



Independent Pricing and Regulatory Tribunal

Method Guide Removal of Old Appliances Deemed Energy Savings Method

Energy Savings Scheme
January 2015

© Independent Pricing and Regulatory Tribunal of New South Wales 2015

This work is copyright. The *Copyright Act 1968* permits fair dealing for study, research, news reporting, criticism and review. Selected passages, tables or diagrams may be reproduced for such purposes provided acknowledgement of the source is included.

Enquiries regarding this document should be directed to:

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

Independent Pricing and Regulatory Tribunal of New South Wales
PO Box K35, Haymarket Post Shop, NSW 1240
Level 16, 2-24 Rawson Place, Sydney NSW 2000
T (02) 9290 8400 F (02) 9290 2061
www.ipart.nsw.gov.au

Document Control

| Version Number | Change Description | Date Published |
|----------------|---|------------------|
| V1.0 | Initial release – following gazettal of ESS Rule Amendment No. 2 | 3 September 2014 |
| V2.0 | Application Form: Part B – Method Details and Nomination Form removed from the Method Guide to be separate documents. | 8 January 2015 |

Contents

| | | |
|----------|---|----------|
| 1 | About this guide | 1 |
| 2 | Method overview | 1 |
| 3 | Method eligibility | 1 |
| 3.1 | Energy saver | 1 |
| 3.2 | Implementation and implementation date | 2 |
| 3.3 | Eligibility requirements | 2 |
| 4 | Calculating energy savings | 4 |
| 5 | Creating ESCs | 4 |
| 6 | Applying for Accreditation | 4 |
| 7 | Glossary | 5 |
| | Appendices | 7 |
| A | Activity Definitions and Equipment Requirements | 9 |

1 About this guide

This guide details how the Removal of Old Appliances Method of the NSW Energy Savings Scheme (ESS) operates, the eligibility requirements to use the method, and how to calculate energy savings. This guide should be used by:

- ▼ applicants who are seeking accreditation, to assist them in completing their application, and
- ▼ those persons already accredited (Accredited Certificate Providers), to assist them in accurately calculating energy savings for this method.

The *Application Form: Part B - Method Details Removal of Old Appliances (Application Form: Part B - Method Details)*¹ can be found on the apply for accreditation webpage for this method. The *Application Form: Part B - Method Details* can be completed by applicants using the information provided in this guide.

2 Method overview

The Removal of Old Appliances Method provides a way to calculate and create Energy Savings Certificates (ESCs) reflecting the energy savings resulting from the removal of old, or spare, refrigerators and freezers that consume more electricity than new refrigerators and freezers.

The method provides an incentive to permanently remove old and inefficient appliances from residential and small business premises.

3 Method eligibility

A number of requirements must be met for the creation of ESCs using the Removal of Old Appliances Method, which are outlined below.

3.1 Energy saver

Only an eligible energy saver can create ESCs using the Removal of Old Appliances Method.

¹ The Application Form: Part B - Method Details can be found on the ESS website at: http://www.ess.nsw.gov.au/Methods_for_calculating_energy_savings/Removal_of_Old_Appliances/Apply_for_Removal_of_Old_Appliances

Energy saver by definition

Under the Removal of Old Appliances Method, the energy saver is the person who is contracted to remove the equipment (the **contractor**).

This means, that if you plan to use contractors from another company to perform the appliance (equipment) removal from the residential or small business premises, you must obtain nomination forms from them that nominate you as the energy saver. There is no need to obtain nominations from your direct employees.

Becoming the energy saver through nomination

The contractor can nominate a third party as the energy saver by completing a nomination form generated from the Nomination Form Template² specific to this method, prior to the removal of the appliance(s). The nomination form template is available on the ESS website.

3.2 Implementation and implementation date

Implementations (i.e. the removal of an old appliance) and implementation dates (date of the removal from the site) are used to determine the number of ESCs (if any) that can be created, and from when they can be created. In particular, where appliances are removed before the person who wishes to create ESCs is accredited as an ACP, no ESCs will be able to be created in respect of that removal.

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.

3.3 Eligibility requirements

The appliance removal must be included in an activity definition in Schedule C of the ESS Rule (see 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 on the following page.

² The Nomination Form Template can be found on the ESS website at: http://www.ess.nsw.gov.au/Methods_for_calculating_energy_savings/Removal_of_Old_Appliances

Table 3.1 Eligible equipment types for Removal of Old Appliances

| Activity Definitions | 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 |

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 4474³, be in working order and be of 200 litre (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 collect meets this size requirement.

From time to time we may also update this guide, which may include other evidence acceptable to the Scheme Administrator for the removal of the relevant refrigerators/freezers.

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, an eligible residential building, however for activity C2 both residential and small business buildings are eligible.
 - A “residential building” means a building classified by the Building Code of Australia (BCA) as a Class 1 or Class 2 building, and may include any non-habitable building on the same site.
 - A “small business building” means a building comprising total floor space less than 200 square metres and classified by the BCA as a Class 6 building.
- ▼ The appliance(s) being removed must meet the relevant equipment requirements of Section 3.3.1 and Appendix A of this guide.
- ▼ Each eligible appliance must be removed from the site and disposed of.
 - You must track each appliance from pick up to destruction with a unique identifier to ensure that each appliance picked up is disposed of correctly.

³ Refer to Schedules C1 and C2 of the ESS Rule.

- ▼ 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.

4 Calculating energy savings

The energy savings resulting from a removal are the sum of the deemed equipment energy savings for each old appliance being removed from that site⁴.

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.

The deemed equipment energy savings are 5.7 MWh per category C1 appliance removed, and 2.4 MWh per category C2 appliance removed.

5 Creating ESCs

The **Evidence Manual Removal of Old Appliances** provides instructions on how to register ESCs from your Removal of Old Appliances implementations, and details the requirements for keeping records that verify the energy savings occurred.

The **Evidence Manual Removal of Old Appliances**⁵ and the **Evidence Package**⁶ that accompanies it are available on the ESS website.

6 Applying for Accreditation

A completed application tailored to this energy savings method is required for a person or organisation to become an Accredited Certificate Provider.

An application has multiple parts, which are explained in the **Application Guide**,⁷ which can be found on our website. As a minimum, you will have to provide:

⁴ As specified in equation 15 of the ESS Rule.

⁵ http://www.ess.nsw.gov.au/Methods_for_calculating_energy_savings/Removal_of_Old_Appliances

⁶ http://www.ess.nsw.gov.au/Methods_for_calculating_energy_savings/Removal_of_Old_Appliances

⁷ http://www.ess.nsw.gov.au/How_to_apply_for_accreditation

- ▼ Application Form: Part A - General details, available at http://www.ess.nsw.gov.au/How_to_apply_for_accreditation/Apply_for_accreditation
- ▼ Application Form: Part B - Method details, available at http://www.ess.nsw.gov.au/Methods_for_calculating_energy_savings/Removal_of_Old_Appliances/Apply_for_Removal_of_Old_Appliances.

For a full explanation of the application process, please read the Application Guide.

7 Glossary

Table 7.1 Removal of Old Appliances Method Definitions

| 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 3.2 of this document |



Appendices

A Activity Definitions and Equipment Requirements

A.1 Activity Definition C1: Spare Refrigerator or Freezer

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 4474.1:2007 and 4474.2:2009 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 less spare refrigerators and freezers at the Site.

Equipment Energy Savings

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

Lifetime (for information purposes only)

Lifetime = 7 years.

A.2 Activity Definition C2: Primary Refrigerator or Freezer

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 4474.1:2007 and 4474.2:2009 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 Energy Savings

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

Lifetime (for information purposes only)

Lifetime = 7 years.