



S3UNICA
Interreg Europe



European Union
European Regional
Development Fund

UDINE UNIVERSITY

Energy efficiency contract

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ENGIE Italia: key numbers

3.400

employees

1

million customers

60

offices

More than
2.000
schools

More than
350
municipalities

650
THOUSAND
public lighting points

80
hospitals

10
THOUSAND
efficient buildings

2.600
condominiums

30
Universities,
museums, theatres

2
Smart Cities

200
THOUSAND
customers in
home services

ENGIE Italia: presence and market



Public and private
healthcare



Museums, universities,
cultural institutions and
Sports



Transportation
infrastructure



Industries



Public
Administrations



Small to Medium
Businesses and
Professionals



Families



Condominiums

Udine University– Project Goals

- ✓ Reduction on energy consumption and costs
- ✓ Reduction on CO2 emissions
- ✓ Reduction on operational costs
- ✓ Digitalization
- ✓ Improve the service level
- ✓ Improve plants reliability

Udine University– Project Scope

- ✓ 20 buildings
- ✓ 171.000 m2
- ✓ 8.950 MWh/year

Services to be provided

- ✓ O&M electric systems
- ✓ O&M sanitary water systems
- ✓ Maintenance of fire-fighting, anti-intrusion and lift systems
- ✓ Maintenance of gates and bars
- ✓ Ordinary and extra ordinary maintenance
- ✓ Extra-works

Udine University– Project steps

- 1 Definition of project goals and scope
- 2 Data collecting (energy consumptions, maintenance costs, ...)
- 3 Survey on the plants
- 4 Sharing the project with the customer (Draft contract, energy efficiency works, ,...)
- 5 Project evaluation (from the customer)
- 6 Appointment as a promoter
- 7 Tender phase
- 8 Sign of the contract

Udine University - Investments in energy efficiency

Building	Address	Circulation system	Refrigeration Unit	Transformer	Inverter	FVT	Cogenerator
Palazzo Antonini	Via Petracco, 8	X	X	X	X		
Blanchini	Via MaRgreth, 3	X					
Palazzo Caiselli	Vicolo Florio, 2	X	X		X		
Palazzo Solari	Vicolo Florio, 4	X					
Palazzo Camavitto	Via Zanon, 6		X				
Palazzo Florio	Via Palladio, 8	X					
Scuderie Palazzo Florio	Via Cosattini, 29	X					
Palazzo Santa Lucia	Via Mantica, 3	X			X		
Casa dello studente	Piazzale Simonetti, 1	X			X		
Convento di S. Chiara	Via Santa Chiara, 30				X		
Casa Lenassi	Via IX Agosto, 8	X			X		
Tomadini	Via Tomadini, 30	X				X - 50 kWp	
Grandi Aule Tomadini	Via Tomadini, 30				X		
Palazzo Garzolini-Toppo Wassermann	Via Gemona, 92	X			X		X
Padiglione Tullio	Via Colugna, 44	X			X		
Via Larga	Via Larga, 42				X		
Palazzo Falconieri	Via Mazzini, 3	X					
Residence Ginestra	Via Treppo, 18				X		
Ex Basket	Via Cotonificio					X - 50 kWp	
Rizzi	Via Cotonificio		X			X - 40 kWp	

Relamping LED of 19.000 lights point on 21.170 total (90%)

Saving on CO₂ 914 tons/year

Benefit on current expenditure



Udine University – Energy monitoring

			DAMAGE		UTILIZZO		CONSUMI			
			STAGIONALE	U. P.	CADENZA RILIEVI	UTILIZZO %	Specifiche Errori			
							CONSUMATO REALE	CONSUMO PREVISTO	MAGGIOR/MINOR CONSUMO	
							[kwh]	[kwh]	[kwh]	
Università degli studi di Udine - EE	ID 001 - Polo Scientifico Rizzi IU UUZ - Polo Scien. Cotonificio ed ex <small>Parkat</small>	0053257-001	-20,73%	↗	30	100%		937.642	1.182.811	-245.169
		0053257-002	8,21%	→	30	100%		586.868	542.331	44.537
	ID 003 - Polo Medico Kolbe	0053257-003	-9,27%	→	30	100%		185.228	204.154	-18.926
	ID 004 - Palazzo Antonini-Cernazai	0053257-004	-17,54%	→	30	100%		126.264	153.128	-26.864
	ID 005 - Toppo Wassermann	0053257-005	-10,50%	↘	30	100%		107.001	119.550	-12.549
	ID 006 - Convento di S. Chiara	0053257-006	-16,65%	↘	30	100%		46.882	56.245	-9.363
	ID 007 - Rustici Pagnacco	0053257-007	-38,86%	↗	30	100%		43.342	70.886	-27.544
	ID 008 - Palazzo Florio	0053257-008	-29,73%	↘	30	100%		52.735	75.051	-22.316
	ID 009 - Palazzo Tomadini	0053257-009	-6,27%	↗	30	100%		85.882	91.626	-5.744
	ID 010 - Via Colugna Padiglione Tullio	0053257-010	-20,64%	↗	30	100%		36.222	45.642	-9.420
	ID 011 - Via Larga	0053257-011			30	0%				
	ID 012 - Residence Ginestra	0053257-012	-57,66%	→	30	100%	TAGLIO ALI INFERIORE	20.873	49.295	-28.422
	ID 013 - Palazzo Camavitto	0053257-013	-21,26%	↗	30	100%		9.797	12.443	-2.646
	ID 014 - Palazzina ex Kersevan	0053257-014	-34,92%	↑	30	100%		4.436	6.816	-2.380
	ID 015 - Blanchini	0053257-015	21,12%	↘	30	100%		77.504	63.992	13.512
	ID 016 - Palazzo Caiselli	0053257-016	-10,25%	↗	30	100%		32.839	36.590	-3.751
	ID 017 - Casa dello Studente - Gemona	0053257-017	-15,67%	↗	30	100%		37.713	44.720	-7.007
	ID 018 - Lab. Arch. - Aquileia	0053257-018	-55,45%	↗	30	100%	TAGLIO ALI INFERIORE	74	166	-92
	ID 019 - Casa Lenassi	0053257-019	-42,17%	→	30	100%		4.638	8.020	-3.382
	ID 020 - Azienda Agraria via Pozzuolo	0053257-020	-32,71%	↑	30	100%		16.137	23.983	-7.846
	ID 021 - Rustici via Pozzuolo	0053257-021	-5,40%	↗	30	100%		6.442	6.810	-368
UNIUD - EE	Diffusione:	690	-13,45%	↗		95%	2.418.519	2.794.258	-375.739	

Contract summary

- ✓ Annual fee: € 545.000,00
- ✓ Start date: 1 January 2022
- ✓ Duration: 10 years
- ✓ Total capex: € 2.500.000,00 (*of which € 1.200.000,00 financed by the University*)
- ✓ Capex must be carried out within 18 months



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Thank you!

Questions welcome



Project media