



## Deliverable

D1.4: Extract of the project data from the LIFE KPI Webtool

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## 1. Extract from the KPI webtool

*Table 1 Overview of LIFE CET Indicators*

LIFE CET Indicators	Product end value	5 years beyond
1. Primary Energy Savings (GWh/year)	3.042	9.36
<i>Residential buildings</i>	<i>3.042</i>	<i>9.36</i>
2. Final Energy Savings (GWh/year)	1.38	4.3
<i>Residential buildings</i>	<i>1.38</i>	<i>4.3</i>
3. Renewable Energy Generation (GWh/year)	0.92	3.31
<i>Residential buildings</i>	<i>0.92</i>	<i>3.31</i>
4. GHG emissions (tCO <sub>2</sub> eq/year)	269.95	834.4
<i>Residential buildings</i>	<i>269.95</i>	<i>834.4</i>
5. Investments in sustainable energy (mEUR)	2.275	9.100
<i>Residential buildings</i>	<i>2.275</i>	<i>9.100</i>
6. Legislation & policy (No. documents)	3	3
7. Market introduction (No. products/processes/methods)	0	0
8. Implementation sites (No. real-life sites)	0	0
9. Skills (No. of people trained)	10	10
10. Communication (No. of people)	10000	15000
11. Employment (FTE)	0	0

## 1.1 KPI 1 - Primary Energy Savings

Primary energy savings are calculated from Final energy savings (section 1.2).

According to Energy Efficiency Directive the primary energy factor (PEF) for converting electricity savings into primary energy savings in Croatia is 2.1. This factor reflects the energy mix and efficiency of electricity production and distribution, which has been revised down from the previous factor of 2.5. This adjustment aligns with the broader EU's efforts to improve energy efficiency and more accurately reflect the current state of electricity production across the member states.

Furthermore, heat energy savings were calculated where possible and included in primary energy savings as well. "Soft measures" like workshops, info days, consultations, flyers, brochures, were considered too and implemented as primary energy savings measures.

*Table 2 Primary Energy Savings*

LIFE CET Indicators	Product end value	5 years beyond
1. Primary Energy Savings (GWh/year)	3.042	9.36
<i>Residential buildings</i>	3.042	9.36

## 1.2 KPI 2 – Final Energy Savings

During the project, 130 dwellings will be renovated to improve their energy efficiency performance. Final energy savings are calculated based on the average energy consumption of each household (dwelling). Since the most dwellings installed the PV power plant on their roofs, the amount of electricity sent to the power grid was considered. Dwellings that decided to replace old doors and windows with PVC and dwellings that put insulation on the outer shell were considered as well. Based on their relevant surface, heat energy savings were calculated. The same was applied to dwellings that decided to use heat pumps. "Soft measures" like workshops, info days,

consultations, flyers, brochures, were considered too and implemented as final energy savings measures based on attendance, average heat and electricity annual consumption per capita in Croatia and conversion factor for each event.

*Table 3 Final Energy Savings*

LIFE CET Indicators	Product end value	5 years beyond
2. Final Energy Savings (GWh/year)	1.38	4.3
<i>Residential buildings</i>	<i>1.38</i>	<i>4.3</i>

### 1.3 KPI 3 – Renewable Energy Generation

Most of the renovated dwellings will have, or already have, PV power plants that will generate electricity. Electricity generated from PV power plants is considered as renewable energy generation which is calculated as the average annual generation based on PV power, performance ratio and insolation factor that depends on geographical location.

*Table 4 Renewable Energy Generation*

LIFE CET Indicators	Product end value	5 years beyond
3. Renewable Energy Generation (GWh/year)	0.92	3.31
<i>Residential buildings</i>	<i>0.92</i>	<i>3.31</i>

### 1.4 KPI 4 – GHG Emissions

To calculate GHG emissions and savings the conversion factor for electricity was used. In Croatia, that factor is 0.159. Emissions were calculated as the product of energy consumption and emission factor. GHG emissions savings were calculated as well by using energy

savings instead of energy consumption. Emission factor depends on the energy mix used to generate the electricity. GHG emissions savings for the heat energy consumption will be consider as well.

*Table 5 – GHG Emissions*

LIFE CET Indicators	Product end value	5 years beyond
4. GHG emissions (tCO <sub>2</sub> eq/year)	269.95	834.4
<i>Residential buildings</i>	<i>269.95</i>	<i>834.4</i>

### 1.5 KPI 5 – Investments in sustainable energy

All renovated dwellings will invest in sustainable energy in some way. Investments in PV power plants, heat pumps, electric vehicles charging stations and improving dwelling’s insulation can all be considered as investments in sustainable energy. Calculations will be made as a sum of all investments sustainable energy in all dwellings.

*Table 6 Investments in sustainable energy*

LIFE CET Indicators	Product end value	5 years beyond
5. Investments in sustainable energy (mEUR)	2.275	9.100
<i>Residential buildings</i>	<i>2.275</i>	<i>9.100</i>

### 1.6 KPI 6 – Legislation & policy

During the project implementation we are not designing any legislation & policy because Programs that are related to crOss renoHome project are in implementation until 2030 like:

1. Programme for alleviation of energy poverty, which includes the use of renewable energy sources in residential buildings in areas of special state until 2025 (Official Gazette, No. 143/2021)
2. Programme for energy renovation of multi-apartment buildings for the period up to 2030 (Official Gazette, No. 143/2021)
3. Programme of energy renovation of family houses 2014 - 2020 – the programme is planned to continue according to the Energy Renovation Programme for Single-family Houses

But during the crOss renoHome project we will keep track of those 3 Programs:

- Dynamics of publishing public calls
- Type of program (Programme of energy renovation of family houses or Programme of energy renovation of multi-apartment buildings)
- Type of calls (public calls for all households (family house or multiapartment buildings) or public calls for energy-poor households)
- Funds allocated for the call
- Number of households with signed contracts under the call

*Table 7 Legislation & policy*

LIFE CET Indicators	Product end value	5 years beyond
6. Legislation & policy (No. documents)	3	3

### 1.7 KPI 7 – Market introduction

There will be no market introductions during the project’s duration.



*Table 8 Market introduction*

LIFE CET Indicators	Product end value	5 years beyond
7. Market introduction (No. products/processes/methods)	0	0

### 1.8 KPI 8 – Implementation sites

There will be no implementation sites during the project’s duration.

*Table 9 Implementation sites*

LIFE CET Indicators	Product end value	5 years beyond
8. Implementation sites (No. real-life sites)	0	0

### 1.9 KPI 9 – Skills

During the project and afterwards, 10 people will be trained as energy advisors. Training sessions will be held and recorded online as well.

*Table 10 Skills*

LIFE CET Indicators	Product end value	5 years beyond
9. Skills (No. of people trained)	10	10

### 1.10 KPI 10 – Communication

It is expected that at least 10000 people will be reached either in person or in any other way of communication including social media (LinkedIn, Facebooks, Instagram). The project will reach 15000 people 5 years after the project’s end and beyond.

*Table 11 Communication*

LIFE CET Indicators	Product end value	5 years beyond
10. Communication (No. of people)	10000	15000

### 1.11 KPI 11- Employment

There will be no employment during and beyond the project’s end.

*Table 12 Employment*

LIFE CET Indicators	Product end value	5 years beyond
11. Employment (FTE)	0	0



**crOss renoHome**  
Croatian One Stop Shop for Integrated Home Renovation

