

Project information

Project type:	New eco-light dwellings
Address:	Bivårksgatan 2-32, Käramesgatan 2-44, 1-33 Tornfalksgatan 1-27
End construction year:	2008
Building type:	Apartment row houses
Dwellings:	69
Storeys:	2
Persons in building:	219
Gross area BTA:	7098 m ²
Net area:	5675 m ²
Heated area:	5879 m ²
Window/door area:	1192 m ²
Total eligible costs:	
Total costs:	43.7 €/m ²



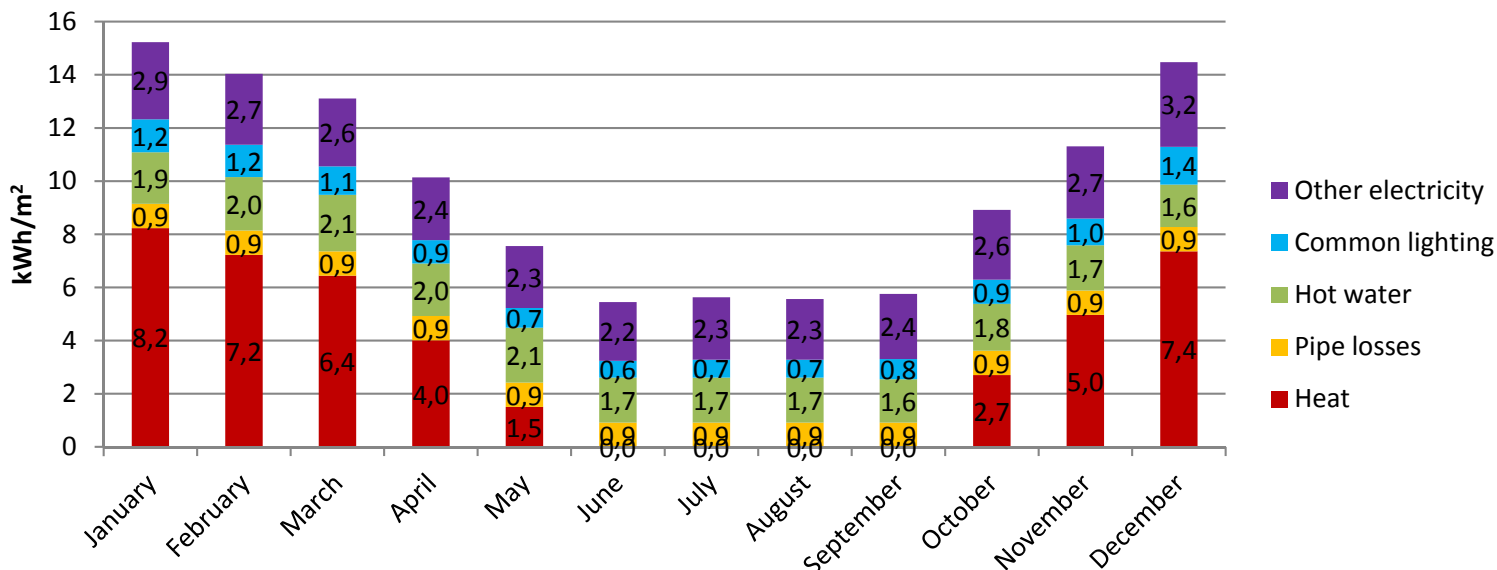
Special ECO-technologies applied:

- Optimisation of window type
- Thermal bridges avoided
- Increased insulation
- Ventilation with heat recovery
- Pipe/valve insulation on heating
- DHW pipes + boiler room
- Water savings fixtures
- Demand controlled circulation
- Central control system



Energy consumption

Energy consumption 2012 - Degree day corrected

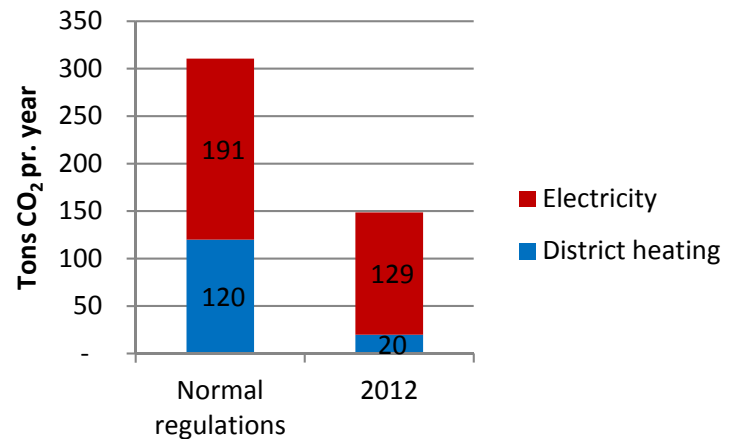


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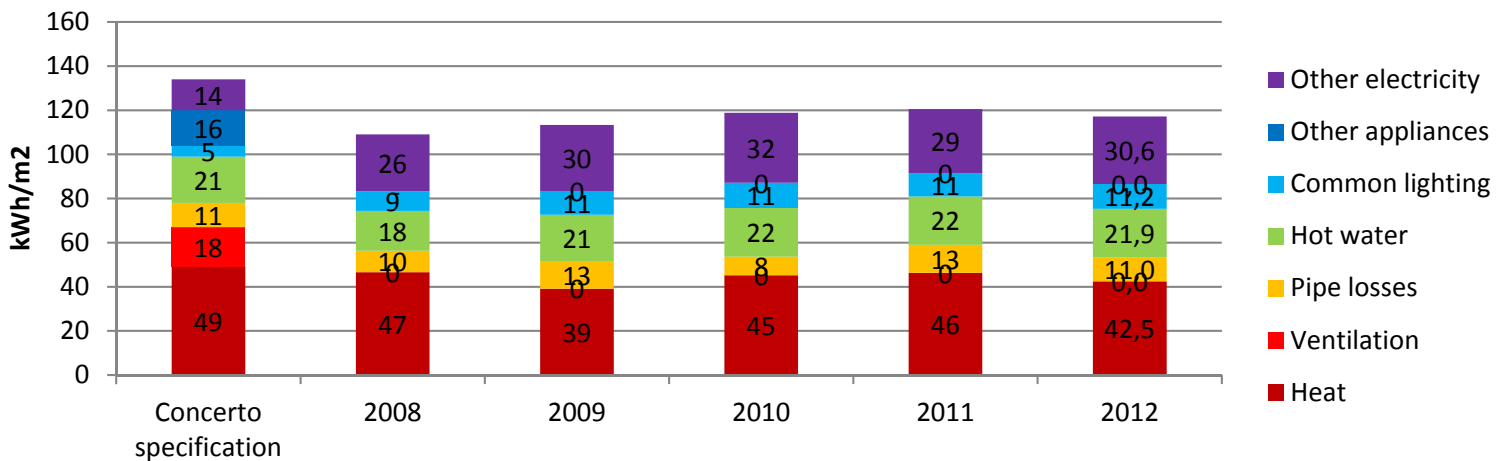
Lessons learned:

- Cheap light facades with plaster perform well
- Balconies can be fixed with out cold bridges

CO₂ emission



Energy - specifications and consumption



Key figures

Heat trans.	Unit	Normal practice	Concerto spec.	Actual	Energy consumption	Unit	Normal practice	Concerto spec.	Actual 2011	Actual 2012
Outerwall	W/m ² K	0.4	0.25	0.244	Heat	kWh/m ²	96	67	46	42
Roof	W/m ² K	0.25	0.2	1.03	Pipe losses	kWh/m ²	24	11	13	11
Floor	W/m ² K	0.3	0.25	0.138-0.216	Ventilation	kWh/m ²	-	-	-	-
Windows	W/m ² K	N.A.	1.1	1.2	Hot water	kWh/m ²	27	21	22	22
Glazing	W/m ² K	1.8	<1.1	1.0	Total heat	kWh/m²	147	99	81	75
Doors	W/m ² K	-	-	1.0	Lighting	kWh/m ²	50	35	11	11
Vent. rate	h ⁻¹	-	0.5	0.52	Other	kWh/m ²	-	-	29	31
					Total elec.	kWh/m²	50	35	40	42
					Solar heat	kWh/m ²	0	0	0	0
					Total	kWh/m²	197	134	121	117

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