

# Quick tour of Jersey SAP

This is a brief overview for new users on how to use the Jersey SAP interface. This includes navigating the interface, entering data and running the calculation to produce output reports. To get started, look through the example project as shown in the annotated screenshots on the following slides

Click to view your projects

The screenshot shows the homepage of the Jersey SAP Calculator. The header features the text "Jersey SAP Calculator Developed by BRE." on the left and the "States of Jersey" logo on the right. A navigation bar below the header contains a "Home" link. The main content area is divided into two columns. The left column contains a welcome message, a link to a "quick tour guide", and a paragraph of introductory text. The right column contains a vertical menu with five items: "Home", "My Projects" (which is highlighted with a left-pointing arrow), "New Project", "Downloads", and "FAQs". A callout box with the text "Click to view your projects" is positioned above the "My Projects" menu item, with a line pointing to the arrow.

**Jersey SAP Calculator**  
Developed by BRE.

States of Jersey

[Home](#)

**Welcome back to Jersey SAP**  
**BRE SAP Engine**

**First time using Jersey SAP?**  
Have a look at the [quick tour guide](#) before you get started.

This website provides support for the use of a tool designed to produce energy performance assessments for domestic buildings as required by the Jersey Building Bye-laws. When provided with details about the dwelling configuration the Calculator will show if the energy performance targets set by the building bye-law have been met, and it will provide an energy performance certificate giving an estimate of the likely running costs, SAP ratings, etc.

The Jersey SAP tool was created by BRE.

[Home](#)

[My Projects](#) ←

[New Project](#)

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[FAQs](#)

# My projects

The screenshot shows the 'My Projects' page of the Jersey SAP Calculator. At the top, there is a header with the text 'Jersey SAP Calculator Developed by BRE.' and the 'States of Jersey' logo. Below the header, there is a navigation menu with buttons for 'Home', 'My Projects', 'New Project', 'Downloads', and 'FAQs'. The main content area is titled 'Your projects on Jersey SAP BRE Jersey SAP Calculator' and contains a list of projects. The first project is 'Example - Simple detached 2013' with the address '1 Any Road, , , Any Town' and post code 'JE1 1AA'. A 'Delete' button is next to the project name. Three callouts are present: 1. An arrow points from the callout box to the project name 'Example - Simple detached 2013'. 2. An arrow points from the callout box to the 'Delete' button. 3. An arrow points from the callout box to the 'New Project' button in the navigation menu.

Jersey SAP Calculator  
Developed by BRE.

States of Jersey

[Home](#)

**Your projects on Jersey SAP**  
**BRE Jersey SAP Calculator**

Your current projects are listed below. Choose (by clicking on the name) any project you wish to open. To create a new project, follow the link from the menu on the right.

Number of projects : 1.

Name of project	Post Code	Delete?
<a href="#">Example - Simple detached 2013</a> Address: 1 Any Road, , , Any Town	JE1 1AA	<input type="button" value="Delete"/>

Home

My Projects

New Project

Downloads

FAQs

1. To open a project, click on the project name
2. Clicking these buttons will delete whole projects
3. Click to create a new project

# Create new project

1. Click here to create a new project from scratch

The screenshot displays the 'Jersey SAP Calculator' interface. At the top, it says 'Jersey SAP Calculator Developed by BRE.' and the 'States of Jersey' logo. A navigation menu on the right includes 'Home', 'Assessor details', 'My Projects', 'New Project', 'Downloads', and 'FAQs'. The main content area has two sections: 'Create a Project BRE Jersey SAP Calculator' with a 'New project' sub-section containing a 'Click to create new project' button labeled 'Create', and 'Duplicate an existing project' sub-section with a dropdown menu showing 'Example - Simple detached 2013' and a 'Duplicate' button. A modal dialog box is open, titled 'The page at jsap.je says:', with the prompt 'Please enter a unique name:' and an empty text input field. 'OK' and 'Cancel' buttons are at the bottom of the dialog. Arrows from the numbered instructions point to the 'Create' button, the 'Duplicate' button, and the 'OK' button in the dialog.

2. Alternatively, select an existing project to use as a basis for a new project

3. Click here to create a new project based on the project selected

4. When prompted, enter a name for the new project and click OK

# Project navigation

1. Project opens on General tab

2. The banner shows this object's type

3. You can change the name of the project here

The interface features a top navigation bar with tabs: General, Geometry, Heating Systems, Ventilation & AC, Renewables, and Results. Below this is a 'Project details' section with a 'General' sub-section. A red banner below the sub-section is labeled 'General'. The main content area is divided into 'Dwelling Location' and 'Dwelling Configuration'. The 'Dwelling Location' section contains a form with the following fields:

Project name ⓘ	Example - Simple detached 2013
Building permit number	B/2013/1111
Address Line 1	1 Any Road
Address Line 2	
Address Line 3	
Parish	Any Town
Post Code	JE1 1AA

The 'Dwelling Configuration' section is partially visible below. To the right is a 'Navigation Tree' for 'Example - Simple detached 2013' with the following structure:

- Building Part
  - Roof/Ceiling
  - Wall
    - Wall opening 1
    - Wall opening 2
    - Wall opening 3
    - Wall opening 4
  - Floor 0
  - Floor 1
- Main Heating
- Water Heating
  - Solar Thermal
- Ventilation
- Photovoltaics
- Opening Type 1
- Opening Type 2

4. Related input fields are grouped for ease of navigation

5. Input project data in the white boxes. Data will be saved automatically

6. The navigation tree shows all the objects currently in the project and their parent/child relationships. Click on an object to view and enter details

# Add new object (1)

1. Click on these tabs for options to add new objects to the project

The screenshot shows a software interface with a navigation bar at the top containing tabs for 'General', 'Geometry', 'Heating Systems', 'Ventilation & AC', 'Renewables', and 'Results'. The 'Renewables' tab is currently selected. Below the navigation bar, the 'Project details' section is visible, with 'Renewables' as a sub-section. Underneath, there is a red bar labeled 'Renewables'. Below this, the text 'Add new:' is followed by a dashed red box containing three options: 'Solar Thermal', 'Photovoltaics', and 'Wind Turbine'. Each option has a corresponding button: 'N/A Maximum reached.' for Solar Thermal, and 'Add' for Photovoltaics and Wind Turbine. Arrows from the text boxes point to these buttons.

2. Click the appropriate Add button to add an object to the project. You will then be prompted to name the new object, which will be added to the navigation tree

3. If an object cannot be added, then the Add button will be disabled. In this example, the maximum allowed number of solar thermal systems has already been reached

# Add new object (2) & delete object

1. Click to add a new instance of this object type (a wall, in this example)

2. Then, if applicable choose which parent object to add the new object to and click confirm. You will then be prompted to name the new object, which will be added to the navigation tree

The screenshot shows a software interface with the following elements:

- Tabs:** General, Geometry, Heating Systems, Ventilation & AC, Renewables, Results.
- Section:** Project details, Geometry.
- Object Selection:** A dropdown menu shows 'Wall' selected. To its right are 'Add' and 'Delete' buttons. The 'Delete' button is disabled (grey).
- Parent Selection:** A dropdown menu shows 'Building Part' selected. To its right are 'Confirm' and 'Cancel' buttons.
- Object Details Form:** A form for a 'Wall' object with the following fields:
  - Name: Wall
  - Type: exposed
  - Construction: cavity wall filled
  - Area: 150 m<sup>2</sup>
  - Thermal transmittance (U-value): 0.13 W/m<sup>2</sup>K
  - Effective thermal capacity (kappa-m): [empty] kJ/m<sup>2</sup>K
  - Wall opening: [empty] Add

3. Click to delete the object selected. In this case, deletion of the only wall in the project is not allowed, so the button is disabled and displayed in grey

4. Where relevant, child objects can be added from the parent page

# Inputting data

## Project details Heating Systems

### Water heating

#### General

Name	<input type="text" value="Water Heating"/>
Category	<input type="text" value="Multi-point gas water heater (instantaneous ser"/>
System Type	<input type="text" value="Multi-point gas water heater (instantaneous ser"/>
Name of main heating system also providing water heating	<input type="text" value="N/A"/>
Fuel Type	<input type="text" value="mains gas"/>
Efficiency data source	<input type="text" value="from manufacturer declaration"/>
Heating efficiency	<input type="text" value="110"/> % Value fails range check.
Primary pipework insulation	<input type="text" value="N/A"/>
Immersion type	<input type="text" value="N/A"/>
Tick if heat pump assisted by immersion	<input type="checkbox"/>
Tick if immersion for summer use	<input type="checkbox"/>

1. The name of this object (displayed in navigation tree) can be changed here

2. For each input field, enter data or select option from list. It is recommended that fields are completed in the order they appear on the page

3. Inputs with only one valid option may be disabled and displayed in grey

4. Interface displays error message when data entered is invalid. Invalid data will not be saved

5. Inputs which are not applicable may be disabled and displayed in grey

# Help with inputs

1. You can also navigate between instances of an object type using the drop-down list

Geometry Heating Systems Ventilation & AC Renewables Results

Project details  
Heating Systems

Main heating

Select instance: Main Heating

General

Name: Main Heating

Category: boiler with radiators or underfloor heating

Sub Category: Gas boilers

Type: Gas (including LPG) boiler 1998 or later

Sub type: Regular condensing with automatic ignition

Fraction of heated space served by this system: 1

Data Source: from database

PCDB index number:

Heating efficiency:

Fuel type:

Tick if heat pump installed:

Microgeneration Installation Standard

Tick if appliance HETAS-approved:

Navigation Tree

Example - Simple detached 2013

- Building Part
  - Roof/Ceiling
  - Wall
    - Wall opening 1
    - Wall opening 2
    - Wall opening 3
    - Wall opening 4
  - Floor 0
  - Floor 1
- Main Heating
- Water Heating
  - Solar Thermal
- Ventilation
- Photovoltaics
- Opening Type 1
- Opening Type 2

PCDB Index Numbers Help

[Product Characteristics Database \(PCDB\)](#)

Product index number from PCDB is always six digits (with leading zeroes if necessary). Use link in menu on the right to access PCDB, search for product, and copy over its index number.

2. Hover over i symbol with mouse cursor to display help text

3. Input fields with a blue outline are required for the calculation

4. Additional help appears below the navigation tree on some pages

# Checking inputs

1. When you have finished data entry, click on the results tab

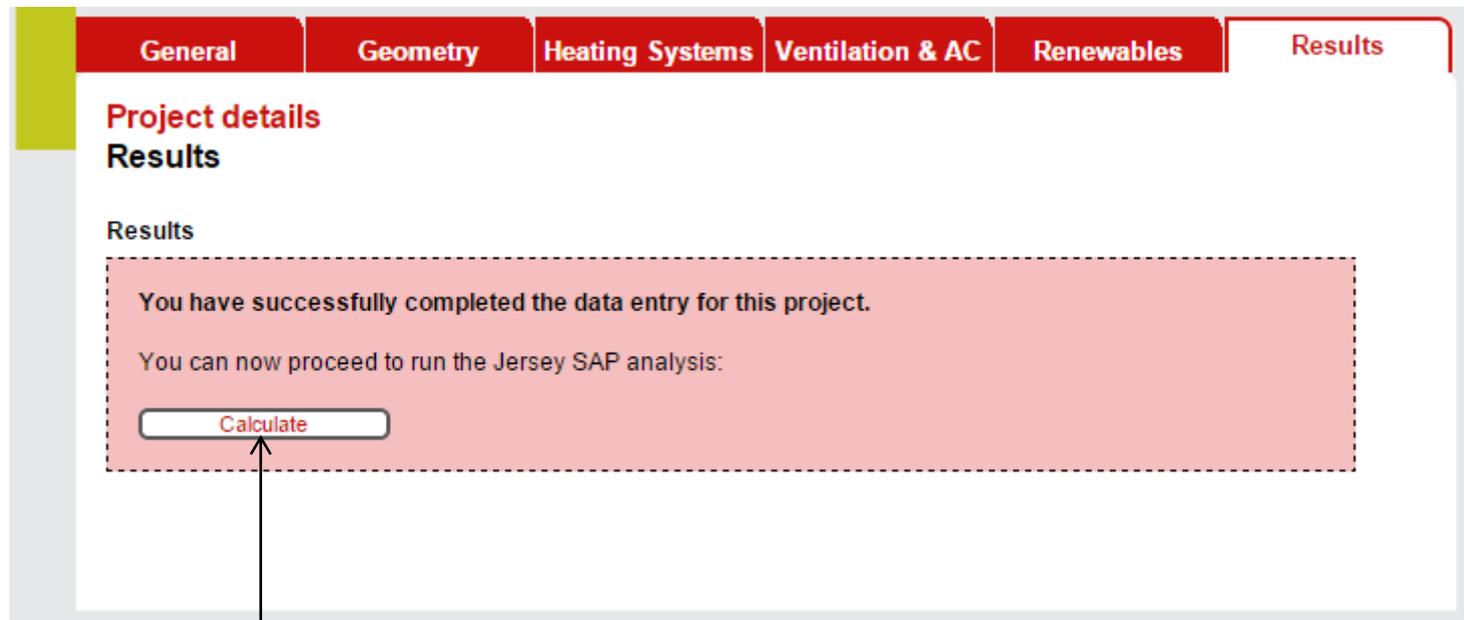
The screenshot shows a software interface with a red navigation bar at the top containing tabs for 'General', 'Geometry', 'Heating Systems', 'Ventilation & AC', 'Renewables', and 'Results'. The 'Results' tab is selected. Below the navigation bar, the text 'Project details Results' is displayed. Underneath, the word 'Results' is shown. A red dashed box highlights an error message: 'Some required fields have not been entered, or data entered is invalid. Please check inputs for the following: - Boiler-Index-Number is required (Main Heating) - Heating-Eff is required (Water Heating)'. Below the error message, there is a 'Calculate' button. Arrows from external text boxes point to the error message and the 'Calculate' button.

2. If any required fields have been left blank or conflicting data has been entered in related fields, then error messages will be displayed

3. You will not be able to run the calculation until the errors are addressed

4. The part in brackets will tell you which page(s) to check to correct the error(s)

# Calculation



When data entry has been completed correctly, you can run the calculation to produce output reports by clicking here

# Outputs

1. When the calculation has finished, use these tabs to switch between viewing the EPC, Compliance document and a summary of the data inputs

2. The results documents will be displayed in the PDF viewer

4. Click here to go back and make changes to the project

3. This shows the date on which the calculation was run

**EPC** **Compliance** **Inputs**

**Project Results**  
BRE Jersey SAP Calculator

[Back to Project details](#)

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**JERSEY ENERGY PERFORMANCE CERTIFICATE**

**Example - Simple detached 2013, 1 Any Road, Any Town, JE1 1AA**

**Dwelling type:** House - Detached      **Building Permit No.:** B/2013/1111  
**Date of assessment:** 16 Jun 2015      **Total floor area:** 100 m<sup>2</sup>  
**Type of assessment:** new dwelling

This certificate has been produced for the purposes of demonstrating compliance with the Part 11 requirements of the Building Bye-laws (Jersey). It shows this home's performance in terms of the energy used per square metre of floor area, energy efficiency based on fuel costs and environmental impact based on carbon (CO<sub>2</sub>).

**Energy Cost Rating**

Very energy efficient - lower running costs	Rating
(92+) A	
(81-91) B	
(69-80) C	
(55-68) D	
	<b>55</b>

**Environmental Impact (CO<sub>2</sub>) Rating**

Very environmentally friendly - lower CO <sub>2</sub> emissions	Rating
(92+) A	
(81-91) B	
(69-80) C	
(55-68) D	
	<b>80</b>