

Project information

Project type:	ECO rehabilitation
Address:	Several addresses
End construction year:	1956, 1974-1978
Building type:	Multi family houses
Dwellings:	168
Storeys:	3-7
Persons in building:	N.a.
Gross area BTA:	5,600 m ²
Net area:	N.a. m ²
Window/door area:	N.a. m ²
Total eligible costs:	124 €/m ²
Total costs:	124 €/m ²

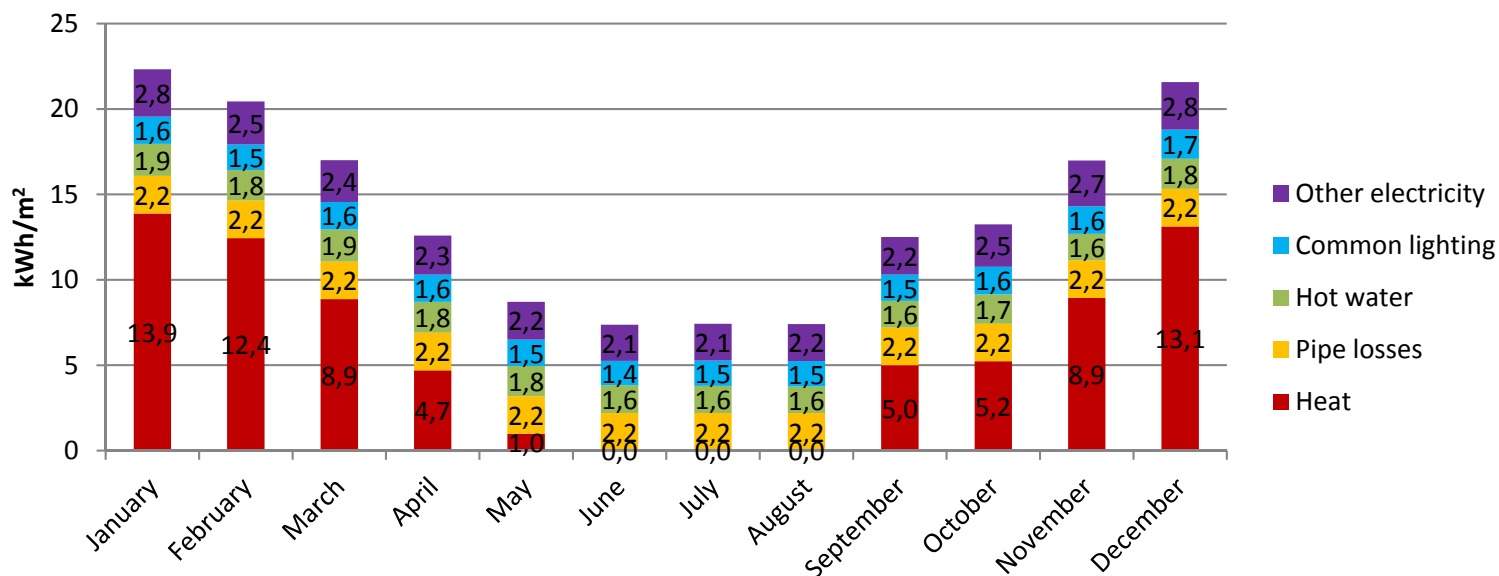
Special ECO-technologies applied:

- Ventilation with heat recovery
- Insulation of gables



Energy consumption

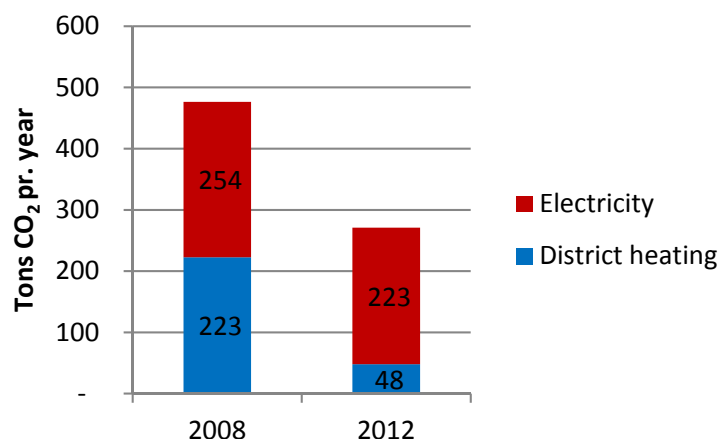
Energy consumption 2012 - Degree day corrected



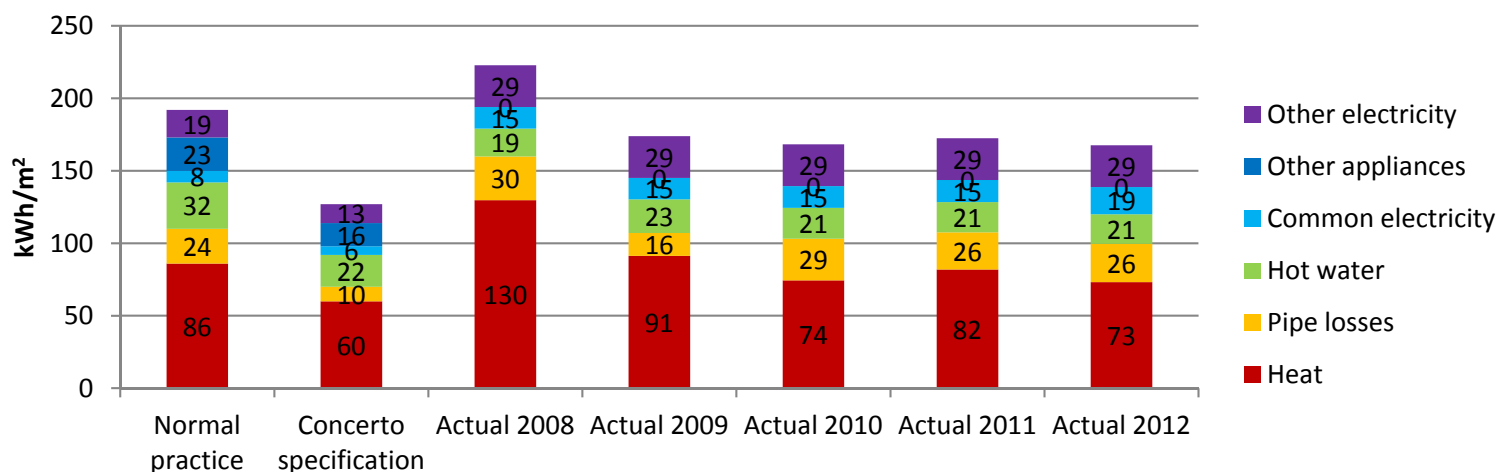
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Lessons learned:

CO₂ emission



Energy - specifications and consumption



Key figures

Heat trans.	Unit	Normal practice	Concerto spec.	Actual	Energy consumption	Unit	Normal practice	Concerto spec.	Actual 2008	Actual 2012
Outerwall	W/m ² K	-	0.25	0.23	Heat	kWh/m ²	86	60	130	73
Roof	W/m ² K	-	0.2	0.1	Pipe losses	kWh/m ²	24	10	30	26
Floor	W/m ² K	-	0.25	0.25	Ventilation	kWh/m ²	28	20	-	-
Windows	W/m ² K	-	1.1	1.1	Hot water	kWh/m ²	32	22	19	21
Glazing	W/m ² K	-	<1.1	0.95	Total heat	kWh/m²	170	112	179	120
Doors	W/m ² K	-	-	1.2	Lighting	kWh/m ²	31	22	15	19
Vent. rate	h ⁻¹	-	0.5	0.5	Other	kWh/m ²	19	13	29	29
					Total elec.	kWh/m²	50	35	44	48
					Solar heat	kWh/m ²	0	0	0	0
					Total	kWh/m²	220	147	223	168

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