

Success: during the sustainable audit and the use of the Sustainable Neighborhood (SN) tool , knowledge and data about water resources, energy consumption, waste management, transport data, economic data and social data were gathered; tool highlights the challenges the neighborhood is facing;

Future perspective / Recommendations: by conducting the sustainable audit on the UM campus, certain challenges were highlighted by the tool; improving waste management systems and transport across UM; promoting carpooling and use of public transport; better use of water resources, etc; sustainable committee C-SUM was set up in 2018;



Ecological value of land:

13 %

Use stage energy cost for public buildings:

no data

Share of renewable energy on total final thermal energy consumption:

93,1 %

Total GHG Emissions from energy used:

76,5 kg CO₂ eq./m²/year

Consumption of water for residential population:

2,14 m³/occupant/year

Ambient (outdoor) air quality with respect to particulates:

52 days/year

Quality of pedestrian and bicycle network:

2,29 m/100 inhabitants

Community involvement in urban planning activities:

Level 1

State:

Malta

Region: Malta

City: Msida

Size: 27 ha

Inhabitants: 14.000 inhabitants

Project by population: Area in cities between 10.001 and 50.000 inhabitants

Sort of project: Existing retrofitted areas

