Building	Pilot B2				
Photo					
Name	Center of Informatics of Technical University of Braunschweig				
Location	Mühlenpfordtstr. 23, 38106 Braunschweig, Germany				
Country	Germany				
Type of Building	Education / Office				
Year of Construction	1976 / 2001				
Occupancy	90-100 %				
Energy supply	District heating and electrical grid				
Building characteristic:	Educational building, office building, standard from 1970s, low energy building, high potential for				
Keywords	energy savings				
ICT System					
System Structure	Energie Navigator: client/server-based monitoring and analysis framework				
Technical requirements	Existing building management system and data exchange interface, read-only connection to				
	Energie Navigator				
Frontends and functions	Web-frontends for generic information and expert frontends for specific analysis, information to				
	users and building management experts				
Date of Implementation	January 2010	_		T	
Physical information		Old part (1976)		New part (2001)	
Net floor area		8570		8.945	m²
Average U-value of constructions		2,6		0,28	W/(m²·K)
Average U-value of windows		1,1 -	- 3,1	1,6	
Primary indicators		No.		l ',	W/(m²·K)
(see D1.2 for further information)		140.	Baseline	After	Unit
	tion)			After measures	Unit (per year)
Primary energy consumption	,	1	4.066,99	After measures 3.578,95	Unit (per year) MWh
Specific primary energy consu	,	1 1a	4.066,99 232,20	After measures 3.578,95 204,34	Unit (per year) MWh kWh/m²
Specific primary energy consu Delivered electricity	,	1 1a 2	4.066,99 232,20 1.228,19	After measures 3.578,95 204,34 1.080,81	Unit (per year) MWh kWh/m²
Specific primary energy consu Delivered electricity Specific delivered electricity	,	1 1a 2 2a	4.066,99 232,20 1.228,19 70,12	After measures 3.578,95 204,34 1.080,81 61,71	Unit (per year) MWh kWh/m² MWh kWh/m²
Specific primary energy consu Delivered electricity Specific delivered electricity Delivered heating energy	imption	1 1a 2	4.066,99 232,20 1.228,19 70,12 1.053,14	After measures 3.578,95 204,34 1.080,81 61,71 926,76	Unit (per year) MWh kWh/m² MWh kWh/m²
Specific primary energy consultable Delivered electricity Specific delivered electricity Delivered heating energy Specific delivered heating energy	imption	1 1a 2 2a 3 3a	4.066,99 232,20 1.228,19 70,12	After measures 3.578,95 204,34 1.080,81 61,71	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m²
Specific primary energy consultations Delivered electricity Specific delivered electricity Delivered heating energy Specific delivered heating energy Delivered cooling energy	ergy	1 1a 2 2a 3	4.066,99 232,20 1.228,19 70,12 1.053,14	After measures 3.578,95 204,34 1.080,81 61,71 926,76	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh
Specific primary energy consults Delivered electricity Specific delivered electricity Delivered heating energy Specific delivered heating energy Delivered cooling energy Specific delivered cooling energy	ergy	1 1a 2 2a 3 3 3a 4	4.066,99 232,20 1.228,19 70,12 1.053,14	After measures 3.578,95 204,34 1.080,81 61,71 926,76 52,91	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m²
Specific primary energy consultations Delivered electricity Specific delivered electricity Delivered heating energy Specific delivered heating energy Delivered cooling energy	ergy	1 1a 2 2a 3 3a 4	4.066,99 232,20 1.228,19 70,12 1.053,14	After measures 3.578,95 204,34 1.080,81 61,71 926,76 52,91	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh ton(CO ₂)
Specific primary energy consults Delivered electricity Specific delivered electricity Delivered heating energy Specific delivered heating energy Delivered cooling energy Specific delivered cooling energy	ergy	1 1a 2 2a 3 3 3a 4	4.066,99 232,20 1.228,19 70,12 1.053,14 60,13	After measures 3.578,95 204,34 1.080,81 61,71 926,76 52,91 -	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m²
Specific primary energy consultable Delivered electricity Specific delivered electricity Delivered heating energy Specific delivered heating energy Specific delivered cooling energy Specific delivered cooling energy CO ₂ Emissions Specific CO ₂ Emissions Relative reduction of CO ₂ emissions	ergy	1 1a 2 2a 3 3a 4 4a 5	4.066,99 232,20 1.228,19 70,12 1.053,14 60,13 - 1.003,57	After measures 3.578,95 204,34 1.080,81 61,71 926,76 52,91 883,14	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh ton(CO ₂)
Specific primary energy consultable Delivered electricity Specific delivered electricity Delivered heating energy Specific delivered heating energy Delivered cooling energy Specific delivered cooling energy CO ₂ Emissions Specific CO ₂ Emissions	ergy	1 1a 2 2a 3 3 3a 4 4a 5 5 5a	4.066,99 232,20 1.228,19 70,12 1.053,14 60,13 - - 1.003,57 57,30	After measures 3.578,95 204,34 1.080,81 61,71 926,76 52,91 883,14 50,42	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m²
Specific primary energy consultations of the consultation of CO ₂ emissions Relative energy savings in print Energy costs avings - actual costs and consultations of CO ₂ emisters of CO ₂ emissions.	ergy rgy ssions mary energy osts	1 1a 2 2a 3 3 3a 4 4a 5 5 5a 6	4.066,99 232,20 1.228,19 70,12 1.053,14 60,13 - - 1.003,57 57,30	After measures 3.578,95 204,34 1.080,81 61,71 926,76 52,91 883,14 50,42 12,00	Unit (per year) MWh kWh/m² **Ton(CO2) **Rg(CO2)/m² %
Specific primary energy consultations of CO ₂ emired Relative energy specific CO ₂ Emissions Relative energy savings in print Relative energy specific CO ₂ Emissions	ergy rgy ssions mary energy osts	1 1a 2 2a 3 3a 4 4a 5 5 5a 6 7	4.066,99 232,20 1.228,19 70,12 1.053,14 60,13 - - 1.003,57 57,30 -	After measures 3.578,95 204,34 1.080,81 61,71 926,76 52,91 883,14 50,42 12,00 12,00	Unit (per year) MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m² MWh kWh/m² ton(CO ₂) kg(CO ₂)/m² %