

P4C Data collection template

SOURCE

Internal Plan4Cold template

DEVELOPER

Plan4COLD

TYPE OF RESOURCES

Data collection and planning support tool

AVAILABLE FOR FREE/LICENSE

Free (Excel-based, no additional license required)

USER FRIENDLINESS

Moderate — structured but requires technical and sectoral data knowledge

TUTORIALS AVAILABLE

“Read me_Instructions” sheet

1-Municipality characterization														
1	Municipality's main data	Unit	ref. Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
1.1	Population													
1.2	Total Area	m2												
2	Social indicators	Unit	ref. Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
2.1	Energy poverty indicators (national, municipal, parish (%))	%												
2.2	Inability to keep home adequately warm	%												
2.3	Population living in dwellings comfortably warm in winter time	%												
2.4	Population living in dwellings comfortably cool in summer time	%												
2.5	Population living in a dwelling equipped with air conditioning	%												
2.6	Population living in a dwelling equipped with heating facilities	%												
3	Composite vulnerability index	Unit	ref. Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
3.1	Global vulnerability index	na												
3.2	Sub-dimension: Social	na												
3.3	Sub-dimension: Economic	na												
3.4	Sub-dimension: Political	na												
3.5	Sub-dimension: Environmental	na												
3.6	Sub-dimension: Physical	na												
							Areas with							

SHORT DESCRIPTION

The Plan4COLD Data Collection Template is a structured Excel-based tool developed to support municipalities in collecting, organising, and validating the baseline data required for the development of Sustainable Local Heating & Cooling Plans (SLHCP).

The template enables municipalities to compile key information across multiple sectors, including municipal characterisation, climate conditions, energy consumption, building stock, industry, agriculture, local energy supply, and greenhouse gas emissions.

Its main purpose is to ensure a harmonised and comparable data collection process across municipalities, providing the necessary input for energy system modelling, scenario development, and roadmap design.

OUTPUT OF THE TOOL

- Structured baseline dataset for municipal H&C planning
- Characterisation of building stock (residential and tertiary sectors)
- Sectoral energy consumption profiles
- Local energy supply mapping
- Greenhouse gas emissions inventory
- Input data for energy modelling and scenario analysis
- Support for identifying decarbonisation priorities and measures

PHASE OF THE H&C PLAN

Phase 2: Baseline assessment

Supports:

- Initial diagnosis of the municipality
- Identification of energy demand patterns
- Mapping of supply and demand
- Preparation for scenario modelling
- Evidence-based roadmap development

REQUIRED INPUT

The template requires municipalities to provide:

- General municipality information
- Climate zone classification
- Total energy consumption data
- Tertiary building stock data:
 - Municipal buildings
 - Other public buildings
 - Private tertiary buildings
- Residential building stock data:
 - Municipal residential
 - Other public residential
 - Private residential
- Industrial energy consumption
- Agriculture, forestry and fisheries energy use
- Local energy generation and supply data
- Greenhouse gas emissions data
- Relevant emission factors and energy conversion factors

MAIN ADVANTAGES

- Standardised data collection across municipalities
- Comprehensive sectoral coverage
- Facilitates consistency and comparability of results
- Organised by thematic sheets for easier completion
- Directly supports modelling and planning activities
- Flexible and adaptable to different municipal contexts
- Uses a familiar and accessible format (Excel)

MAIN DISADVANTAGES

- Requires significant data availability from municipalities
- Some fields may be difficult to complete due to data gaps
- Time-consuming for municipalities with limited technical capacity
- Quality of outputs depends on accuracy of inserted data
- Requires coordination between multiple municipal departments