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## No. S 900

### RESOURCE SUSTAINABILITY ACT 2019 (ACT 29 OF 2019)

### RESOURCE SUSTAINABILITY (PRESCRIBED REGULATED PRODUCTS) REGULATIONS 2019

#### ARRANGEMENT OF REGULATIONS

##### Regulation

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In exercise of the powers conferred by section 52(1) of the Resource Sustainability Act 2019, the Minister for the Environment and Water Resources makes the following Regulations:

#### **Citation and commencement**

1.—(1) These Regulations are the Resource Sustainability (Prescribed Regulated Products) Regulations 2019 and, except for regulation 5, come into operation on 1 January 2020.

(2) Regulation 5 comes into operation on 1 July 2021.

#### **Definitions**

2. In these Regulations, unless the context otherwise requires —
- “air-conditioner” means a single-phase encased assembly or assemblies of one or more evaporators, compressors and

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condensers, designed to be used together as a piece of equipment to provide conditioned air to any enclosed space, and —

(a) includes a prime source of refrigeration for cooling and dehumidification; and

(b) may include other means for dehumidifying, circulating and cleaning the air in the enclosed space,

but does not include —

(c) an air-conditioner designed to be installed in or suspended from the ceiling;

(d) an air-conditioner that is part of a centralised ducted air-conditioning assembly;

(e) an air-conditioner with a variable refrigerant flow air-conditioning assembly;

(f) any pipe for refrigerant or condensate connecting the evaporator, compressor or condenser in an assembly; or

(g) an air-conditioner that is a component of another product with one or more other functions;

“battery” means a source of electrical energy generated by direct conversion of chemical energy and consisting of one or more battery cells, whether rechargeable or non-rechargeable;

“compact fluorescent lamp with integrated ballast” has the meaning given by Part 2 of the Third Schedule to the Energy Conservation (Prescribed Regulated Goods) Order 2017 (G.N. No. S 747/2017);

“compact fluorescent lamp without integrated ballast” has the meaning given by Part 2 of the Third Schedule to the Energy Conservation (Prescribed Regulated Goods) Order 2017;

“computer” means an electronic, magnetic, optical, electrochemical or other data processing device, or a group of such interconnected or related devices, performing logical,

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arithmetic, data storage or a combination of one or more of these functions, but does not include —

- (a) a computer that is an automated typewriter or automated typesetter;
- (b) a hand-held calculator;
- (c) a computer that is not designed to be programmable by the end-user;
- (d) a computer designed to be a gaming console;
- (e) a computer that is a mobile telephone; or
- (f) a computer that is a component of another product with one or more other functions;

“consumer computer” means a computer that is not a specified computer or a server;

“consumer electric vehicle battery” means an electric vehicle battery designed to be used with a motor vehicle mentioned in rule 19(a), (b), (c), (d) or (e) of the Road Traffic (Motor Vehicles, Driving Licences) Rules (Cap. 276, R 27);

“consumer lamp” means a specified single-phase lamp that is —

- (a) an incandescent lamp with an Edison screw or a bayonet lamp cap, of 25W or above but not exceeding 100W;
- (b) a compact fluorescent lamp with integrated ballast, with an Edison screw or a bayonet lamp cap, of up to 80W;
- (c) a compact fluorescent lamp without integrated ballast, with a G24d lamp cap, of up to 80W;
- (d) a linear, double-capped, fluorescent lamp with a tube diameter of 16 mm (T5) or 26 mm (T8) and with a length of 0.5 m and above but not exceeding 1.5 m, of up to 80W;
- (e) a circular fluorescent lamp with a tube diameter of 16 mm (T5) or 29 mm (T9) and with a lamp diameter

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of 8 inches and above but not exceeding 16 inches, of up to 80W;

- (f) an LED lamp, with an Edison screw or a bayonet lamp cap, of up to 80W; or
- (g) an LED lamp designed as a direct replacement for a lamp described in paragraph (c) or (d) without requiring any internal modification of the luminaires, of up to 80W;

“desktop monitor” means an electronic output device that —

- (a) displays information in visual form;
- (b) does not process data;
- (c) is designed to display visual output from a computer; and
- (d) is not designed to be mounted on a rack for use on a server tower,

but does not include —

- (e) a television;
- (f) an interactive display panel or interactive whiteboard;
- (g) a reference display monitor designed for a specialised industrial purpose; or
- (h) a desktop monitor that is a component of another product with one or more other functions;

“dryer” means a single-phase electrical assembly consisting of —

- (a) a rotating drum, in which textile material is dried by tumbling; and
- (b) a heating device, which heats the air used for drying the textile material in the rotating drum,

but does not include —

- (c) a coin-operated or card-operated dryer;

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- (d) a dryer that is designed to be fully programmable by the end-user;
  - (e) a dryer with a weight of 65 kg or more; or
  - (f) a dryer that is a component of another product with one or more other functions;

“electric mobility device” means a personal mobility device, a power-assisted bicycle or an electric mobility scooter;

“electric mobility scooter” means a vehicle that —

- (a) has 3 or more wheels and a footboard supported by the wheels;
- (b) is steered by handlebars;
- (c) has a seat;
- (d) is designed to carry an individual who is unable to walk or has difficulty in walking; and
- (e) is propelled by an electric motor that forms part of the vehicle;

“electric vehicle battery” means a battery designed to be used for a hybrid or an electric motor vehicle, but does not include a lead-acid battery;

“EMC Class A network switch” or “EMC Class B network switch” means a network switch classified as such under the Electromagnetic Compatibility of Multimedia Equipment — Emission Requirements (CISPR 32:2015), published by the International Electrotechnical Commission;

“fluorescent lamp” has the meaning given by Part 2 of the Third Schedule to the Energy Conservation (Prescribed Regulated Goods) Order 2017;

“incandescent lamp” has the meaning given by Part 2 of the Third Schedule to the Energy Conservation (Prescribed Regulated Goods) Order 2017;

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“industrial battery” means a lithium-ion or nickel metal hydride battery designed exclusively for industrial use but not for compatibility with a specific product or system only;

“LED lamp” has the meaning given by Part 2 of the Third Schedule to the Energy Conservation (Prescribed Regulated Goods) Order 2017;

“mobile telephone” means a hand-held device with the capability of using a wireless network to make voice calls based on analogue audio signals and transmit data, but does not include —

- (a) a device that can only make voice over internet protocol calls;
- (b) a cordless landline phone;
- (c) a walkie-talkie;
- (d) a satellite phone; or
- (e) a mobile telephone that is a component of another product with one or more other functions;

“modem” means an electronic device that is wired and processes data and converts signals across networks from one form to another, but does not include a cellular modem or a modem that is a component of another product with one or more other functions;

“motor vehicle” has the meaning given by section 2(1) of the Road Traffic Act (Cap. 276);

“multi-function printer” means a printer that is integrated as part of another machine or device that only has one or more of the following functions:

- (a) scanning;
- (b) photocopying;
- (c) facsimile transmission;

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- “network” means 2 or more stations used or intended to be used in communication with one another, comprising one or more transmitters and one or more receivers;
- “network hub” means an electronic device that creates a wired local area network between computer devices and operates on Layer 1 of the Open Systems Interconnection model, specified in ISO/IEC 7498-1:1994 Information technology — Open Systems Interconnection — Basic Reference Model: The Basic Model, published by the International Organisation of Standards, but does not include a network hub that is a component of another product with one or more other functions;
- “network switch” means an electronic device that creates a wired local area network between 2 or more computers and operates on Layers 2 and 3 of the Open Systems Interconnection model, specified in ISO/IEC 7498-1:1994 Information technology — Open Systems Interconnection — Basic Reference Model: The Basic Model, published by the International Organisation of Standards, but does not include an electronic device that is also a router or modem, or a network switch that is a component of another product with one or more other functions;
- “non-consumer electric vehicle battery” means an electric vehicle battery designed to be used with a motor vehicle mentioned in rule 19(*f*), (*g*) or (*h*) of the Road Traffic (Motor Vehicles, Driving Licences) Rules;
- “personal mobility device” has the meaning given by section 2(1) of the Active Mobility Act 2017 (Act 3 of 2017);
- “portable battery” means a battery that —
- (a) is sealed;
  - (b) is not designed for compatibility with specific products only; and
  - (c) can be hand-carried,

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but does not include an industrial battery or a battery that is a component of another product and not designed to be removable by the end-user;

“power-assisted bicycle” has the meaning given by section 2(1) of the Active Mobility Act 2017;

“printer” means a data-processing electronic device that accepts electronic data and transfers the information to paper, but does not include —

- (a) a printer designed to print to paper above A2 size;
- (b) a printer designed to print only to paper coated with a light-sensitive chemical;
- (c) a thermal printer;
- (d) a printer designed for a specialised industrial purpose;
- (e) a printer designed to print only to labels; or
- (f) a printer that is integrated as part of another product with one or more other functions, other than a multi-function printer;

“refrigerator” means a single-phase electrically-powered assembly consisting of —

- (a) a thermally insulated cabinet for the storage and preservation of foodstuffs or other materials above 0°C; and
- (b) a refrigerating unit operating on the vapour compression principle and arranged to extract heat from within the cabinet, whether or not with one or more freezer compartments,

but does not include —

- (c) a refrigerator with a capacity exceeding 900 litres;
- (d) a refrigerator designed for commercial display purposes;
- (e) a wine chiller;

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- (f) a walk-in refrigerator; or
  - (g) a refrigerator that is a component of another product with one or more other functions;

“router” means an electronic device that creates a local area network between 2 or more electronic devices and connects the local area network to the wide area network by translating between local area network framing and wide area network framing, but does not include —

- (a) a router that is a standalone Bluetooth receiver or transmitter; or
- (b) a router that is a component of another product with one or more other functions, other than a router that is also a network switch or a modem;

“server” means a computer that is dedicated to managing access to a centralised resource or service in a network, but does not include a server that is a component of another product with one or more other functions;

“set-top box” means an electronic device that converts digital, analogue or optical signals into a form that can be read by an audiovisual output device, but does not include a set-top box that is a component of another product with one or more other functions;

“solar photovoltaic panel” means a panel used for the generation of electric currents or electromagnetic fields from solar light and that is designed to be installed as part of a solar photovoltaic system, but does not include a solar photovoltaic panel that is a component of another product with one or more other functions;

“solar photovoltaic system” means an installation of one or more solar photovoltaic panels other than in space, that generates power that is supplied to the grid or a person’s load facilities within the person’s premises;

“specified computer” means a computer that —

- (a) has a built-in smart card reader; or

(b) is a thin client computer;

“specified router” means a router that is —

(a) classified as an EMC Class A router under the Electromagnetic Compatibility of Multimedia Equipment — Emission Requirements (CISPR 32:2015), published by the International Electrotechnical Commission; or

(b) designed to be mounted on a server rack;

“specified single-phase lamp” has the meaning given by Part 2 of the Third Schedule to the Energy Conservation (Prescribed Regulated Goods) Order 2017;

“television” means an electrical appliance —

(a) with an in-built television tuner; and

(b) that is designed primarily for the display and possible reception of television broadcast and similar services for terrestrial, cable, satellite and broadband network transmission of analogue or digital signals,

but does not include —

(c) a television designed to display by means of front or rear projection;

(d) a television designed for any industrial or specialised use;

(e) a television with an integrated chip that decodes encrypted content, designed for use in hotels, hospitals and other similar places of accommodation; or

(f) a television that is a component of another product with one or more other functions;

“thin client computer” means a computer that runs from resources stored on a central server instead of a localised hard drive, through a remote connection with a server-based computing environment;

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“walkie-talkie” means a half-duplex device that transmits data in one direction at a time;

“washing machine” means a single-phase electrical machine with at least one function that uses water for washing of textile material, but does not include —

- (a) a coin-operated or card-operated washing machine;
- (b) a washing machine that is designed to be fully programmable by the end-user;
- (c) a washing machine with a weight of 150 kg or more; or
- (d) a washing machine that is a component of another product with one or more other functions, other than a washing machine that is also a dryer;

“wireless access point” means an electronic device that connects one or more electronic devices to a local area network by converting wireless signals from the electronic device or devices into wired signals on the network, but does not include a wireless access point that is a component of another product with one or more other functions.

### **Regulated products**

3. Every product specified in the first column of the First Schedule and in the Second Schedule is a regulated product for the purposes of Part 3 of the Act, if the product is not a component of, or the product itself is not —

- (a) a product designed for military use; or
- (b) a medical device mentioned in the First Schedule to the Health Products Act (Cap. 122D), except an electric mobility scooter.

*[S 426/2021 wef 01/07/2021]*

### **Regulated consumer products**

4. Every product specified in the first column of the First Schedule is a regulated consumer product.

### **Licensed scheme thresholds**

5. For the purposes of section 12(2)(b) of the Act, the threshold specified in the second column of the First Schedule applies to the regulated consumer product or products specified opposite in the first column.

### **Determination of weight of products**

6. For the purposes of determining the weight of a regulated product supplied, the weight of any of the following is to be included:

- (a) any battery that is designed for compatibility with that product, whether the battery is removable by the end-user or not;
- (b) any cable, adaptor, remote control, keyboard, mouse or other similar peripheral item, other than a portable battery, that is supplied in connection with the regulated product.

### **Application for registration of producer of regulated product**

7. An application to register as a producer of a regulated product under section 9(2) of the Act must be made in the applicable form at the website of the Agency at <https://www.nea.gov.sg/e-waste-epr> and through the website.

### **Prescribed period to retain records**

8. For the purposes of section 18(2)(a) of the Act, the prescribed period is 5 years.

## FIRST SCHEDULE

Regulations 3, 4 and 5

### LICENSED SCHEME THRESHOLDS

<i>First column</i>	<i>Second column</i>	<i>Third column</i>
<i>Classes or types of regulated consumer products</i>	<i>Licensed scheme threshold</i>	<i>Compliance year for the purposes of which the threshold applies</i>

FIRST SCHEDULE — *continued*

1. A printer with a weight of 20 kg or less	10 tonnes — for any one class or type or for 2 or more classes or types collectively, of regulated consumer products specified in items 1 to 4	Compliance year beginning on 1 July 2021 or later
2. A consumer computer		
3. A desktop monitor		
4. A mobile telephone		
5. A router that is not a specified router	8 tonnes	Compliance year beginning on 1 July 2021 or later
6. A modem	200 kg	Compliance year beginning on 1 July 2021 or later
7. A set-top box	900 kg	Compliance year beginning on 1 July 2021 or later
8. An EMC Class B network switch	500 kg — for any one class or type or for both classes or types collectively, of regulated consumer products specified in items 8 and 9	Compliance year beginning on 1 July 2023 or later
9. A network hub with 8 or fewer ports		
10. A refrigerator	100 tonnes — for any one class or type or for 2 or more classes or types collectively, of regulated consumer products specified in items 10 to 14	Compliance year beginning on 1 July 2021 or later
11. An air-conditioner		
12. A washing machine		
13. A dryer		
14. A television		
15. An electric mobility device	0	Compliance year beginning on 1 July 2021 or later
16. A portable battery	3 tonnes	Compliance year beginning on 1 July 2021 or later

FIRST SCHEDULE — *continued*

17. A consumer electric vehicle battery	5 tonnes	Compliance year beginning on 1 July 2021 or later
18. A consumer lamp	3 tonnes	Compliance year beginning on 1 July 2021 or later

[S 293/2023 wef 01/07/2023]

## SECOND SCHEDULE

Regulation 3

## REGULATED NON-CONSUMER PRODUCTS

1. A printer with a weight above 20 kg
2. A specified computer
3. A server
4. A specified router
5. A wireless access point
6. An EMC Class A network switch
7. A network hub with more than 8 ports
8. An industrial battery
9. A non-consumer electric vehicle battery
10. A specified single-phase lamp that is an incandescent lamp with a power rating of above 100W
11. A solar photovoltaic panel

Made on 30 December 2019.

ALBERT CHUA  
*Permanent Secretary,  
Ministry of the Environment and  
Water Resources,  
Singapore.*

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