

The simulation model is a special SUREURO tool, part of the Information system.

The Simulation model shall be used to demonstrate, by simulation, that possible targets can be met using the knowledge and tools developed in the SUREURO project.

The results for the savings are given both as absolute values and percentages.

The image displays two screenshots of the SUREURO Simulation Model interface. The top screenshot shows the 'General information' and 'Parameters' input screens, which include various fields for user input such as 'Number of dwellings', 'Year of built completion', and 'Calculation period'. The bottom screenshot shows the 'Simulation model WP6' results screen, which features a bar chart titled 'Savings, percentage' comparing 'before' and 'after' scenarios for 'Electricity', 'Heating', and 'Water'. Below the chart, there are tables for 'Savings, absolute' and 'Savings, percentage'.

The model operates in an Excel environment and calculates for given scenario's the situation before and after refurbishment:

- Real estate investments (Housing companies)
- Real estate life time exploitation (NPV Housing companies)
- Sustainability impact real estate (Housing companies)
- Sustainability impact households. (Use of energy, water, waste)

Input data for the situation before refurbishment are derived from measurement in the pilot projects.

The calculations take into account the following variables:

- Tenant characteristics before and after (age, family size),
- Changes in tenants behaviour (participation, education, information campaigns)
- Physical properties of the estate
- Technical refurbishment solutions adopted included investments.
- Sustainability options chosen included investments.

For more information regarding SUREURO Simulation Model, please contact Mr Karel Dekker:

**E-mail:** k.dekker@tno.bouw.nl or **Phone:** +31 15 269 5225