


Building	Pilot R1.2 (National Theatre Prague)
Foto	
Name	National Theatre Prague
Location	Prague
Country	Czech Republic
Type of Building	Theatre
Year of Construction	Originally in 19 th century, modernized in 20 th century
Net Floor Area	49.338 m ²
Occupancy	Average occupancy 1100 + plus visitors
ICT System	
System Structure	Energy supply, Gas, Electric energy
Technical requirements	The integration of ICT helps operators of the buildings to ensure low energy consumption and optimal indoor climate in the buildings.
Frontends and functions	National Theatre, historical and new energy intensive buildings, long-term energy efficiency programme, high efficient boilers, efficient chillers and heat pumps, advanced heating and cooling system, heat recovery, PV cells, high efficient lighting system
Date of Implementation	2011

Physical information	Size of area	Unit
Historic building of ND	10 258	m ²
Underground technical facility	24 477	m ²
Administrative building	7 260	m ²
New Scene of ND	7 343	m ²
Net floor area	49 338	m ²

Indicators (primary and secondary – see D1.2 for further information)	No.	Reference (baseline)	Unit (per year)
Primary energy consumption	1	27 789	MWh
Specific primary energy consumption	1 a	563	kWh/m ²
Delivered electricity	2	5 959	MWh
Specific delivered electricity	2a	121	kWh/m ²
Delivered heating energy	3	5 929	MWh
Specific delivered heating energy	3a	120	kWh/m ²
Delivered cooling energy	4	805	MWh
Specific delivered cooling energy	4a	16	kWh/m ²
CO ₂ Emissions	5	5 319	ton(CO ₂)
Specific CO ₂ Emissions	5a	108	kg(CO ₂)/m ²

Relative reduction of CO ₂ emissions	6	NA	%
Relative energy savings in primary energy	7	NA	%
Energy cost savings – actual costs	8	NA	€
Relative energy cost savings – actual costs	8a	NA	%