

Removal of Old Appliances

Method Guide

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Inquiries regarding this document should be directed to:

ESS Enquiries (02) 9290 8452 or ESS@ipart.nsw.gov.au

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1 About this document

The NSW Energy Savings Scheme (ESS) seeks to reduce energy consumption in NSW by creating financial incentives for organisations to invest in energy saving projects.

The other objects of the ESS are to:

- assist households and businesses to reduce energy consumption and energy costs
- make the reduction of greenhouse gas emissions achievable at a lower cost, and
- reduce the cost of, and need for, additional energy generation, transmission and distribution infrastructure.

Electricity retailers and other mandatory participants (**Scheme Participants**) are obliged to meet energy saving targets. Energy savings can be achieved by installing, improving or replacing energy saving equipment. Persons that become Accredited Certificate Providers (**ACPs**) can create energy savings certificates (**ESCs**) from these activities and then sell those ESCs to Scheme Participants. The Independent Pricing and Regulatory Tribunal of NSW (**IPART**) is both the Scheme Administrator and Scheme Regulator of the ESS.²

This document provides guidance about how the Removal of Old Appliances (RoOA) method of the ESS operates, some of the key requirements that must be met when using the method, and how to calculate energy savings for a Recognised Energy Saving Activity (RESA) and create ESCs. This document should be used by:

- ▼ applicants seeking accreditation as a certificate provider, to assist them in completing their application,³ and
- those persons who are already ACPs, to assist them in accurately calculating energy savings using this method.

1.1 Legislative requirements

This document is a guide only and is not legal advice. The legal requirements for ACPs participating in the ESS are set out in:

- ▼ Part 9 of the *Electricity Supply Act* 1995 (**Act**)
- Part 6 of the Electricity Supply (General) Regulation 2014 (Regulation), and
- the Energy Savings Scheme Rule of 2009 (ESS Rule).

ACPs are also required to meet any additional accreditation conditions as set out in their Accreditation Notice.

2 Electricity Supply Act 1995, sections 153(2) and 151(2)

¹ Electricity Supply Act 1995, section 98(2)

³ A full explanation of the application process is provided in the Application Guide www.ess.nsw.gov.au/How_to_apply_for_accreditation/The_application_process. Please ensure you read this document and the Application Guide in full before applying for accreditation.

2 Method overview

The method can be used to calculate energy savings and create ESCs from the removal of old, or spare, refrigerators and freezers that consume more electricity than new refrigerators and freezers.

3 Requirements that must be met

The information below is guidance about the requirements of the method. This is not an exhaustive list of requirements, and you should ensure that you are familiar with your obligations under the Act, Regulation, ESS Rule and any conditions of your accreditation.

3.1 Energy saver

An ACP can only calculate energy savings and create ESCs if the ACP is the 'energy saver' under the ESS Rule. The ACP must be the energy saver as at the implementation date. An energy saver can be either:

- the **original energy saver** which, under this method, is the person who is contracted to remove the equipment (the contractor), or
- the **nominated energy saver** which is someone the original energy saver has nominated as the energy saver by completing a Nomination Form.⁴

An ACP that is the original energy saver must be accredited as an ACP **prior to** the implementation date in order to create ESCs from an implementation.

An ACP that is a nominated energy saver must:

- be accredited as an ACP prior to the implementation date and before the nomination is made,⁵
- have a documented procedure for obtaining the nomination from the original energy saver, and
- be nominated by the original energy saver on or before the implementation date. The nomination is taken to occur on the date that the nomination form is signed by the original energy saver.

3.2 Implementation, implementation date and site

The ESS Rule defines 'implementations', 'implementation dates' and 'site' (explained below). These concepts are used to determine the number of ESCs, and from when they can be created.

⁴ Available at: www.ess.nsw.gov.au/Accredited_Certificate_Providers/Templates

⁵ The ESS website provides information on applying to become an ACP at: www.ess.nsw.gov.au/How_to_apply_for_accreditation.

3.2.1 Implementation

An implementation is the delivery of an energy saving activity (called a '**RESA**' in the ESS Rule)⁶ at a site. Activities eligible to be RESAs where the RoOA method is used are set out in Schedule C the ESS Rule (see section 3.3 and Appendix A of this guide).

3.2.2 Implementation date

For RESAs under the RoOA method, the implementation date is the date the appliance is removed from the site.

3.2.3 Site

Each site address is a different implementation under this method, and multiple eligible old appliances may be removed from a site. If they are removed on the same date they will be part of the same implementation.

The 'site' must be an eligible residential building or eligible small business building with a NSW address. For these purposes:

- residential building means a building classified as a Building Code of Australia (BCA) Class 1, 2 or 4 building, and may include any non-habitable building on the same site, and
- * 'small business building' means a building comprising total floor space less than 200 square metres and classified as a BCA Class 5, 6, 7b, 8, 9 or 10 building.

3.3 Eligible appliances

The appliance removal must be included in an activity definition in Schedule C of the ESS Rule (reproduced in Appendix A of this guide). Each activity definition defines a class of appliance that can be removed and the requirements the appliance must meet. The activity definitions are listed in Table 3.1 below.

Table 3.3.1 Eligible equipment types

Activity Definition	Old Appliance Type	
C1	Spare refrigerator or freezer – capacity of 200 L or greater	
C2	Primary refrigerator or freezer – capacity of 200 L or greater	

⁶ A RESA must meet all of the criteria set out in clause 5.3 and 5.4 of the ESS Rule.

3.3.1 Equipment requirements

Equipment requirements are specified under each activity definition. Generally the appliance must meet the appropriate group classification under AS/NZS 4474,7 be in working order and be of 200 litres (L) capacity or more. For category C1, it must be a spare refrigerator or freezer, and the site must have another refrigerator or freezer providing primary refrigeration that is located in, or closer to the kitchen. For category C2, it must be the primary refrigerator or freezer.

The capacity requirement for 200 L or greater is intended to exclude bar fridges from this method. Most other refrigerators will have capacities greater than 200 L. For combined refrigerator/freezers the capacity includes both compartments. You must ensure each appliance you remove meets this size requirement.

3.3.2 Activity requirements

The requirements for both removal activities (C1 and C2) from the ESS Rule are that:

- The site from which the appliance(s) is removed must be an eligible building. For activity C1, it must be an eligible residential building, however, for activity C2, both residential and small business buildings are eligible (refer section 3.2.3).
- The appliance(s) being removed must meet the relevant equipment requirements defined in Schedule C of the ESS Rule (reproduced in Appendix A of this guide).
- Each eligible appliance must be removed from the site and disposed of.
 - Each appliance must be tracked from pick up to destruction with a unique identifier to ensure that each appliance picked up is disposed of correctly.
- The disposal agent must have a refrigerant handling licence.
 - This is to ensure that refrigerant gases from the disposed appliances are disposed of according to relevant legislation.

For implementations with an implementation date on or after 15 May 2016, recycling evidence must be obtained for any refrigerants being disposed of, such as a tax invoice or a recycling receipt, or any other evidence acceptable to the Scheme Administrator.

3.4 Minimum requirements for conduct of representatives

The Scheme Administrator has established minimum requirements for the conduct of ACPs and their representatives. This includes ACP responsibilities for:

- training representatives
- maintaining a register of representatives
- ensuring there is a formal, documented, signed and enforceable (legally binding) contract or agreement in place for each representative, and
- providing appropriate customer service.

⁷ Refer to Schedules C1 and C2 of the ESS Rule.

ACPs are accountable for all ESS activities conducted by employees, third parties and other representatives. This includes all aspects of an activity for which they create ESCs, from the initial engagement with customers, through to the final quality assurance of documents. ACPs will be held responsible for all actions, omissions and information provided by representatives acting on their behalf under the ESS – regardless of any contract or agreement with other parties. For more information, refer to ESS Notice 01/2013 (amended July 2014) Minimum requirements for conduct of persons acting on behalf of ACPs.8

4 Calculating energy savings

The relevant equations and tables used to calculate energy savings using the method are provided in the Appendices of this guide. Under the ESS Rule, energy savings comprise both 'electricity savings' and 'gas savings'.

4.1 Electricity savings

The electricity savings from an implementation of the method can be calculated using equation 15 of the ESS Rule (reproduced in Appendix C), which uses:

- the Deemed Equipment Electricity Savings from Activity Definitions C1 and C2 from the ESS Rule (reproduced in Appendix A of this guide), and
- the Regional Network Factor from Table A24 in Schedule A of the ESS Rule (reproduced in Appendix B of this guide).

If a contractor removes multiple appliances in a single removal, all the appliances removed are treated as belonging to a common implementation (removal), and the energy savings for that implementation are the sum of the deemed equipment energy savings for each eligible appliance removed.

4.2 Gas savings

The gas savings from this method will always be equal to zero (as, under the ESS Rule, gas savings are not calculated for this method and are therefore not applicable).

5 Calculating and creating ESCs

Equation 1 of the ESS Rule is used to calculate the number of ESCs that may be created from the energy savings calculated in relation to an implementation.

Equation 1

Number of Certificates = $\Sigma_{Implementations}$ Electricity Savings x Electricity Certificate Conversion Factor + Gas Savings x Gas Certificate Conversion Factor

⁸ Refer: www.ess.nsw.gov.au/ESS_Notices_and_Updates

5.1 Applying to register ESCs

Certain information must be submitted to the Scheme Administrator **before** an ACP applies to register ESCs.⁹ ACPs are to provide the required information by completing an *Implementation Data Sheet* ¹⁰ and submitting it through the ESS Portal.¹¹ The *Implementation Data Sheet* will include a calculation of the number of ESCs to be created in accordance with Equation 1 in the ESS Rule. This calculation involves multiplying the electricity savings arising from the implementation or implementations by the certificate conversion factor for electricity (1.06).¹²

The result is the total number of ESCs that ACPs can apply to register from the implementation or implementations. If the result is not a whole number, it is rounded **down** to the nearest whole number.

There are no restrictions on how many implementations can be bundled together in the same *Implementation Data Sheet*. However:

- ACPs must apply to register all ESCs included in an Implementation Data Sheet in a single application
- ACPs cannot split energy savings calculated from a single implementation across two or more *Implementation Data Sheets*, and
- each *Implementation Data Sheet* must only include the calculation of energy savings that are taken to have occurred in the same calendar year (commonly referred to as 'vintage').

When determining how many implementations to bundle in the same *Implementation Data Sheet*, ACPs should consider:

- the ESC creation limit specified in their Accreditation Notice, as they must be able to register all the ESCs in the bundle at the same time, and
- the cost of registering the ESCs.¹³

More information on applying to register the creation of ESCs can be found on the ESS website.¹⁴

6 Minimum required records

ACPs are required to keep records in respect of a RESA, including records of:

- the location in which the RESA occurred
- the energy savings arising from that RESA

⁹ ESS Rule, cl 6.8

Available at: http://www.ess.nsw.gov.au/Registry/Registering_certificates

¹¹ Information and access to the portal can be found here: www.ess.nsw.gov.au/ESS_Portal

The Act, s 130(1)(a). This may be amended by regulations: see the Act, s 130(3).

The ESC registration fee must be paid in a single payment for all ESCs registered in a single bundle. Payment for a single bundle cannot be split into two payments. Refer: www.ess.nsw.gov.au/Registry/Registering_certificates

Avaliable at: www.ess.nsw.gov.au/Registry/Creating_certificates

- the methodology, data and assumptions used to calculate those energy savings, and
- any other records specified by the Scheme Administrator.¹⁵

ACPs must retain records for at least six years, in a form and manner approved by the Scheme Administrator. Each ACP's Accreditation Notice may include a condition requiring that the ACP's record keeping arrangements are consistent with the ESS Record Keeping Guide.16

Table 6.1 below describes the minimum documents you are required to keep as a record of the energy savings from your project. You must collect the required documents for each implementation of your activity.

¹⁵ Electricity Supply (General) Regulation 2014, cl 46

Available at: www.ess.nsw.gov.au/Accredited_Certificate_Providers/Record_keeping_arrangements

Table 6.1 Minimum required records for all implementations

Requirement	Document	Description
Implementation	Tax invoice	The document must clearly show the date of the removal and the address where the
Date and	or	removal occurred.
Address	Run sheet	
	or	
	Signed owner and contractor declaration	
	or	
	Time-stamped photo	
Energy Saver	Signed appliance owner and contractor	The document must clearly show:
	declaration	▼ the contractor's name, ABN and address
	or	▼ the address of the appliance retailer.
	Tax invoice	If the declaration is provided, it must be signed and dated by both the appliance owner and contractor.
Nomination	Nomination form	The nomination form must:
		be in the required form (ie, using the relevant template available from the ESS website), and
		▼ be signed by the original energy saver on or before the implementation date.
Appliance size	Signed appliance owner and contractor	The declaration must state:
and working	declaration	▼ that the capacity of the appliance is 200L or greater
order		▼ whether the label was used or the capacity was measured
		that another primary refrigerator is at the premises, and is located close to, or in, the kitchen (C1 activities only)
		▼ the appliance is in working order.
		The declaration must be signed and dated by both the appliance owner and contractor.
Disposal	Tax invoice or recycling receipt and	The document must show that the fridge or freezer has been disposed of at a metal recycling and/or refrigerant destruction facility.
	Disposal Agent's Licence	The document must show that the fridge or freezer has been disposed of by a licensed refrigerant handler (licences are issued by Australian Refrigeration Council).
Calculations	The spreadsheet or calculation tool used to calculate energy savings from each implementation.	The document must clearly show your calculation of energy savings, and the data inputs and factors applied as required for the relevant activity in Schedule C of the ESS Rule.

7 Glossary

Words which are defined in the ESS Rule and used in this Method Guide have the same meaning in this Method Guide as in the ESS Rule, unless the context requires otherwise.

Term	Definition
ACP	Accredited Certificate Provider
Activity Definition	Refer Section 3.3 of this document
BCA	Building Code of Australia
Contractor	Refer Section 3.1 of this document
Disposal Agent	Refer Section 3.3.2 of this document
Energy Saver	Refer Section 3.1 of this document
ESC	Energy Savings Certificate
ESS	Energy Savings Scheme
ESS Rule	Energy Savings Scheme Rule of 2009
Implementation	Refer Section 3.2 of this document
Implementation Date	Refer Section 3.2 of this document
Removal	Refer Section 3.3 of this document

Appendices

A Activity definitions and tables from the ESS Rule

Activity Definition C1

Name of Activity

REMOVE A SPARE REFRIGERATOR OR FREEZER

Equipment Requirements

- 1. The Site where the End-User Equipment is located must be a Residential Building.
- 2. The End-User Equipment must be a Refrigerator or Freezer (or combination) that may be classified as Group 1, 2, 3, 4, 5T, 5B, 5S, 6C, 6U or 7 according to AS/NZS 4474.1 and 4474.2 Performance of household electrical appliances—Refrigerating appliances.
- 3. The Capacity of the Refrigerator or Freezer (as defined in AS/NZS 4474) must be 200 litres or more.
- 4. The Refrigerator or Freezer must be in working order.
- 5. There must be another Refrigerator or Freezer (as appropriate) at the Site that provides primary refrigeration or freezing services, located in, or closer to, the kitchen.
- 6. As a result of the activity there must be 1 fewer spare refrigerators and freezers at the Site.

Equipment Electricity Savings

Deemed Equipment Electricity Savings = 5.7 MWh per spare refrigerator or freezer removed

Lifetime (for information purposes only)

Lifetime = 7 years.

Activity Definition C2

Name of Activity

REMOVE A PRIMARY REFRIGERATOR OR FREEZER

Equipment Requirements

- 1. The Site where the End-User Equipment is located must be a Residential Building or Small Business Building.
- 2. The End-User Equipment must be a Refrigerator or Freezer (or combination) that may be classified as Group 1, 2, 3, 4, 5T, 5B, 5S, 6C, 6U or 7 according to AS/NZS 4474.1 and 4474.2 Performance of household electrical appliances—Refrigerating appliances.
- 3. The Capacity of the Refrigerator or Freezer (as defined in AS/NZS 4474) must be 200 litres or more.
- 4. The Refrigerator or Freezer must be in working order.
- 5. The activity may be carried out in combination with the delivery of a new refrigerator or freezer.

Equipment Electricity Savings

Deemed Equipment Electricity Savings = 2.4 MWh per primary refrigerator or freezer removed

Lifetime (for information purposes only)

Lifetime = 7 years.

B Regional Network Factors

Table A24: Regional Network Factors

Postcode of Site where Implementation occurred	Regional Network Factor
2311-2312	1.03
2321	1.03
2324	1.03
2329	1.03
2338-2490	1.03
2536-2537	1.03
2545-2551	1.03
2579-2599	1.03
2619-2739	1.03
2787	1.03
2791-2844	1.03
2850-2880	1.03
3585	1.03
3644	1.03
4383	1.03
All other postcodes	1

C Equation 15 of the ESS Rule

Equation 15

For each Implementation:

Electricity Savings = Σ Deemed Equipment Electricity Savings \times Regional Network Factor

Where:

- the summation is over all items of End-User Equipment that have been removed as part of the Implementation; and
- Deemed Equipment Electricity Savings, in MWh, are calculated according to **Activity Definition C1 or C2** of Schedule C.
- Regional Network Factor is the value from **Table A24** of Schedule A corresponding to the postcode of the Address of the Site or Sites where the Implementation(s) took place.