

Local Authority Common Ask Electricity

Checklist - Domestic Thermal Efficiency



Quick reference checklist for assembling data for your local network operator's forecasting from a Local Area Energy Plan for Domestic Thermal Efficiency

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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

1. INTRODUCTION

This checklist was written to accompany version 7 of the LAEP input for modelling LACA. 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 LACA definition itself is to be used as the comprehensive definition of requirements. This checklist specifically covers the compilation of domestic thermal efficiency data. Other checklists are provided to support the compilation of data for other technologies.

2. DOMESTIC THERMAL EFFICIENCY

☐ If using, complete the Local Authority Common Ask questionnaire sheet titled "DFES Scenario Selector" with your selected scenario.

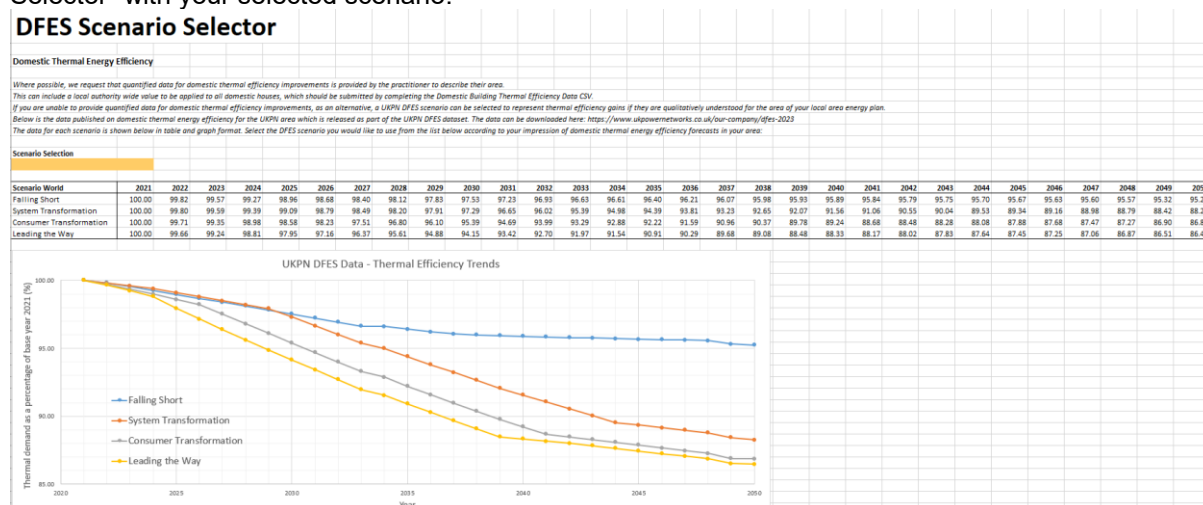


Figure 1: The DFES scenario selector tab to be used in domestic building efficiency cannot be provided in the preferred format.

2.1 Efficiency 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.

laep_efficiency_building_archetype_definition	sfs_efficiency_building_archetype_definition	fuel	size	age	sfs_efficiency_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.

2.2 Domestic Building Efficiency Data

☐ Convert the LAEP output data on domestic building thermal efficiency improvements in annual demand into a CSV indexed by geographical area and building archetype definition.

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

- ☐ Ensure that the right type of data is provided - % impact if using the “Quantified Thermal Demand” unit, and % of buildings with a measure adopted if using the “Thermal Efficiency Measures Adopted” unit.
- ☐ 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 building archetype column has names exactly matching the “laep_efficiency_building_archetype_definition” in the accompanying definition CSV.
- ☐ If using the “Thermal Efficiency Measures Adopted” unit, check that the names in the “laep_efficiency_measure_name” column exactly match the names provided in the “efficiency_measures_domestic_data_template_v7” sheet. Otherwise, leave this column blank.
- ☐ If using the “Thermal Efficiency Measures Adopted” unit, ensure that each combination of geographical area, building archetype definition and measure have a corresponding row in the “efficiency_measures_domestic_data_template_v7” sheet.
- ☐ 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_efficiency_building_archetype_definition	laep_efficiency_measure_name	unit	2023
TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA AND BUILDING ARCHETYPE IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA AND BUILDING ARCHETYPE IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA AND BUILDING ARCHETYPE IN YOUR LAEP	OPTIONAL - TO BE COMPLETED BY LAEP PRACTITIONER - IF USING, ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA AND BUILDING ARCHETYPE AND DEFINED EFFICIENCY MEASURE IN YOUR LAEP	As defined in data dictionary questionnaire	TO BE COMPLETED BY LAEP PRACTITIONER - COMPLETE ALL YEARS FOR WHICH YOUR LAEP REPORTS DATA

Figure 3: First row of domestic building thermal efficiency data template including first year of data, with comments detailing how data should be entered.

2.3 Domestic Building Thermal Efficiency Measures Data

NOTE: If the preferred unit domestic building annual thermal demand as a percentage of base year annual demand is used, then the Domestic Building Thermal Efficiency Measures Data file does not need to be provided.

- ☐ Quantify the LAEP output data on domestic building thermal efficiency improvements per measure into a CSV indexed by geographical area and building archetype definition.
- ☐ Check that the percentage efficiency 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 building archetype column has names exactly matching the “laep_efficiency_building_archetype_definition” in the accompanying definition CSV.
- ☐ Ensure that each combination of geographical area, building archetype definition and measure have a corresponding row in the “efficiency_building_thermal_domestic_data_template_v7” sheet.
- ☐ 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_efficiency_building_archetype_definition	laep_efficiency_measure_name	laep_efficiency_measure_impact
TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA AND BUILDING ARCHETYPE IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA AND BUILDING ARCHETYPE IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ADD ROWS FOR EACH COMBINATION OF GEOGRAPHICAL AREA AND BUILDING ARCHETYPE IN YOUR LAEP	TO BE COMPLETED BY LAEP PRACTITIONER - ENTER A UNIQUE NAME FOR EACH EFFICIENCY MEASURE MODELLED	TO BE COMPLETED BY LAEP PRACTITIONER - ENTER A PERCENTAGE VALUE FOR THE REDUCTION IN DEMAND

Figure 4: First row of domestic building thermal efficiency data template, with comments detailing how data should be entered.