REC Registry guide

Small generation unit and solar water heater bulk upload

September 2022

Contents

About this guide

This guide provides advice for the creation of a bulk upload file to create small-scale technology certificates (STCs) in the REC Registry, in line with the *Renewable Energy (Electricity) Act 2000* and the Renewable Energy (Electricity) Regulations 2001.

The REC Registry is a secure internet-based registry system which facilitates the creation, registration, transfer and voluntary surrender of small-scale technology certificates (STCs).

This document provides details of the small generation unit (SGU) and solar water heater/air source heat pump (SWH/ASHP) bulk upload file specifications for the REC Registry, including information about all validations required in each column of the file. This document should only be used for small generation unit installations on or after 1 April 2022.

Included in this guide is:

- a description of the required file type, upload process and error handling process used by the REC Registry

- a data dictionary for SGUs and SWHs/ASHPs

- business rules which must be applied during the processing of bulk upload files for SGUs and SWHs/ASHPs, and

- the reference data that is required when registering SGUs and SWHs/ASHPs.

Overview

Registered agents can create multiple small generation units (small-scale solar wind, and hydro) and solar water heaters/air source heat pumps by using the bulk upload functionality.

Data specification

File type

File type	CSV
File extension	.CSV
Character set	UTF-8
Column delimiter	Comma
Text qualifier	Double quote
Header row	Required
Maximum number of records	250

Upload process

The REC Registry allows registered agents to lodge SGUs and SWHs in bulk using the bulk upload functionality within the REC Registry by logging into the REC Registry website.[1]

The steps to bulk upload small generation units are:

- Login to the REC Registry website
- Click on 'Renewable energy systems' and select 'Small generation units'
- Click on the 'Register bulk SGU' button
- Click the Choose File button under Upload S.G.U. csv file after 1April 2022
- Select the bulk upload file and then click the 'Upload' button.

The steps to bulk upload solar water heater/air source heat pumps are:

- Login to the REC Registry website
- Click on 'Renewable energy systems' and then select 'Solar water heaters/air source heat pumps'
- Click on the button 'Register bulk SWH/ASHP'
- Click the Choose File button under Upload SWH/ASHP csv file
- Select the bulk upload file and then click the 'Upload' button.

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[1] www.rec-registry.gov.au

Error handling

The validation of the bulk upload file is performed in two stages:

- Structural validation (stage-1)
  - » File structure and file type (CSV)
  - » Number of columns
  - » Number of rows
- Functional validation (stage-2)
  - » All mandatory fields are provided
  - » Correct values are provided against reference data
  - » Validations against business rules
  - » The header row matches exactly with the field name in the data dictionary

All errors encountered during the processing of the file are displayed to the user.

The bulk upload is a binary operation, i.e. either the complete bulk upload is successful or it will fail as a whole. If during the bulk upload operation an error is encountered then the user is required to correct the bulk upload file and upload it again.

Data dictionary

The data dictionary is divided into two sections:

- SGU – solar, wind and hydro fields: this table contains fields that are specific to SGU systems, and
- SWH/ASHP fields: this table contains fields that are specific to SWH and ASHP systems.

To help with the construction of the file, separate serial numbers have been used within the data dictionary tables for "solar, wind and hydro" SGUs and SWHs respectively. The serial numbers within the data dictionary represent the order of the columns within the bulk upload file.

The data dictionary uses the following typographical conventions:

- The Data type "Int" is for integers, i.e. whole numbers
- The Data type "Decimal(X,Y)" is for decimal numbers, where "X" is the total number of digits and "Y" is the number of digits to the right of the decimal place
- The Data type "Text(X)" is for character data that must have no more than "X" number characters and including white spaces. The default encoding is UTF-8. The valid sets of characters include Printable UTF-8 [32 to 126]
- The Data type "Date" is for calendar dates in the format DD/MM/YYYY
- The Data type "Select List" is for specific list of values that must exist within the defined reference data.

Data Dictionary - Small generation unit

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
1	Type of system	Select List	Yes	S.G.U. – Solar (deemed) S.G.U. – Wind (deemed) S.G.U. – Hydro (deemed)	-	-	-
2	Installation date	Date	Yes	dd/mm/yyyy	The installation date must be after 1/4/2001 and cannot be in the future The installation date for an SGU must be within the last 12 months from the date of completion This field must be left blank if a signed data package is used in the solar SGU application	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
3	Was a solar retailer involved in the procurement and installation of the system?	Select List	Yes	-			
4	System/panel brand	Select List	Yes	-	Specified system brand and model must be on the CEC approved products list at the time of installation This field must be left blank if a signed data package is used in the solar SGU application	CEC approved PV modules	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
5	System/panel model	Select List	Yes	-	For Wind and Hydro there is no list to choose from. Model numbers need to be entered manually This field must be left blank if a signed data package is used in the solar SGU application	CEC approved PV modules	-
6	Inverter manufacturer	Select List	Yes	-	-	CEC approved inverters	-
7	Inverter series	Select List	Yes	-	-	CEC approved inverters	-
8	Inverter model number	Select List	Yes	-	-	CEC approved inverters	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
9	Type of connection to the electricity grid	Select List	Yes	Connected to an electricity grid without battery storage Connected to an electricity grid with battery storage Stand-alone (not connected to an electricity grid)	-	-	-
10	System mounting type	Select List	Yes*	Building or structure Ground mounted or free standing	*Applies to solar only *Mandatory for solar	-	-
11	Is a site specific audit report available?	Select List	Yes*	Y/Yes or N/No	Applies to wind and hydro only *Mandatory for wind and hydro	-	An audit report must be provided if a non-default resource availability is used

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
12	Are you installing a complete unit (adding capacity to an existing system is not considered a complete unit)?	Select List	Yes	Y/Yes or N/No	-	-	Is the system a complete unit or additional capacity to an existing unit?
13	If this system is additional capacity to an existing system please provide detailed information on the position of the new panels and inverter (if applicable). System upgrades without a note explaining new panel locations will be failed by the Clean Energy Regulator	Text (4000)	No*	Min length of string is 7	*Mandatory if the answer is "No" to "Are you installing a complete unit (adding capacity to an existing system is not considered a complete unit)?"	-	Please provide sufficient details for CER staff to identify additional capacity in comparison to the original system. (e.g. the new system is located North of the existing system).
14	For what period would you like to create RECs	Select List	Yes	Refer to Reference data E: deeming period	-	Deeming period	How many years are you claiming STCs for?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
15	What is the rated power output (in kW) of your small generation unit	Decimal (6,3)	Yes	Input up to 3 decimal places	Solar (PV): must be greater than 0 and less than or equal to 100kW Wind: must be greater than 0 and less than or equal to 10kW Hydro: must be greater than 0 and less than or equal to 6.4kW This field must be left blank if a signed data package is used in the solar SGU application	-	Enter the rated kW output of your system

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
16	Number of panels	Int	Yes*	Min 1 and Max 1000	Applies to solar only *Mandatory for solar The number of panels must match the number of solar panel serial numbers provided This field must be left blank if a signed data package is used in the solar SGU application	-	-
17	Number of inverters	Int	Yes	Min 1 and Max 1000	The number of inverters must match the number of inverter serial numbers provided		
18	Inverter serial number(s)	Int	Yes	Multiple serial numbers – delimited by semicolons ';'. Each serial number can be up to 100 characters long. Users can enter up to 1000 serial numbers	All serial numbers provided must be unique		

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
19	Do you wish to use the default resource availability figure?	Select List	Yes*	Y/Yes or N/No	Applies to wind and hydro only *Mandatory for wind and hydro	-	The default resource availability for small-scale wind is 2000 hours per annum The default resource availability for small-scale hydro is 4000 hours per annum
20	What is your resource availability (hours per annum) for your system?	Int	Yes*	Min value: 1 and Max value: 8,760	Applies to wind and hydro only *Mandatory for wind and hydro if the answer is "No" to "Do you wish to use the default resource availability figure?"	-	Please enter the resource availability per annum You will need to provide CER with a site audit report

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
21	Equipment model serial number(s)	Text (101,000)	Yes	Multiple serial numbers – delimited by semicolons ';'. Each serial number can be up to 100 characters long. Users can enter up to 1000 serial numbers	All serial numbers provided must be unique This field must be left blank if a signed data package is used in the solar SGU application	-	Please enter the equipment model serial numbers for the system. Enter multiple serial numbers separated by semicolons ":"
22	Are you creating certificates for a system that has previously been failed by the Clean Energy Regulator?	Select List	Yes	Y/Yes or N/No	-	-	-
23	Accreditation code	Text (255)	Yes*	-	*Mandatory if the answer is "Yes" to "Are you creating certificates for a system that has previously been failed by the Clean Energy Regulator" The accreditation code provided must exist within the system	-	Please enter the accreditation code for the previously failed registration. This must be a valid accreditation code e.g. PVD0000001

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
24	Explanatory notes for re-creating certificates previously failed	Text (4000)	Yes*	-	*Mandatory if the answer is "Yes" to "Are you creating certificated for a system that has previously been failed by the Clean Energy Regulator?"	-	Please provide an explanation regarding the reason the registration had failed and what has been done to correct the issue
25	Reference	Text (255)	No	-	-	-	You can enter a word or number for your own reference purposes, e.g. to search for your small unit registrations
26	Certificate tag	Text (255)	No	-	-	-	The certificate tag will be editable after it is created and can be used to search for certificates

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
27	Designer CEC accreditation statement	Select List	Yes*	Y/Yes or N/No	*Mandatory	-	Do you have a written statement by the designer of the unit (or, if the installer of the unit is accredited for the design of the unit) stating: • The name of the designer of the unit, and • The accreditation scheme type or classification, accreditation number of the designer of the unit, and • That the designer complied with all relevant requirements of the accreditation scheme for the design of the unit

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
28	Installer CEC accreditation statement	Select List	Yes*	Y/Yes or N/No	*Mandatory		Do you have a written statement by the installer stating: • the name of the installer of the unit, and • the accreditation scheme type or classification an accreditation number of the installer and designer of the unit, and that the installer complied with all relevant requirements of the accreditation scheme for the installation of the unit

| 29 | Design and Installation of Unit Statement | Select List | Yes* | Y/Yes or N/No | *Mandatory | | Do you have a written statement by the installer of the unit stating: the installer has a copy of the design on the unit, and if the design was not modified during the installation the unit – that the unit was installed, in all material respects, in accordance with the design, and if the design was modified during the installation of the unit – that the modifications were consistent with all relevant requirements of the accreditation scheme for the design of the unit, and that the unit was installed, in all material respects, in accordance with the modified design, and that the unit will perform consistently with the design or modified design (as applicable) |

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
30	Local, State and Territory government requirements	Select List	Yes*	Y/Yes or N/No	*Mandatory	-	Do you have a written statement by the installer of the unit that all local and State or Territory government requirements have been met for the installation of the unit?
31	Electrical safety documentation	Select List	Yes*	Y/Yes or N/No	*Mandatory		Do you have a copy of any documentation required, by the law of the jurisdiction in which the unit was installed, to be provided to the owner of the unit certifying that the electrical installation of the unit complies with laws relating to safety and technical standards?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
32	Unit componentry statements	Select List	Yes*	Y/Yes or N/No	*Mandatory		Do you have a written statement by the installer of the unit stating that: • if the system uses an inverter, that the model of inverter used in the installation was, when the unit was installed, an approved eligible model of inverter; and • if the system is a grid-connected power system, that when the unit was installed, the model of inverter used in the installation complied with AS/NZS 4777.2:2020, Grid connection of energy systems via inverters, Part 2: Inverter requirements (as existing from time to time), • that the PV module used in the installation was, when the unit was installed, an approved eligible model of PV module?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
33	On-site attendance written statements	Select List	Yes*	Y/Yes or N/No	*Mandatory		Do you have a written statement by the installer of the unit that the installer was on-site to install or supervise the installation of the unit in accordance with the accreditation scheme under which the person is accredited?
34	On-site attendance evidence statements	Select List	Yes*	Y/Yes or N/No	*Mandatory		Do you have evidence from the installer of the unit that the installer was on-site to install or supervisor the installation of the unit in accordance with the accreditation scheme under which the person is accredited?
35	Not grid-connected statement	Select List	Yes*	Y/Yes or N/No	*Mandatory Must be "Yes" if the answer is "Stand alone (not connected to electricity grid)"	-	Confirm that you have a written statement that the system is not grid connected and that all work has been completed by an appropriately qualified person

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
36	True, correct and complete statement	Select List	Yes*	Y/Yes or N/No	*Mandatory		That for each statement for the purposes of small-scale technology certificate (STC) eligibility you have obtained a statement that the information in the statement is true, correct and complete.
37	Retailer CEC accreditation statement	Select List	Yes*	Y/Yes or N/No	*Applies to solar PV only *Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?		Do you have a written statement by the solar retailer stating: • the name of the installer of the unit • whether or not the installer is an employee or a subcontractor of the solar retailer?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
38	Retailer unit performance statement	Select List	Yes*	Y/Yes or N/No	*Applies to solar PV only *Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?		Do you have a written statement by the solar retailer stating: • that the unit will perform in accordance with the contract (or the quote accepted) for the sale of the unit to the owner of the unit to the owner of the unit, except to the extent that that performance is prevented by circumstances outside the solar retailer's control?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description

39	Retailer completion and connection statements	Select List	Yes*	Y/Yes or N/No	*Applies to solar PV only
					
					*Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?
							Do you have a written statement from the solar retailer stating:
							
							• the unit is
							  ○ complete, and
							  ○ generating electricity or capable of generating electricity
							• if the unit is a grid connected power system that:
							  ○ the unit is connected to the grid; or
							  ○ the solar retailer has completed the solar retailer's obligations under the contract (or the quote accepted) relating to the connection of the unit to the grid?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description

40	Retailer provision of unit information statements	Select List	Yes*	Y/Yes or N/No	*Applies to solar PV only
					
					*Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?
							Do you have a written statement from the solar retailer stating:
							
							• that the solar retailer has provided information in writing to the owner of the unit about feed in tariffs and export limits for the unit, and
							• that the solar retailer has provided information in writing to the owner of the unit about one or more of the following for the unit:
							  ○ the expected payback period
							  ○ the expected energy savings
							  ○ the expected cost saving
							• that the information provided on feed-in tariffs, export limits, expected payback period, energy and cost savings is true, complete and correct?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description

41	Retailer Conflicts of interest	Select List	Yes*	Y/Yes or N/No	*Mandatory		Do you have a written statement from the solar retailer stating:
							
							• that any actual or potential conflicts of interest of the solar retailer relating to the sale or installation of the unit, or the creation of certificates for the unit, including any conflicts of interest in relation to persons or entities related to the solar retailer, have been:
							  i. disclosed to the owner of the unit; and
							  ii. managed appropriately?

42	Retailer eligibility statement	Select List	Yes*	Y/Yes or N/No	*Applies to solar PV only *Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?		Do you have a statement from the retailer stating: • that a declaration by the Regulator that the solar retailer is ineligible to make solar retailer statements is not in effect on the day the statement is given?

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
43	Retailer True, correct and complete statement	Select List	Yes*	Y/Yes or N/No	*Applies to solar PV only *Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?		That for each statement for the purposes of small-scale technology certificate (STC) eligibility you have obtained a statement that the information in the statement is true, correct and complete
44	Installation property type	Select List	Yes	Residential School Commercial	-	-	-
45	Single or multi-story	Select List	Yes	Single story or Multi story	-	-	-
46	Installation property name, boat name or chassis number	Text (100)	No	-	-	-	You can use this field to record any descriptive name or number representing the location of the installation

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
47	Installation unit type	Select List	Yes*	Refer to unit type reference data	*Refer to the address validation rules section Must be a valid physical installation address located within Australia	Unit type	If the address begins with 2/100 Smith Street, enter "Unit" in this field and "2" in the next field
48	Installation unit number	Text (10)	Yes*	Numbers and letters can be entered e.g. 3a	*Refer to the address validation rules section Must be a valid physical installation address located within Australia	-	-
49	Installation street number	Text (15)	Yes*	Numbers and letters can be entered e.g. 3a	*Refer to the address validation rules section Must be a valid physical installation address located within Australia This field must be left blank if a signed data package is used in the solar SGU application	-	If the address is 100 Smith Street, enter "100" in this field, "Smith" in the next field and "ST" in the field after the next

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
50	Installation street name	Text (45)	Yes	-	Refer to the address validation rules section Must be a valid physical installation address located within Australia This field must be left blank if a signed data package is used in the solar SGU application	-	-
51	Installation street type	Select List	Yes	Refer to street type reference data	Refer to the address validation rules section Must be a valid physical installation address located within Australia This field must be left blank if a signed data package is used in the solar SGU application	Street type	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
52	Installation town/suburb	Text (80)	Yes	-	Refer to the address validation rules section Must be a valid physical installation address located within Australia The postcode and suburb must match This field must be left blank if a signed data package is used in the solar SGU application	-	-
53	Installation state	Text (3)	Yes	Refer to State/Territory reference data	Refer to the address validation rules section Must be a valid physical installation address located within Australia This field must be left blank if a signed data package is used in the solar SGU application	State/Territory	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
54	Installation postcode	Text (8)	Yes	Refer to postcode reference data	Refer to the address validation rules section Must be a valid physical installation address located within Australia The postcode and suburb must match This field must be left blank if a signed data package is used in the solar SGU application	Postcode	If the installation is in a remote area you must use the closest locality
55	Installation latitude	Decimal (12,9)	No	-90 to 90 Up to nine decimal places	This field must be left blank if a signed data package is used in the solar SGU application	-	GIS location
56	Installation longitude	Decimal (12,9)	No	-180' to 180' Up to nine decimal places	This field must be left blank if a signed data package is used in the solar SGU application	-	GIS location
57	Is there more than one SGU at this address?	Select List	Yes	Y/Yes or N/No	-	Yes or No	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
58	If the address entered above does not adequately describe the location of the system please provide further detailed information for the Clean Energy Regulator to locate the system	Text (4000)	Yes*	Min length of string is 7	*Mandatory if the answer is "Yes" to "Is there more than one SGU at this address?"	-	-
59	Additional system information	Text (4000)	No	-	-	-	Please provide any further system notes in this field For example: Information about multiple systems at an address or reason for recreating failed systems.
60	Owner type	Select List	Yes	Individual Corporate body Government body Trustee	-	-	-The system owner must be a legal person, More information on the definition of a legal person can be found on the CER 'Legal person defined[2]' page

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[2] http://www.cleanenergyregulator.gov.au/OSR/REC/Legal-person-defined

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
61	Owner organisation name	Text (200)	Yes*	-	*Mandatory if the answer is "Government body, Corporate body, trustee" to "owner type"	-	-
62	Owner First Name	Text (100)	Yes*	-	*Mandatory if the answer is "Individual" to "Owner Type". If "owner type is not individual must be blank.	-	-
63	Owner Surname	Text (100)	Yes*	-	*Mandatory if the answer is "Individual" to "Owner type". If "owner type is not individual must be blank.	-	-
64	Owner phone	Text (16)	Yes	Min length: 6 Must only contain digits [0-9] Can have an option + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+) Examples: 131313 1800123123 +61321321321

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
65	Owner fax	Text (16)	No	Min length: 6 Must only contain digits [0-9] Can have an optional + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)
66	Owner mobile	Text (16)	No	Min length: 6 Must only contain digits [0-9] Can have an optional + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)
67	Owner email	Text (255)	No	Valid email format	-	-	Examples of valid email address formats: name@domain.com name@domain.com.au
68	Owner address type	Select List	Yes	Physical or Postal	-	-	-
69	Owner postal delivery type	Select List	Yes*	-	* Mandatory if the answer is "Postal" for owner postal delivery type	Postal delivery type	The postal address can be anywhere in the world For post office boxes, enter "PO Box" in this field

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
70	Owner postal delivery number	Text (11)	Yes*	-	*Refer to the address validation rules section	-	For post office boxes, enter the post office box number in this field

If the owner's address is a postal address, enter the postal delivery number |
71	Owner unit type	Select list	Yes*	Refer to unit type reference data	*Refer to the address validation rules section	Unit type	If the address begins with 2/100 Smith Street, enter "Unit" in this field and "2" in the next field
72	Owner unit number	Text (10)	Yes*	-	*Refer to the address validation rules section	-	If the address is 100 Smith Street, enter "100" in this field, "Smith" in the next field and "ST" in the field after the next
73	Owner street number	Text (15)	Yes	Numbers and letters can be entered e.g. 3a	Refer to the address validation rules section	-	-
74	Owner street name	Text (45)	Yes	-	Refer to the address validation rules section	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
75	Owner street type	Select List	Yes	Refer to street type reference data	Refer to the address validation rules section	Street type	-
76	Owner town/suburb	Text (80)	Yes	-	Refer to the address validation rules section	-	-
77	Owner state	Text (3)	Yes	Refer to State/Territory reference data	Refer to the address validation rules section	State/Territory	State does not need to be entered if the address is not Australian
78	Owner postcode	Text (8)	Yes*	Refer to postcode reference data	*Refer to the address validation rules section	Postcode	-
79	Owner country	Select List	Yes	Refer to country reference data	Refer to the address validation rules section	Country	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
80	Installer first name	Text (100)	Yes	-	The installer first name must match the name with which the installer received their CEC accreditation This field must be left blank if a signed data package is used in the solar SGU application	-	-
81	Installer surname	Text (100)	Yes	-	The installer last name must match the name with which the installer received their CEC accreditation This field must be left blank if a signed data package is used in the solar SGU application	-	-

82	CEC accredited installer number	Text (100)	Yes	Grid connected CEC installer Stand-alone CEC installer	The installer accreditation number must be a CEC accredited number and the system must be installed within the period of accreditation The installer number must be for an accredited CEC installer with the appropriate grid connection qualification i.e. if answered "Stand-alone (not connected to electricity grid)" to "Type of connection to the electricity grid", the installer must have off-grid accreditation This field must be left blank if a signed data package is used in the solar SGU application	-	The number entered must exactly match the number in the CEC list and match the name of the installer that was entered
83	Installer phone	Text (16)	Yes	Min length: 6 Must only contain digits [0-9]	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
				Can have an optional + at the start			Examples: 131313 1800123123 +61321321321
84	Installer fax	Text (16)	No	Min length: 6 Must only contain digits [0-9] Can have an optional + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)
85	Installer mobile	Text (16)	No	Min length: 6 Must only contain digits [0-9] Can have an optional + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)
86	Installer email	Text (255)	No	Valid email format	-	-	Examples of valid email address formats: name@domain.com name@domain.com.au

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
87	Installer address type	Select List	Yes	Physical or Postal	-	-	-
88	Installer postal delivery type	Select List	Yes*	-	* Mandatory if the answer is "Postal"	Postal delivery type	For post office boxes, enter "PO Box" in this field
89	Installer postal delivery number	Text (11)	Yes*	-	*Refer to the address validation rules section Must be a valid post office box number	-	For post office boxes, enter the post office box number in this field If the installer's address is a postal address, enter the postal delivery number
90	Installer unit type	Select list	Yes*	Refer to unit type reference data	*Refer to the address validation rules section Must be a valid address located within Australia	Unit type	If the address begins with 2/100 Smith Street, enter "Unit" in this field and "2" in the next field
91	Installer unit number	Text (10)	Yes*	-	*Refer to the address validation rules section Must be a valid address located within Australia	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
92	Installer street number	Text (15)	Yes*	Numbers and letters can be entered e.g. 3a	*Refer to the address validation rules section Must be a valid address located within Australia	-	If the address is 100 Smith Street, enter "100" in this field, "Smith" in the next field and "ST" in the field after the next
93	Installer street name	Text (45)	Yes	-	Refer to the address validation rules section Must be a valid address located within Australia	-	-
94	Installer street type	Select List	Yes	Refer to street type reference data	Refer to the address validation rules section Must be a valid address located within Australia	Street type	-
95	Installer town/suburb	Text (80)	Yes	-	Refer to the address validation rules section Must be a valid address located within Australia The postcode and suburb must match	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
96	Installer state	Text (3)	Yes	Refer to State/Territory reference data	Refer to the address validation rules section Must be a valid address located within Australia	State/Territory	-
97	Installer postcode	Text (8)	Yes	Refer to postcode reference data	Refer to the address validation rules section Must be a valid address located within Australia The postcode and suburb must match	Postcode	If the installation is in a remote area you must use the closest locality
98	Electrician first name	Text (100)	Yes	-	-	-	-
99	Electrician surname	Text (100)	Yes	-	-	-	-
100	Licensed electrician number	Text (100)	Yes	-	-	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
101	Electrician phone	Text (16)	Yes	Min length: 6 Must only contain digits [0-9] Can have an optional + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+) Examples: 131313 1800123123 +61321321321
102	Electrician fax	Text (16)	No	Min length: 6 Must only contain digits [0-9] Can have an optional + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)
103	Electrician mobile	Text (16)	No	Min length: 6 Must only contain digits [0-9] Can have an optional + at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
104	Electrician email	Text (255)	No	Valid email format	-	-	Examples of valid email address formats: name@domain.com name@domain.com.au
105	Electrician address type	Select List	Yes	Physical or Postal	-	-	-
106	Electrician postal delivery type	Select List	Yes*	-	* Mandatory if the answer is "Postal"	Postal delivery type	For post office boxes, enter "PO Box" in this field
107	Electrician postal delivery number	Text (11)	Yes*	-	*Refer to the address validation rules section	-	For post office boxes, enter the post office box number in this field If the electrician's address is a postal address, enter the postal delivery number
108	Electrician unit type	Select List	Yes*	Refer to unit type reference data	*Refer to the address validation rules section Must be a valid address located within Australia	Unit type	If the address begins with 2/100 Smith Street, enter "Unit" in this field and "2" in the next field

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
109	Electrician unit number	Text (10)	Yes*	Numbers and letters can be entered e.g. 3a	*Refer to the address validation rules section Must be a valid address located within Australia	-	-
110	Electrician street number	Text (15)	Yes*	Numbers and letters can be entered e.g. 3a	*Refer to the address validation rules section Must be a valid address located within Australia	-	If the address is 100 Smith Street, enter "100" in this field, "Smith" in the next field and "ST" in the field after the next
111	Electrician street name	Text (45)	Yes	-	Refer to the address validation rules section Must be a valid address located within Australia	-	-
112	Electrician street type	Select List	Yes	Refer to street type reference data	Refer to the address validation rules section Must be a valid address located within Australia	Street type	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
113	Electrician town/suburb	Text (80)	Yes	-	Refer to the address validation rules section Must be a valid address located within Australia. The postcode and suburb must match	-	-
114	Electrician state	Text (3)	Yes	Refer to State/Territory reference data	Refer to the address validation rules section Must be a valid address located within Australia	State/Territory	-
115	Electrician postcode	Text (8)	Yes	Refer to postcode reference data	Refer to the address validation rules section Must be a valid address located within Australia. The postcode and suburb must match	Postcode	-
116	Designer first name	Text (100)	Yes	-	The first name must match the name with which the installer received their CEC accreditation	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
117	Designer surname	Text (100)	Yes	-	The last name must match the name with which the installer received their CEC accreditation	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
118	CEC accredited designer number	Text (100)	Yes	Grid connected CEC designer Stand-alone CEC designer	The designer number must be a CEC accredited designer number and the system must be installed within the period of accreditation The designer number must be for an accredited CEC designer with the appropriate grid connection qualification I.e. if answered "Stand-alone (not connected to electricity grid)" to "Type of connection to the electricity grid", the designer must have off-grid design accreditation.	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
119	Designer phone	Text (16)	Yes	Min length: 6 Must only contains digits [0-9] Can have an optional '+' at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+) Examples: 131313 1800123123 +61321321321
120	Designer fax	Text (16)	No	Min length: 6 Must only contains digits [0-9] Can have an optional '+' at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)
121	Designer mobile	Text (16)	No	Min length: 6 Must only contains digits [0-9] Can have an optional '+' at the start	-	-	Numbers must be between 6 and 16 digits in length and can be preceded by a plus symbol (+)

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
122	Designer email	Text (255)	No	Valid email format	-	-	Examples of valid email address formats: name@domain.com name@domain.com.au
123	Designer address type	Select List	Yes	Physical or Postal			-
124	Designer postal delivery type	Select List	Yes*	-	* Mandatory if the answer is "Postal"	Postal delivery type	For post office boxes, enter "PO Box" in this field
125	Designer postal delivery number	Text 911)	Yes*	-	*Refer to the address validation rules section Must be a valid post office box number	-	For post office boxes, enter the post office box number in this field If the designer's address is a postal address, enter the postal delivery number
126	Designer unit type	Select List	Yes*	Refer to unit type reference data	*Refer to the address validation rules section Must be a valid address located within Australia	Unit type	If the address begins with 2/100 Smith Street, enter "Unit" in this field and "2" in the next field

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
127	Designer unit number	Text (10)	Yes*	Numbers and letters can be entered e.g. 3a	*Refer to the address validation rules section Must be a valid address located within Australia	-	-
128	Designer street number	Text (15)	Yes*	Numbers and letters can be entered e.g. 3a	*Refer to the address validation rules section Must be a valid address located within Australia	-	If the address is 100 Smith Street, enter "100" in this field, "Smith" in the next field and "ST" in the field after the next
129	Designer street name	Text (45)	Yes	-	Refer to the address validation rules section Must be a valid address located within Australia	-	-
130	Designer street type	Select List	Yes	Refer to street type reference data	Refer to the address validation rules section Must be a valid address located within Australia	Street type	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
131	Designer town/suburb	Text (80)	Yes	-	Refer to the address validation rules section Must be a valid address located within Australia The postcode and suburb must match	-	-
132	Designer state	Text (3)	Yes	Refer to State/Territory reference data	Refer to the address validation rules section Must be a valid address located within Australia	State/Territory	-
133	Designer postcode	Text (8)	Yes	Refer to postcode reference data	Refer to the address validation rules section Must be a valid address located within Australia The postcode and suburb must match	Postcode	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
134	Retailer name	Text (255)	Yes*	-	*Applies to solar PV only *Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system? This field must be left blank if a signed data package is used in the solar SGU application	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
135	Retailer ABN	Text (80)	Yes*	Must only contain digits [0-9] Must be blank is value of 'Retailer name' column is 'owner' ABN is validated against the Retailer Entity name (as listed on the ABR website - ABN Lookup (business.gov.au) and checks that the ABN is Active at the time of the installation. Business or trading names are not valid.	*Applies to solar PV only *Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system? This field must be left blank if a signed data package is used in the solar SGU application	-	
136	Retailer representative	Text (255)	Yes*	-	*Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?		

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
137	Retailer role	Text (255)	Yes*	-	*Mandatory if the answer is "Yes" to Was a solar retailer involved in the procurement and installation of the system?		
138	National metering identifier (NMI)	Text (11)	No	Must only contain 10 or 11 characters	Applies to solar PV only	-	-
139	Battery storage manufacturer	Text (500)	No	Refer to Manufacturer reference data	Applies to solar PV only	Manufacturer	-
140	Battery storage model	Text (500)	No	Refer to battery storage reference data	Applies to solar PV only	Model number	-
141	Is the battery system part of an aggregated control?	Select List	No	Y/Yes or N/No	Applies to solar PV only	-	-
142	Has the installer changed default manufacturer setting of the battery storage system?	Select List	No	Y/Yes or N/No	Applies to solar PV only	-	-

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
143	Signed data package	Text (80)	No	Check that associated zip file of signed data packages contains one and only one file with a name that matches the corresponding application	Applies to solar PV only	-	'Signed date package' is only relevant to participants in the Solar Panel Validation initiative.[3] Please disregard this row and leave it blank if the installation is not verified through a participating app. If you participate in the Solar Panel Validation Initiative, please refer to reference data F for data that forms part of the signed data package.
144	Documents Zip File	Text (200)	No	File name must match the name of the .zip file being uploaded	Applies to all fuel sources – SGU and SWH File size cannot exceed 10mb Documents cannot be altered or deleted once uploaded	-	Used to upload documents at the time of creation This field must be inserted even if it is not used to proceed with STC creation

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[3] http://www.cleanenergyregulator.gov.au/RET/Scheme-participants-and-industry/Solar-Panel-Validation-initiative

# SGU (Order of column)	Field Name	Data Type	Mandatory	Validation rules	Business rules (refer to business rule section)	Reference data (refer to reference data section)	Description
145	Installation Type	Select List	Yes	New system Replacement system Extension system Additional system	-	-	-
146	Installation Type Additional Information	Text (4000)	No*	Min length of string is 7	*Mandatory if the answer is "Extension system" or "Additional system" to "Type of Installation"	-	Please provide sufficient details for CER staff to identify additional capacity in comparison to the original system (e.g. the new system is located North of the existing system) – note this information should match the information in column twelve.

Data Dictionary – Solar water heater/Air source heat pump

#SWH (Order of column)	Field name	Data type	Mandatory	Validation rules	Business rules (refer to business rules sections)	Reference data (refer to reference data section)	Description
1	System Brand	Select List	Yes	-	-	Register of solar water heaters	-
2	System model	Select List	Yes	-	-	Register of solar water heaters	-
3	Tank serial numbers (s)	Text (101,000)	Yes	Multiple serial numbers delimited by semicolons – ';'. Each serial number can be up to 100 characters long User can enter up to 1000 serial numbers.	Serial number	-	-
4	Number of panels	Int	Yes	Min 0 and Max 1000	Number of panels	-	For evacuated tubes enter the number of tubes, for air source heat pumps enter zero
5	Installation date	Date	Yes	-	SWH creation rule	-	-

6	Installation type	Select List	Yes	-	-	SWH Installation type	-
7	Is the volumetric capacity of this installation greater than 700L	Select List	Yes	-	-	Yes or No	-
8	Statutory declarations sent	Select List	Yes (if previous question is answered 'Yes')	This question should be answered 'Yes' if question 7 is answered 'Yes'	-	Yes or No	-
9	Is your water heater second hand?	Select List	Yes	-	Yes or No	-	-
10	Reference	Text (255)	No	-	-	-	A reference is an attribute you can use to search for your small unit registrations
11	Certificate tag	Text (255)	No	-	-	-	Use certificate tags to identify certificates when search and completing other REC Registry transactions

12	Installation property type	Select List	Yes	Residential School Commercial	-	-	-
13	Installation single or multi story	Select List	Yes	Single story or Multi story	-	-	-
14	Installation property name or boat name or chassis number	Text (100)	No	-	-	-	You can use this field to record any descriptive name or number representing the location of the installation.
15	Installation unit type	Select List	No*	-	Valid installation address	Unit type	Must be a valid physical address located within Australia
16	Installation unit number	Text (10)	No*	-	Valid installation address	-	-
17	Installation street number	Text (15)	No*	-	Valid installation address	-	-
18	Installation street name	Text (45)	Yes	-	Valid installation address	-	-
19	Installation street type	Select List	Yes	-	Valid installation address	Street type	-

20	Installation town/suburb	Text (80)	Yes	-	Valid installation address	-	-
21	Installation state	Text (3)	Yes	-	Valid installation address	State	-
22	Installation postcode	Text (8)	Yes	-	Valid installation address	Postcode	-
23	Installation latitude	Decimal (3,9)	No	-90 to 90	-	-	-
24	Installation longitude	Decimal (3,9)	No	-180' to 180'	-	-	-
25	Is there more than one SWH/ASHP at this address?	Select List	Yes	-	-	Yes or No	-
26	Additional system information	Text (4000)	No*	*Mandatory if answered "yes" to "Is there more than one SWH/ASHP at this address?"	-	-	-
27	Creating certificates for previously failed SWH	Select List	Yes	-	-	Yes or No	-

28	Failed accreditation code	Text (255)	Yes (if previous question is answered Yes)	-	Accreditation code	-	-
29	Explanatory notes for failed accreditation code	Text (4000)	Yes (is the previous question is answered Yes)	-	-	-	-
30	Installation special address	Text (4000)	No	Min length of string is 7	-	-	-
31	Owner type	Select List	Yes	-	-	Owner type	-
32	Owner organisation name	Text 9200)	No	Mandatory if answered "Government body, Corporate body, Trustee" to "Owner type"	-	-	-
32a	Owner first name	Text (100)	No	Mandatory if answered "Individual" to "Owner type	-	-	-

32b	Owner surname	Text (100)	No	Mandatory if answered "Individual" to "Owner type	-	-	-
33	Owner phone	Text (16)	Yes	Min: 6 Must only contains digits [0-9] Can have an optional '+' at the start.	-	-	-
34	Owner fax	Text (16)	No	Min: 6 Must only contains digits [0-9] Can have an optional '+' at the start.	-	-	-
35	Owner mobile	Text (16)	No	Min: 6 Must only contains digits [0-9] Can have an optional '+' at the start.	-	-	-
36	Owner email	Text (255)	Yes	Valid email format	-	-	-
37	Owner address type	Select List	Yes	-	Valid owner address	Address type	Valid physical or postal address anywhere in the world
38	Owner postal delivery type	Select List	No*	-	Valid owner address	Postal delivery type	-

39	Owner postal delivery number	Text (11)	No*	-	Valid owner address	-	-
40	Owner unit type	Select List	No*	-	Valid owner address	Unit type	-
41	Owner unit number	Text (10)	No*	-	Valid owner address	-	-
42	Owner street number	Text (15)	No*	-	Valid owner address	-	-
43	Owner street name	Text (45)	Yes	-	Valid owner address	-	-
44	Owner street type	Select List	Yes	-	Valid owner address	Street type	-
45	Owner town/suburb	Text (80)	Yes	-	Valid owner address	-	-

46	Owner state	Text (3)	Yes	-	Valid owner address	State	-
47	Owner postcode	Text (8)	Yes	-	Valid owner address	Postcode	-
48	Owner country	Select List	Yes	-	Valid owner address	Country	-
49	Installer first name	Text (100)	Yes	-	-	-	-
50	Installer surname	Text (100)	Yes	-	-	-	-
51	Installer phone	Text (16)	Yes	Min: 6 Must only contains digits [0-9] Can have an optional '+' at the start.	-	-	-
52	Installer fax	Text (16)	No	Min: 6 Must only contains digits [0-9] Can have an optional '+' at the start.	-	-	-

53	Installer mobile	Text (16)	No	Min: 6 Must only contains digits [0-9] Can have an optional '+' at the start.	-	-	-
54	Installer email	Text (255)	No	Valid email format	-	-	-
55	Installer address type	Select list	Yes	-	Valid installer address	Address type	Must be a valid physical address located within Australia
56	Installer postal delivery type	Select List	No*	-	Valid installer address	Postal address type	-
57	Installer postal delivery number	Text (11)	No*	-	Valid installer address	-	-
58	Installer unit type	Select List	No*	-	Valid installer address	Unit type	-
59	Installer unit number	Text (10)	No*	-	Valid installer address	-	-

60	Installer street number	Text (15)	No*	-	Valid installer address	-	-
61	Installer street name	Text (45)	Yes	-	Valid installer address	-	-
62	Installer street type	Select List	Yes	-	Valid installer address	Street type	-
63	Installer town/suburb	Text (80)	Yes	-	Valid installer address	-	-
64	Installer state	Text (3)	Yes	-	Valid installer address	State	-
65	Installer postcode	Text (8)	Yes	-	Valid installer address	Postcode	-

Business rules

Below are general rules that apply to all bulk upload operations.

- All values specified are treated in a case insensitive manner.
- The bulk upload is an atomic operation, i.e. either the complete bulk upload is successful or it will fail as a whole.

Business rules A: General

Rule name	Rule
Minimum Certificate	SGU registrations and SWH/ASHP registrations must be eligible for at least one certificate
SGU creation	Certificates must be created within 12 months of the installation date
SWH creation	Certificates must be created within 12 months of the installation date
PV Module	The SGU installation date must fall on or between the 'CEC approved date' and 'Expiry date' for the specified PV brand and module
CEC Inverter	The SGU installation date must fall on or between the 'Approval date' and 'Expiry date' for the specified inverter manufacturer, series and model number
Deeming Periods	Solar PV can be deemed for 14 years for systems installed from 1 January 2017 to 31 December 2017. This will reduce every year Wind and hydro systems can only be registered for one and five year deeming periods SGUs can only be registered for the remainder of the RET scheme. For further information on valid deeming periods please refer to the deeming period section
Grid connected CEC installer	If the SGU system is grid connected, the installer specified must be accredited to install grid connected SGUs
Grid connected CEC designer	If the SGU system is grid connected, the designer specified must be accredited to design grid connected SGUs
Stand-alone CEC installer	If the SGU system is stand-alone, the installer specified must be accredited to install stand-alone SGUs

Stand-alone CEC designer	If the SGU system is stand-alone, the designer specified must be accredited to design stand-alone SGUs
Rated power output	Solar: must be greater than 0 and less than or equal to 100kW Wind: must be greater than 0 and less than or equal to 10kW Hydro: must be greater than 0 and less than or equal to 6.4kW
Number of panels	If the number of panels is less than or equal to 1000, then they must match with the number of solar panel serial numbers
Accreditation code	The installer accreditation code provided must be valid at the time of installation
Serial number	All serial numbers provided must be unique
Valid installation address	The installation postcode and suburb must be a valid match according to the Postcode/suburb map reference data The installation address must be an Australian valid physical address in line with the address validation rules section
Valid owner address	If the owner address is in Australia, the owner postcode and suburb must be a valid match according to the Postcode/suburb map reference data The owner address in Australia must be a valid physical or postal address in line with the address validation rules section
Valid installer address	The installer postcode and suburb must be a valid match according to the Postcode/suburb map reference data The owner address must be a valid Australian physical or postal address in line with the address validation rules section
Valid electrician address	The electrician postcode and suburb must be a valid match according to the Postcode/suburb map reference data The electrician address must be a valid Australian physical or postal address in line with the address validation rules section
Valid designer address	The designer postcode and suburb must be a valid match according to the Postcode/suburb map reference data The designer address must be a valid Australian physical or postal address in line with the address validation rules section

Business rules B: Address validation rules

The following table defines the validation rules that will be applied in the following circumstances:

- For the installation address, if there are more than 7 characters in the additional address information field when registering an SGU or SWH

Address Type	Unit Type	Unit No.	Street No.	Street Name	Street Type	Town/Suburb	State	Postcode	Special Address	Other Rules
Physical	-	-	-	-	-	X	X	X	X	Special Address >=7 chars
Physical	-	-	-	X	X	X	X	X	X	Special Address >=7 chars
Physical	-	-	X	X	X	X	X	X	X	Special Address >=7 chars
Physical	X	X	-	X	X	X	X	X	X	Special Address >=7 chars
Physical	X	X	X	X	X	X	X	X	X	Special Address >=7 chars

The following table defines the address validation rules that will apply in the following circumstances:

- If there are less than 7 characters in the additional address information field of the installation address when registering an SGU or SWH
- If the owner address is different to installation address
- If the address is the installer address
- If the address is the electrician address
- If the address is the designer address

Note that an international address, where the country is "other", can only be used for the owner address details.

Address type	Postal Delivery type	Postal Delivery No.	Unit type	Unit No.	Street No.	Street Name	Street type	Town/Suburb	State	Postcode	Country
Physical	-	-	-	-	X	X	X	X	X	X	Aus.
Physical	-	-	X	X	-	X	X	X	X	X	Aus.
Physical	-	-	X	X	X	X	X	X	X	X	Aus.
Physical	-	-	-	-	X	X	X	X	-	X	Other
Physical	-	-	X	X	-	X	X	X	-	X	Other
Postal	X	X	-	-	-	-	-	X	X	X	Aus.
Postal	X	X	-	-	-	-	-	X	-	X	Other

Reference data

Reference data A: General

Yes or No

Yes or No
Yes
Y
No
N

SGU System mounting type

SGU System mounting type
Building or structure
Ground mounted or free standing

SWH Installation type

SWH installation type
New building
Replaced electric heater
Replaced solar water heater
First solar water heater at existing building
Replace gas water heater
Other

SGU Installation type

SGU Installation type
New system
Replacement system
Extension system
Additional system

Property type

Property type
Residential
School
Commercial

Single or multi story

Single or multi story
Single story
Multi story

Owner type

Owner Type
Individual
Government body
Corporate body
Trustee

Reference data B: Approved modules

CEC approved PV modules

For a full list of Clean Energy Council approved PV modules visit the [CEC approved PV modules](#)[4] page on the Clean Energy Regulator website.

CEC approved inverters

For a full list of Clean Energy Council approved inverters visit the [CEC approved inverters](#)[5] page on the Clean Energy Regulator website.

Register of solar water heaters

For a full list of eligible solar water heater and air source heat pump water heaters on the Register of solar water heaters visit the [Register of solar water heaters](#)[6] page on the Clean Energy Regulator website.

Reference data C: Battery storage

Manufacturer	Model Number
Ampetus	Super Lithium
SOLTARO	1 KWH
NESS	3048S
Gridedge	48TL120
Gridedge	48TL120
Gridedge	48TL160
Gridedge	48TL200
Gridedge	48TL80
Secura	5 PVV 550
NESS	5048S
Hoppecke	7 sun	power VR L 620

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[4] http://www.cleanenergyregulator.gov.au/DocumentAssets/Pages/CEC-approved-PV-modules.aspx
[5] http://www.cleanenergyregulator.gov.au/DocumentAssets/Pages/CEC-approved-inverters.aspx
[6] http://www.cleanenergyregulator.gov.au/RET/Scheme-participants-and-industry/Agents-and-installers/Small-scale-systems-eligible-for-certificates/Register-of-solar-water-heaters

Enphase	AC Battery
Hansol	AIO 10.8
Samsung	AIO 3.6
Hansol	AIO 7.2
Samsung	AIO Scaleable 10.8
Samsung	AIO Scaleable 7.2
Leclanche	ApollionCube 15S
Aquion Energy	Aspen 24S-83
Aquion Energy	Aspen 48M-25.9
Aquion Energy	Aspen 48S-2.2
Hitachi	AVRLA LL1500AS8
BYD	B-Box LV Professional 10.0
BYD	B-Box LV Professional 12.8
BYD	B-Box LV Professional 2.5
BYD	B-Box LV Professional 5.0
BYD	B-Box LV Professional 7.5
BYD	B-Box LV Residential 5.0
BYD	B-Box LV Residential 10.0
BYD	B-Box LV Residential 2.5
BYD	B-Box LV Residential 7.5
BYD	B-Box-H5
BYD	B-Box-H6
BYD	B-Box-H7

BYD	B-Box-H8
BYD	B-Box-H9
Bosch	BPT-S 5 Hybrid 11.00
Bosch	BPT-S 5 Hybrid 13.20
Bosch	BPT-S 5 Hybrid 4.40
Bosch	BPT-S 5 Hybrid 6.60
Bosch	BPT-S 5 Hybrid 8.80
GIANT POWER	DC-2V-1025AH
GIANT POWER	DC-2V-1250AH
GIANT POWER	DC-2V-450AH
GIANT POWER	DC-2V-790AH
GIANT POWER	DCP-48V4-230AH
GIANT POWER	DCP-48V4-280AH
GIANT POWER	DCP-48V8-410AH
GIANT POWER	DCP-48V8-450AH-6V
GIANT POWER	DCP-48V8-520AH
GIANT POWER	DCP-REXC-48V24-1200AH
GIANT POWER	DCP-REXC-48V24-1440AH
GIANT POWER	DCP-REXC-48V24-1800AH
GIANT POWER	DCP-REXC-48V24-2400AH
GIANT POWER	DCP-REXC-48V24-240AH
GIANT POWER	DCP-REXC-48V24-360AH
ELMOFO	E-Cells ALB26-106

ELMOFO	E-Cells ALB26-80
ELMOFO	E-Cells ALB52-106
ELMOFO	E-Cells ALB52-80
GCL	E-KwBe 5.6
Sonnen	eco 8.10
Sonnen	eco 8.12
Sonnen	eco 8.14
Sonnen	eco 8.16
Sonnen	eco 8.2
Sonnen	eco 8.4
Sonnen	eco 8.6
Sonnen	eco 8.8
Victron energy	ECOmulti
LG Chem	EM048063P3Sx
LG Chem	EM048126P3Sx
Ampetus	Energy Pod
Mercedes-Benz	Energy Storage Home
Sony Fortelion	Energy Storage Module - IJ1001M
OutBack	EnergyCell 106NC (top terminal)
OutBack	EnergyCell 200NC (front terminal)
IQ System	EP-10KWH8KW
Imergy Power Systems	ESP5
BMZ	ESS 3.0

BMZ	ESS 7.0
PowerOak	ESS Hybrid PS8030B
HNE	eTank 14
HNE	eTank 7
Pylontech	Ex 2000
CellCube	FB 10-100
CellCube	FB 20-100
CellCube	FB 250-1000
CellCube	FB 30-100
FCP	FCP-1000
FCP	FCP-500
ZEN Freedom PowerBank	FPB12.8
ZEN Freedom PowerBank	FPB16
ZEN Freedom PowerBank	FPB19.2
MagellanPower	HESS
Hybrid	Home 4.8
Hybrid	Home 8.2
Delta	Hybrid E5
Hybrid	Leisure 2.4
Hybrid	Leisure 2.7
genZ	LFP Capacity Storage 12V
genZ	LFP Capacity Storage 24V
genZ	LFP Capacity Storage 48V

genZ	LFP Smart Powerpack
Panasonic	LJ-SK56A
Panasonic	LJ-SK84A
Redflow	LSB
BYD	MINIES-P30B3-AU-R2
SOLARWATT	MyReserve 500
SOLARWATT	MyReserve Command 20.2
AKASOL	neeoQube
AKASOL	neeoSystem Type 1
AKASOL	neeoSystem Type 2
AKASOL	neeoSystem Type 3
AKASOL	neeoSystem Type 4
AKASOL	neeoSystem Type 5
Simpliphi	PHI 2.6
Simpliphi	PHI 3.4
Phono Solar	Phonocube 7.2
Enopte	Power Block EN-5160-CFP
Heter	Power Box
Trinabest	PowerCube 2.0
Trinabest	PowerCube mini
AU Optronics	PowerLegato
Tesla	Powerwall
Tesla	Powerwall 2

DCS	PV 5.0W
Gridedge	Quantum GEFM120
Gridedge	Quantum GEFM200
Gridedge	Quantum GEFM400
Gridedge	Quantum GEFM80
genZ	Rack Mount 48V LFP 2kWh
genZ	Rack Mount 48V LFP 3kWh
ABB	REACT-3.6-TL
LG Chem	RESU10
LG Chem	RESU10H
LG Chem	RESU3.3
LG Chem	RESU6.4 EX
LG Chem	RESU6.5
LG Chem	RESU7H
Narada	REXC pack 12.0
Narada	REXC pack 13.6
Sungrow	SBP4K8
SENEC.IES	SENEC.Home Li 10.0
SENEC.IES	SENEC.Home Li 2.5
SENEC.IES	SENEC.Home Li 5.0
SENEC.IES	SENEC.Home Li 7.5
Sonnenschein	SHL48V
Sunverge	SIS 11.64

Sunverge	SIS 19.4
Sentry	SL12V120
Redback	Smart Hybrid
FIAMM	SMG/S 1150 Solar OPzV
FIAMM	SMG/S 1440 Solar OPzV
FIAMM	SMG/S 1720 Solar OPzV
FIAMM	SMG/S 2000 Solar OPzV
FIAMM	SMG/S 2600 Solar OPzV
FIAMM	SMG/S 265 Solar OPzV
FIAMM	SMG/S 330 Solar OPzV
FIAMM	SMG/S 3300 Solar OPzV
FIAMM	SMG/S 3900 Solar OPzV
FIAMM	SMG/S 400 Solar OPzV
FIAMM	SMG/S 460 Solar OPzV
FIAMM	SMG/S 570 Solar OPzV
FIAMM	SMG/S 660 Solar OPzV
FIAMM	SMG/S 860 Solar OPzV
Fronius	Solar Battery 10.5
Fronius	Solar Battery 12.0
Fronius	Solar Battery 4.5
Fronius	Solar Battery 6.0
Fronius	Solar Battery 7.5
Fronius	Solar Battery 9.0

Sonnenschein	SOLAR BLOCK 6/330
Solax	SOLAXBOX
StoraXe	SRS0009
StoraXe	SRS2019
StoraXe	SRS2028
Alpha ESS	Storion -ECO S5 (M48100)
Alpha ESS	Storion -ECO S5 (M48112-P)
Alpha ESS	Storion -ECO S5 (M4860)
Alpha ESS	Storion OF5 (M48100)
Alpha ESS	Storion OF5 (M48112-P)
Alpha ESS	Storion OF5 (M4860)
Alpha ESS	Storion-S5
Leclanche	TiBox
Fusion Power Systems	Titan 3
Hybrid	Tower 14.4
Hybrid	Tower 19.2
Hybrid	Tower 28.8
Hybrid	Tower 9.6
TESVOLT	TS 25
TESVOLT	TS 40
TESVOLT	TS 50
Ecoult	UltraFlex
Pylontech	US2000B

AllGrid Energy	WattGrid SH4600
Redflow	ZBM2
Redflow	Zcell

Reference data D: Address details

Postal delivery type

Postal delivery type	Code
CARE-OF POST OFFICE	CARE PO
COMMUNITY MAIL AGENT	CMA
COMMUNITY MAIL BAG	CMB
GENERAL POST OFFICE BOX	GPO BOX
LOCKED MAIL BAG SERVICE	LOCKED BAG
MAIL SERVICE	MS
POST OFFICE BOX	PO BOX
PRIVATE MAIL BAG SERVICE	PRIVATE BAG
ROADSIDE DELIVERY	RSD
ROADSIDE MAIL BOX/BAG	RMB
ROADSIDE MAIL SERVICE	RMS

Address type

Address type
Physical
Postal

Unit type

Unit type	Code
ANTENNA	ANT
APARTMENT	APT
AUTOMATED TELLER MACHINE	ATM
BARBECUE	BBQ
BLOCK	BLOCK
BOATSHED	BTSD
BUILDING	BLDG
BUNGALOW	BNGW
CAGE	CAGE
CARPARK	CARP
CARSPACE	CARS
CLUB	CLUB
COOLROOM	COOL
COTTAGE	CTGE
DUPLEX	DUPL
FACTORY	FCTY
FLAT	FLAT
FLOOR	FLOOR
GARAGE	GRGE
GRID	GRID
HALL	HALL

HOUSE	HSE
JETTY	JETTY
KIOSK	KSK
LEASE	LSE
LEVEL	LEVEL
LOBBY	LBBY
LOC	LOC
LOFT	LOFT
LOT	LOT
MAISONETTE	MSNT
MARINE BERTH	MBTH
OFFICE	OFFC
RESERVE	RESV
ROOM	ROOM
SECTION	SECTION
SHED	SHED
SHOP	SHOP
SHOWROOM	SHRM
SIGN	SIGN
SITE	SITE
STALL	STLL
STORE	STOR
STRATA UNIT	STR

STUDIO	STU
SUBSTATION	SUBS
SUITE	SE
TENANCY	TNCY
TOWER	TWR
TOWNHOUSE	TNHS
UNIT	UNIT
VAULT	VLT
VILLA	VLLA
WARD	WARD
WAREHOUSE	WHSE
WORKSHOP	WKSH

Street type

Street type	Code
ACCESS	ACCS
ALLEY	ALLY
ALLEYWAY	ALWY
AMBLE	AMBL
APPROACH	APP
ARCADE	ARC
ARTERIAL	ARTL
ARTERY	ARTY

AVENUE	AV
BANAN	BA
BEND	BEND
BOARDWALK	BWLK
BOULEVARD	BVD
BRACE	BR
BRAE	BRAE
BREAK	BRK
BROADWAY	BWY
BROW	BROW
BYPASS	BYPA
BYWAY	BYWY
CAUSEWAY	CSWY
CENTRE	CTR
CHASE	CH
CIRCLE	CIR
CIRCUIT	CCT
CIRCUS	CRCS
CLOSE	CL
COMMON	COMN
CONCOURSE	CON
COPSE	CPS
CORNER	CNR

COURT	CT
COURTYARD	CTYD
COVE	COVE
CRESCENT	CR
CREST	CRST
CROSS	CRSS
CUL-DE-SAC	CSAC
CUTTING	CUTT
DALE	DALE
DIP	DIP
DRIVE	DR
DRIVEWAY	DVWY
EDGE	EDGE
ELBOW	ELB
END	END
ENTRANCE	ENT
ESPLANADE	ESP
EXPRESSWAY	EXP
FAIRWAY	FAWY
FOLLOW	FOLW
FOOTWAY	FTWY
FORMATION	FORM
FREEWAY	FWY

FRONTAGE	FRTG
GAP	GAP
GARDENS	GDNS
GATE	GTE
GLADE	GLDE
GLEN	GLEN
GRANGE	GRA
GREEN	GRN
GROVE	GR
HEIGHTS	HTS
HIGHROAD	HIRD
HIGHWAY	HWY
HILL	HILL
INTERCHANGE	INTG
JUNCTION	JNC
KEY	KEY
LANE	LANE
LANEWAY	LNWY
LINE	LINE
LINK	LINK
LOOKOUT	LKT
LOOP	LOOP
MALL	MALL

MEANDER	MNDR
MEWS	MEWS
MOTORWAY	MTWY
NOOK	NOOK
OUTLOOK	OTLK
PARADE	PDE
PARKWAY	PWY
PASS	PASS
PASSAGE	PSGE
PATH	PATH
PATHWAY	PWAY
PIAZZA	PIAZ
PLACE	PL
PLAZA	PLZA
POCKET	PKT
POINT	PNT
PORT	PORT
PROMENADE	PROM
QUADRANT	QDRT
QUAYS	QYS
RAMBLE	RMBL
REST	REST
RETREAT	RTT

RIDGE	RDGE
RISE	RISE
ROAD	RD
ROTARY	RTY
ROUTE	RTE
ROW	ROW
RUE	RUE
SERVICEWAY	SVWY
SHUNT	SHUN
SPUR	SPUR
SQUARE	SQ
STREET	ST
STRIP	STRP
SUBWAY	SBWY
TARN	TARN
TERRACE	TCE
THOROUGHFARE	THFR
TOLLWAY	TLWY
TOP	TOP
TOR	TOR
TRACK	TRK
TRAIL	TRL
TURN	TURN

UNDERPASS	UPAS
VALE	VALE
VIADUCT	VIAD
VIEW	VIEW
VILLAGE	VILG
VISTA	VSTA
WALK	WALK
WALKWAY	WKWY
WATERS	WTRS
WAY	WAY
WHARF	WHRF
WYND	WYND

State/Territory

State/Territory	Code
Australian Capital Territory	ACT
New South Wales	NSW
Northern Territory	NT
Queensland	QLD
South Australia	SA
Tasmania	TAS
Victoria	VIC
Western Australia	WA

Postcode

The postcode data is under Australia Post license. A free download is available for non-commercial use or a commercial license can be purchased from Australia Post.[7]

The REC Registry uses the following web service query to validate the postcode and postcode/suburb map http://auspost.com.au/api/postcode/search.json?q={postcode}&state={state}

Country

Country	Code
ASCENSION ISLAND	AC
ANDORRA	AD
UNITED ARAB EMIRATES	AE
AFGHANISTAN	AF
ANTIGUA AND BARBUDA	AG
ANGUILLA	AI
ALBANIA	AL
ARMENIA	AM
NETHERLANDS ANTILLES	AN
ANGOLA	AO
ANTARCTICA	AQ
ARGENTINA	AR
AMERICAN SAMOA	AS
AUSTRIA	AT
AUSTRALIA	AU

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[7] https://auspost.com.au/postcode

ARUBA	AW
AZERBAIJAN	AZ
BOSNIA AND HERZEGOVINA	BA
BARBADOS	BB
BANGLADESH	BD
BELGIUM	BE
BURKINA FASO	BF
BULGARIA	BG
BAHRAIN	BH
BURUNDI	BI
BENIN	BJ
BERMUDA	BM
BRUNEI DARUSSALAM	BN
BOLIVIA	BO
BRAZIL	BR
BAHAMAS	BS
BHUTAN	BT
BOUVET ISLAND	BV
BOTSWANA	BW
BELARUS	BY
BELIZE	BZ
CANADA	CA
COCOS (KEELING) ISLANDS	CC

CONGO, DEMOCRATIC REPUBLIC OF THE	CD
CENTRAL AFRICAN REPUBLIC	CF
CONGO, REPUBLIC OF	CG
SWITZERLAND	CH
COTE D'IVOIRE	CI
COOK ISLANDS	CK
CHILE	CL
CAMEROON	CM
CHINA	CN
COLOMBIA	CO
COSTA RICA	CR
CUBA	CU
CAP VERDE	CV
CHRISTMAS ISLAND	CX
CYPRUS	CY
CZECH REPUBLIC	CZ
GERMANY	DE
DJIBOUTI	DJ
DENMARK	DK
DOMINICA	DM
DOMINICAN REPUBLIC	DO
ALGERIA	DZ
ECUADOR	EC

ESTONIA	EE
EGYPT	EG
WESTERN SAHARA	EH
ERITREA	ER
SPAIN	ES
ETHIOPIA	ET
FINLAND	FI
FIJI	FJ
FALKLAND ISLANDS (MALVINA)	FK
MICRONESIA	FM
FAROE ISLANDS	FO
FRANCE	FR
GABON	GA
GRENADA	GD
GEORGIA	GE
FRENCH GUIANA	GF
GUERNSEY	GG
GHANA	GH
GIBRALTAR	GI
GREENLAND	GL
GAMBIA	GM
GUINEA	GN
GUADELOUPE	GP

EQUATORIAL GUINEA	GQ
GREECE	GR
SOUTH GEORGIA AND THE SOUTH SANDWICH ISLANDS	GS
GUATEMALA	GT
GUAM	GU
GUINEA-BISSAU	GW
GUYANA	GY
HONG KONG	HK
HEARD AND MCDONALD ISLANDS	HM
HONDURAS	HN
CROATIA/HRVATSKA	HR
HAITI	HT
HUNGARY	HU
INDONESIA	ID
IRELAND	IE
ISRAEL	IL
ISLE OF MAN	IM
INDIA	IN
BRITISH INDIAN OCEAN TERRITORY	IO
IRAQ	IQ
IRAN (ISLAMIC REPUBLIC OF)	IR
ICELAND	IS
ITALY	IT

JERSEY	JE
JAMAICA	JM
JORDAN	JO
JAPAN	JP
KENYA	KE
KYRGYZSTAN	KG
CAMBODIA	KH
KIRIBATI	KI
COMOROS	KM
SAINT KITTS AND NEVIS	KN
KOREA, DEMOCRATIC PEOPLE'S REPUBLIC	KP
KOREA, REPUBLIC OF	KR
KUWAIT	KW
CAYMAN ISLANDS	KY
KAZAKHSTAN	KZ
LAO PEOPLE'S DEMOCRATIC REPUBLIC	LA
LEBANON	LB
SAINT LUCIA	LC
SRI LANKA	LK
LIBERIA	LR
LESOTHO	LS
LITHUANIA	LT
LUXEMBOURG	LU

LATVIA	LV
LIBYAN ARAB JAMAHIRIYA	LY
MOROCCO	MA
MONACO	MC
MOLDOVA	MD
MADAGASCAR	MG
MARSHALL ISLANDS	MH
MACEDONIA	MK
MALI	ML
MYANMAR	MM
MONGOLIA	MN
MACAU	MO
NORTHERN MARIANA ISLANDS	MP
MARTINIQUE	MQ
MAURITANIA	MR
MONTSERRAT	MS
MALTA	MT
MAURITIUS	MU
MALDIVES	MV
MALAWI	MW
MEXICO	MX
MALAYSIA	MY
MOZAMBIQUE	MZ

NAMIBIA	NA
NEW CALEDONIA	NC
NIGER	NE
NORFOLK ISLAND	NF
NIGERIA	NG
NICARAGUA	NI
NETHERLANDS	NL
NORWAY	NO
NEPAL	NP
NAURU	NR
NIUE	NU
NEW ZEALAND	NZ
OMAN	OM
PANAMA	PA
PERU	PE
FRENCH POLYNESIA	PF
PAPUA NEW GUINEA	PG
PHILIPPINES	PH
PAKISTAN	PK
POLAND	PL
ST PIERRE AND MIQUELON	PM
PITCAIRN ISLAND	PN
PUERTO RICO	PR

PALESTINIAN TERRITORIES	PS
PORTUGAL	PT
PALAU	PW
PARAGUAY	PY
QATAR	QA
REUNION ISLAND	RE
ROMANIA	RO
RUSSIAN FEDERATION	RU
RWANDA	RW
SAUDI ARABIA	SA
SOLOMON ISLANDS	SB
SEYCHELLES	SC
SUDAN	SD
SWEDEN	SE
SINGAPORE	SG
ST HELENA	SH
SLOVENIA	SI
SVALBARD AND JAN MAYEN ISLANDS	SJ
SLOVAK REPUBLIC	SK
SIERRA LEONE	SL
SAN MARINO	SM
SENEGAL	SN
SOMALIA	SO

SURINAME	SR
SAO TOME AND PRINCIPE	ST
EL SALVADOR	SV
SYRIAN ARAB REPUBLIC	SY
SWAZILAND	SZ
TURKS AND CAICOS ISLANDS	TC
CHAD	TD
FRENCH SOUTHERN TERRITORIES	TF
TOGO	TG
THAILAND	TH
TAJIKISTAN	TJ
TOKELAU	TK
TURKMENISTAN	TM
TUNISIA	TN
TONGA	TO
EAST TIMOR	TP
TURKEY	TR
TRINIDAD AND TOBAGO	TT
TUVALU	TV
TAIWAN	TW
TANZANIA	TZ
UKRAINE	UA
UGANDA	UG

UNITED KINGDOM	UK
US MINOR OUTLYING ISLANDS	UM
UNITED STATES	US
URUGUAY	UY
UZBEKISTAN	UZ
HOLY SEE (CITY VATICAN STATE)	VA
SAINT VINCENT AND THE GRENADINES	VC
VENEZUELA	VE
VIRGIN ISLANDS (BRITISH)	VG
VIRGIN ISLANDS (USA)	VI
VIETNAM	VN
VANUATU	VU
WALLIS AND FUTUNA ISLANDS	WF
WESTERN SAMOA	WS
YEMEN	YE
MAYOTTE	YT
YUGOSLAVIA	YU
SOUTH AFRICA	ZA
ZAMBIA	ZM
ZIMBABWE	ZW

Reference data E: Deeming periods

Installation year	Solar	Wind	Hydro
2013	One year, Five years, Fifteen years	One year, Five years	One year, Five years
2014	One year, Five years, Fifteen years	One year, Five years	One year, Five years
2015	One year, Five years, Fifteen years	One year, Five years	One year, Five years
2016	One year, Five years, Fifteen years	One year, Five years	One year, Five years
2017	One year, Five years, Fourteen years	One year, Five years	One year, Five years
2018	One year, Five years, Thirteen years	One year, Five years	One year, Five years
2019	One year, Five years, Twelve years	One year, Five years	One year, Five years
2020	One year, Five years, Eleven years	One year, Five years	One year, Five years
2021	One year, Five years, Ten years	One year, Five years	One year, Five years
2022	One year, Five years, Nine years	One year, Five years	One year, Five years
2023	One year, Five years, Eight years	One year, Five years	One year, Five years
2024	One year, Five years, Seven years	One year, Five years	One year, Five years
2025	One year, Five years, Six years	One year, Five years	One year, Five years
2026	One year, Five years	One year, Five years	One year, Five years
2027	One year, Four years	One year, Four years	One year, Four years

2028	One year, Three years	One year, Three years	One year, Three years
2029	One year, Two years	One year, Two years	One year, Two years
2030	One year	One year	One year

Reference data F: SPV data that forms part of the STC creation form

Signed data package data that forms a portion of the REC Registry form for STC registration

The following fields (mandatory unless stated otherwise) are sourced from the Signed Data Package.

- Installation date
- System/panel brand
- System/panel model
- Rated power output (in kW) of your small generation unit
- Number of panels
- Equipment model serial number(s)
- Installation street number (not mandatory)
- Installation street name
- Installation street type
- Installation town/suburb
- Installation state
- Installation postcode
- Installation latitude
- Installation longitude
- Installer first name
- Installer surname
- CEC accredited installer number
- Retailer name
- Retailer ABN