



INVESTMENT COST & CONSUMPTION

Infrared heater Dimensioning	Room Size	Power in kW	Investment cost in EUR	Daily Usage in h	Consumption in kWh/day
Living room	30	1.4	570	7	9.8
Bedroom	20	1.08	520	4	4.32
Children's room I	16	1.08	520	6	6.48
Children's room II	18	1.08	520	6	6.48
Kitchen	12	0.7	285	5	3.5
Bathroom	6	0.5	440	4	2
Thermostats			450		
TOTAL	102	5.84	3305		32.58

*Assumption: House insulation is average



BREAKDOWN: CONSUMPTION, INVESTMENT, MAINTENANCE COST

Heating days/year	Heating consumption	Household appliances	Electricity cost/kWh	PV-system	PV-battery	Feed-in tariff/kWh	Gas cost/kWh
180	5864.4 kWh	4000kWh	0.35EUR	9kWp	9.2kWh	0.11 EUR	0.09EUR

Infrared+PV+storage	Cost	Gas heating	Cost
Investment PV+battery	23800	Investment gas heater	6500
Investment Infrared heater	3305	Investment Pipework	12000
Profits from Feed-it tariff	8530	Cost of Gas & maintenance	13800
Cost for electricity for heating and household	28933.8	electricity cost for household consumption	28000
Total cost over 20 years	47508.8	Total cost over 20 years	60300

 Infrared & PV is cheaper than gas heaters broken down over 20 years!