

Since October 2013, computer monitors sold or hired in New Zealand must, by law, comply with [minimum energy performance standards \(MEPS\)](#) and [mandatory energy performance labelling \(MEPL\)](#) requirements. This document outlines the requirements and how to meet them if you import or manufacture computer monitors in New Zealand.

Why have MEPS & MEPL for monitors?

Minimum energy performance standards (MEPS) improve the efficiency of monitors and mandatory energy performance labelling (MEPL) enables customers to compare and select more efficient models, saving on running costs and reducing greenhouse gas emissions over the life of the product.

Which monitors are included?

MEPS and MEPL cover computer monitors with a diagonal screen size up to 152 cm.

- Monitors up to 76cm must comply with MEPS in on mode and standby and with MEPL requirements.
- Monitors between 76 and 152cm need to comply with MEPL but only need to comply with MEPS standby levels.

What do I need to do to comply with the law?

Importer and manufacturers of monitors, are required to:

- [Step-1](#) Ensure each monitor model has been tested to **AS/NZS 5815.1:2012** and meets or exceed the minimum energy performance levels in **AS/NZS 5815.2:2013**.
- [Step-2](#) Supply or attach the energy performance label on each model as specified in **AS/NZS 5815.2:2013**.
- [Step-3](#) Register each monitor model through the energy rating website.
- [Step-4](#) Provide EECA with product sales, import and export data each year.

Retailers are required to check their products are registered on the [energy rating website](#); and display the energy performance label on products on display for sale or hire.

See the questions and answers below for more information

Which monitors are excluded?

MEPS and MEPL do ***not*** apply to;

- monitors larger than 152cm (diagonal screen size),
- products with an integrated television tuner are classified as televisions and are already subject to MEPS and MEPL,
- electronic displays used exclusively for digital signage, advertising or digital picture frames,
- high performance displays with native pixel resolution greater than or equal to 2.3(1920x1200)MP,
- specialised electronic displays not intended for sale to the general public, or
- displays used in public settings.
- Combined products such as integrated PCs, tablets or integrated networking functionality such as video conferencing.

Which standards apply?

AS/NZS 5815.2:2013: Information technology equipment—Energy performance of computer monitors—Part 2: Minimum energy performance standards (MEPS) and energy rating labels.

AS/NZS 5815.1:2012: Information technology equipment—Energy performance of computer monitors—Part 1: Methods of measurement of energy performance.

Standards are available for purchase from www.standards.co.nz and for inspection at [EECA's head office](#).

How are energy levels calculated for monitors?

The energy rating label shows a star rating and the estimated annual energy consumption of the model.

The **Projected Annual Energy Consumption** (PAEC) of a monitor is calculated with the formula:

$$\text{PAEC} = 0.365 \times [(\text{Power On (average)} \times 10) + (14 \text{ hour standby active Power})] \text{ kWh/yr}$$

The **Comparative Energy Consumption** (CEC) in kWh/yr is calculated with the formula:
PAEC ≤ 1.1 x CEC and a star rating is then derived from the CEC.

What are the MEPS levels for monitors?

The sleep mode power is ≤ 2.0W and off mode power is ≤ 1.0W.

The on mode power for monitors with < 76 cm and resolution ≤ 1.1 MP is:

$$P_{O(\text{MEPS})} = (6 \times \text{screen resolution in MegaPixels}) + (0.00775 \times \text{screen area in cm}^2) + 3$$

The on mode power for monitors with < 76 cm and resolution > 1.1 MP is:

$$P_{0(MEPS)} = (9 \times \text{screen resolution in MegaPixels}) + (0.00775 \times \text{screen area in cm}^2) + 3$$

Where: P_0 = maximum on mode power (Watts)

What are the MEPL requirements for monitors?

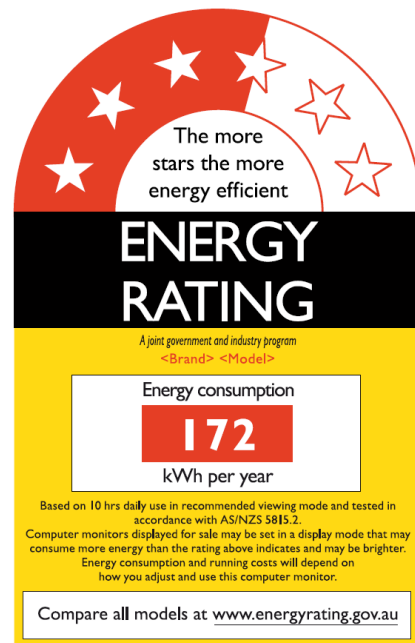
Monitors must be provided with an energy rating label as shown to the right.

For details on the energy rating label see **AS/NZS 5815.2:2013**. Standards are available for purchase from [Standards New Zealand](#) and for inspection at [EECA's head office](#).

A template of this label can be downloaded from the [energy rating website](#). For more information on MEPL for monitors see **AS/NZS 5815.2:2013**.

Retailers must check that monitors are registered and display their energy performance label.

See the [running costs calculator](#) to find out how a choosing a high star rating can reduce the cost to run a monitor.



How do I register a monitor on the energy rating website?

If the monitor you are about to register is already registered you are not required to register it. To check, search for the model at: reg.energyrating.gov.au/comparator/product_types.

If it is not already registered download our quick start guide at: www.eeca.govt.nz/resource/online-product-registration-guide.

If you haven't used the energyrating.gov.au website before, follow these instructions:

- Step 1** Open the registration page: reg.energyrating.gov.au/accounts/register.
- Step 2** Create an account and log in.
- Step 3** Create an applicant, add contact people etc. as required.
- Step 4** Create a new product registration (you will need a test report).
- Step 5** Select 'Computer Monitor (CM)'.
- Step 6** Follow the steps until all fields are complete.
- Step 7** Once submitted you will be e-mailed a Registration ID, record this as you will need it to provide sales data each year.

Note: A range of computer monitor models, manufactured in multiple styles, may be registered as a product "family" if the family definition (below) is met.

What is a family of models?

A range of computer monitor which;

- are marketed as in the same product class or category,
- have identical physical size and component arrangements,
- have identical energy performance characteristics (on which compliance with MEPS and MEPL is assessed), and
- rely on, and use the same test report data for registration purposes.

What information do I need to provide to EECA each year and how do I do it?

Importers and manufacturers are required, by law, to provide statistical information on sales, import and export data annually to EECA.

Data needs to be submitted every year by 1 August, for the period 1 April to 31 March. For example, data from 1 April 2013 to 31 March 2014 must be received by 1 August 2014. The information is submitted through the EECA website where you need to:

Step 1 Set up a user account at www.eeca.govt.nz/webform/request-user-account.

Step 2 Once approved, log in at www.eeca.govt.nz/user/register/supplier/login.

Step 3 When logged in follow the links and instructions for the EECA sales data return tool.

Step 4 Enter your product data - you will need your Registration ID number - the following information is required for each registered model:

- Sales in New Zealand between 1 April and 31 March.
- Imports into New Zealand between 1 April and 31 March.
- Exports from New Zealand between 1 April and 31 March.

Where do I get additional information?

More information about regulated products and how to meet your legal obligations can be found at www.eeca.govt.nz/product-standards.

See the [running costs calculator](#) to find out how choosing a higher star rating can reduce the running costs of products.

There is also information on the energy rating website at www.energyrating.gov.au.

If you have any questions, please email us at compliance@eeca.govt.nz, or phone EECA on **0800 358 676**.