



Slovenske Konjice (Slovenia)

41 % energy saving

Total living expenses lower than before renovation

Nearly all users have chosen for energy saving measures

Project data

| | |
|--------------------------------------|---|
| Location, address: | Slomškova ulica 5,7 |
| Region: | Slovenske Konjice |
| Surroundings: | East of the country; |
| Climate: | Continental |
| Heating degree days: | 3200 |
| Year of construction and renovation: | 1975-77(constructed); 2002 - 2004 (renovated) |
| Typology: | Apartment building |
| No of dwellings: | 76 dwellings |
| Total floor area: | 4566 |
| Owner: | Various private owners, building management: Finance Operativa d.o.o. |
| Architect and Builder: | |
| Costs of energy saving measures: | € 3.500 |
| Renovation financed by: | The owners |



Figure 1: Apartment building on Slomškova ulica 5, 7 after renovation central heating regulation

Renovation concept

Key renovation features

- Central regulation
- Heat billing and metering of energy use

State-of-the-art

Before renovation

Installations:

- No heat billing and metering of energy use
- No central regulation

After renovation

Installations:

- heat billing and metering of energy use
- Install central regulation

Energy saving and monitoring

Energy consumption before renovation:

KWh/m²: 136

Energy consumption after renovation:

KWh/m²: 80

Percentage saving¹: 41%

Additional information

- The main reasons for the renovation of installations have been an insufficient maintenance state, complaints of tenants regarding regulation and thermal comfort, further intention of the housing association to implement energy saving measures.
- An examination of energy efficiency of the building was carried out.

The recommended measures were the following:

- heat billing and metering of energy use,
- Install central regulation

Lessons learned and conclusions

- The housing association has proved that it is possible to renovate apartments installations radically, reach high energy savings and prevent rising of total living expenses. The benefit for the occupants is manifested through lower heating costs and higher level of thermal comfort.

References

[1] Housing Found of Slovenske Konjice Municipalities

¹ Compared to the situation before renovation