

Local Authority Common Ask Electricity



Checklist – Heat Pump, Resistive Heating and Biomass

Quick reference checklist for assembling data for your local network operator's forecasting from a Local Area Energy Plan for Heat Pump, Resistive Heating and Biomass

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Acronyms and Abbreviations

Name	Description
LAEP	Local Area Energy Plan
LSOA	Lower Layer Super Output Areas
DFES	Distribution Future Energy Scenarios
ONS	Office for National Statistics

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1. INTRODUCTION

This checklist was written to accompany version 2 of the LAEP input for modelling Local Authority Common Ask. It is designed to be a quick reference guide to help with the assembly of the data required for your local network operator's forecasting tool, but the Local Authority Common Ask definition itself is to be used as the comprehensive definition of requirements. This checklist specifically covers the compilation of heat pump, resistive heating and biomass uptake data. Other checklists are provided to support the compilation of data for other technologies.

2. HEAT PUMP, RESISTIVE HEATING AND BIOMASS

Note that if possible, domestic and non-domestic heating should be provided separately for this technology. For more information, see the Heat Pumps, Resistive Heating and Biomass guide.

Note that in the reference data set, the households with the heating technologies described are assumed to have a single dedicated source of heating for that household. The LAEP data provided should align to this classification of heating technology usage to ensure that fair comparisons can be made to other scenarios.

2.1 Heating Technology Definitions

☐ Complete each row with the corresponding category name used in the data file, leaving them blank if not covered by the data. Check the detailed descriptions for clarification on the definition of each template category.

laep_heating_technology_definition	sfs_heating_technology_definition	sfs_heating_technology_definition_description
	DOMESTIC_ASHP_ATA	Domestic buildings using air source heat pumps based on air to air technology

Figure 1: The first line of the heating technology definition table.

2.2 Heating Technology Building Archetype Definitions

☐ Complete each row with the corresponding category name used in the data file, leaving them blank if not covered by the data. Check the detailed descriptions for clarification on the definition of each template category.

☐ Ensure that categories are defined such that from the data an individual building will not move between categories over the modelled period.

☐ Check that only individual building heating technology uptake is included in the categorisation, excluding other forms heating such as district heating.

laep_heating_technology_building_archetype_definition	sfs_heating_technology_building_archetype_definition	fuel	size	age	sfs_heating_technology_building_archetype_definition_description
	DOMESTIC_FUEL_GAS_SIZE_SMALL_AGE_VERY_OLD	Gas	Small	Very Old	Domestic building using natural gas as a primary fuel for heating, with 1-2 bedrooms (small), and which were built before 1918 (very old).

Figure 2: An example of the first line of the building archetype definition table for heating technologies.

2.3 Domestic Heat Pump, Resistive Heating and Biomass Uptake Data

☐ Convert the LAEP output data on domestic heating uptake into a CSV indexed by geographical area, building archetype definition and heating technology definition.

☐ Check that the percentage uptake data provided has values between 0 and 100.

☐ Check that the geographic area naming of the data exactly matches the naming used for the area stated in the Local Authority Common Ask questionnaire, wither custom or official (check the [ONS Open Geography Portal](#) for official boundary naming definitions).

☐ If providing LSOA level data, check that data is only included for LSOAs listed in the “List of relevant 2011 LSOAs” or “List of relevant 2021 LSOAs” files provided in the “General Information” folder.

☐ Check that the heating technology column has names exactly matching the “laep_heating_technology_definition” in the accompanying definition CSV.

☐ Check that the building archetype column has names exactly matching the “laep_heating_technology_building_archetype_definition” in the accompanying definition CSV.

☐ Ensure that each year between the base year and 2050 has a column, even if empty.

☐ If relevant for your LAEP, ensure that the year definition used for the data matches the definition given in the Local Authority Common Ask questionnaire in the “General Information” folder.

☐ Add a column with the LAEP name to indicate the data origin.

☐ Make sure naming doesn’t have typos (check capitalisation, spelling, spaces).

☐ Make sure the file is saved in the CSV UTF-8 (Comma delimited) format.

laep_name	geographical_area	laep_heating_technology_building_archetype_definition	laep_heating_technology_definition	unit	2023
TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	%	TO BE COMPLETED BY LAEP PRACTITIONER - COMPLETE ALL YEARS FOR WHICH YOUR LAEP REPORTS DATA

Figure 3: First row of domestic heating uptake data template including first year of data, with comments detailing how data should be entered. Identical to non-domestic template.

2.4 Non-domestic Heat Pump, Resistive Heating and Biomass Uptake Data

☐ Convert the LAEP output data on non-domestic heating uptake into a CSV indexed by geographical area, building archetype definition and heating technology definition.

☐ Check that the percentage uptake data provided has values between 0 and 100.

☐ Check that the geographic area naming of the data exactly matches the naming used for the area stated in the Local Authority Common Ask questionnaire, wither custom or official (check the [ONS Open Geography Portal](#) for official boundary naming definitions).

☐ If providing LSOA level data, check that data is only included for LSOAs listed in the “List of relevant 2011 LSOAs” or “List of relevant 2021 LSOAs” files provided in the “General Information” folder.

☐ Check that the heating technology column has names exactly matching the “laep_heating_technology_definition” in the accompanying definition CSV.

☐ Check that the building archetype column has names exactly matching the “laep_heating_technology_building_archetype_definition” in the accompanying definition CSV.

☐ Ensure that each year between the base year and 2050 has a column, even if empty.

☐ If relevant for your LAEP, ensure that the year definition used for the data matches the definition given in the Local Authority Common Ask questionnaire in the “General Information” folder.

☐ Add a column with the LAEP name to indicate the data origin.

☐ Make sure naming doesn’t have typos (check capitalisation, spelling, spaces).

☐ Make sure the file is saved in the CSV UTF-8 (Comma delimited) format.

laep_name	geographical_area	laep_heating_technology_building_archetype_definition	laep_heating_technology_definition	unit	2023
TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA, BUILDING ARCHETYPE AND HEATING TECHNOLOGY IN YOUR LAEP	%	TO BE COMPLETED BY LAEP PRACTITIONER - COMPLETE ALL YEARS FOR WHICH YOUR LAEP REPORTS DATA

Figure 4: First row of non-domestic heating uptake data template including first year of data, with comments detailing how data should be entered. Identical to domestic template.