

Ν		lish Building oduced in Febru	•	3R 09)
Climate Zone	Specific end-use energy* (kWh/m ² yr)		Average U-value (W/m ² K)	
	Electric heating	Non-electric heating	Electric heating	Non-electric heating
I	95	150	0.40	0.50
II	75	130	0.40	0.50
Ш	55	110	0.40	0.50
		rgy is delivered en ctricity for fans and		e and tap water

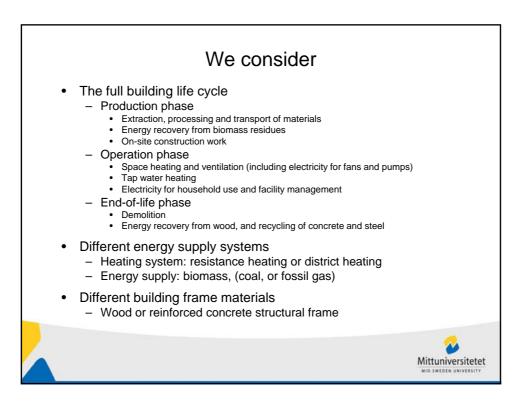
Life cycle primary energy implication of the new building code - Case study building

- Växjö, Sweden
- Climate Zone III
- 4 stories
- 16 apartments
- 1190 m² usable floor area



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We compared 2 versions of this building, built to the Swedish energy standards of the mid-1990s and to the new 2009 code



Description	Original buildings (mid-1990s buildings)	BBR 09 district heated buildings	BBR 09 resistanc heated buildings
Ground floor U-value	0.23	0.23	0.20
External walls U-value	0.23	0.23	0.10
Windows U-value	1.9	1.2	1.0
Doors U-value	1.19	1.19	1.0
Roof U-value	0.13	0.13	0.10
Mechanical Ventilation	For exhaust air	For exhaust air	With heat recovery
Hot water taps	Conventional	Conventional	Energy efficeint
Specific end-energy use	113	102	52

