

**Smart SpecialiSation
UNiversity Campus**

S3UNICA

Interreg Europe



European Union
European Regional
Development Fund

University of Udine and its Stakeholders

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24-25 June 2021 | Exchange of Experience, Udine on-line

University of Udine: who we are

- Is a young public university founded in 1978
- Is a small university but has a network of expertise covering all areas of research




Scientific Area



Medical Area

**Economic and
Law Area**

**Humanistic and
Teacher training Area**



Students:8,449

Students:6,965

Medical Area

**Economic and
Low Area**

Scientific Area

**Humanistic and
Teacher training Area**

Site	Consumption	
	[KWh]	[%]
Scientific Area	5,747,464	66,30
Medical Area	713,531	8,23
Humanistic and Teacher training Area	1,559,039	17,98
Economic and Law Area	528,259	6,09
Main buildings amount	8,548,293	98,61
Other sites	120,769	1,39
Total amount	8,669,062	



University of Udine: energy efficiency

EPC contract

ENERGY EFFICIENCY

Energy saving: **6%**

Investments: **€ 550,000**

Electric Energy Consumption: **2.1 GWh**

Natural gas consumption: **91,000 m³**

Volumes: **234,000 m³**

Replacement: **Boilers and windows**

Installation: **Thermostatic valves**



ATON project

Thermal: **74.5MWt**

Cogeneration: **10.1 MWt & 10.3 MWe**

Cooling: **26 MWe**

Emergency power station: **7.5 MWe**

ENERGY EFFICIENCY UNIVER-CITY

PV power: **32 kW**

Waste heat recovered: **10.8 MW**

Volumes: **347,000 m³**

Electric energy consumption: **6.5 GWh**

Thermal energy consumption: **5 GWh**

Smart€R project



Electronic device designed for the advanced management of fancoils in buildings where the conditioning systems are centralized and presence of people inside the rooms is not continuous. Heating or cooling service becomes “on demand” and user controlled

- No existing system conversion costs, low investment and installation cost
- Short term monitoring and data logging of machinery and environments
- Advanced diagnostic functions (predictive maintenance of the conditioning system and of the device itself)

“A change of perspective: from a vertical metering solution to an horizontal IoT solution” - Bluenergy Assistance srl – Bluenergy Group SpA Company



Smarti€S project



Smart grids powered by PV which use energy storage systems and chargers for electric vehicles. Project implements advanced solutions:

- to reconstruct buildings/ infrastructures in 3D integrated by GIS/BIM systems
- to collect and track consumption and the data required
- to examine the photovoltaic potential of buildings' roofs



“A holistic approach to energy saving in buildings” - OverIT S.p.A.



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Thank you for your time...
let's start !



Project smedia