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First published in the *Government Gazette*, Electronic Edition, on 31 March 2023 at 5 pm.

## **No. S 172**

### **ENVIRONMENTAL PROTECTION AND MANAGEMENT ACT 1999**

### **ENVIRONMENTAL PROTECTION AND MANAGEMENT (VEHICULAR EMISSIONS) (AMENDMENT) REGULATIONS 2023**

In exercise of the powers conferred by sections 12(5) and 77(1) of the Environmental Protection and Management Act 1999, the National Environment Agency, with the approval of the Minister for Sustainability and the Environment, makes the following Regulations:

#### **Citation and commencement**

1.—(1) These Regulations are the Environmental Protection and Management (Vehicular Emissions) (Amendment) Regulations 2023 and, except for regulation 8, come into operation on 1 April 2023.

(2) Regulation 8 is deemed to have come into operation on 31 December 2021.

#### **Amendment of regulation 4**

2. In the Environmental Protection and Management (Vehicular Emissions) Regulations (Rg 6) (called in these Regulations the principal Regulations), in regulation 4 —

(a) in paragraph (1), replace “1 September 2017” with “1 April 2023”; and

(b) in paragraph (2), replace “1 January 2018” with “1 April 2023”.

#### **Amendment of regulation 5**

3. In the principal Regulations, in regulation 5 —

(a) replace “1 April 2022” with “1 April 2023”; and

- (b) after “level”, insert “or must conform to the standard for exhaust noise emission.”.

### Amendment of First Schedule

#### 4. In the principal Regulations, in the First Schedule —

- (a) replace paragraph 1 with —

“1. The standards for exhaust emission for new petrol driven motor vehicles (the exhaust emission of which is to be determined in accordance with the relevant document in which the standard is found) of the following classes are as follows:

<i>Class of vehicle</i>	<i>Standard for exhaust emission</i>
(a) Passenger car or taxi with engine that employs Gasoline Direct Injection technology	(i) Euro 6 standard; (ii) JPN2009 and Euro 6 PN limit; or (iii) JPN2018 and Euro 6 PN limit
(b) Passenger car or taxi with engine that does not employ Gasoline Direct Injection technology	(i) Euro 6 standard; (ii) JPN2009; or (iii) JPN2018
(c) Motor vehicle (other than a passenger car or taxi) with engine that employs Gasoline Direct Injection technology	(i) Euro 6 standard (WLTP); or (ii) JPN2018 and Euro 6 PN limit (WLTP)
(d) Motor vehicle (other than a passenger car or taxi) with engine that does not employ Gasoline Direct Injection technology	(i) Euro 6 standard (WLTP); or (ii) JPN2018

”;

- (b) in paragraph 2, delete the definitions of “Euro 6 PM and PN limits”, “JPN2009 PM limit” and “JPN2018 PM limit”;

(c) in paragraph 2, after the definition of “Euro 6 PN limit”, insert —

““Euro 6 PN limit (WLTP)” means the standard for particle numbers in exhaust emission specified in the column titled “Number of particles (PN)” in Regulation (EC) No. 715/2007, Annex I, Table 2, as amended by Commission Regulation (EU) No. 459/2012 and read with Commission Regulation (EU) No. 2017/1151;”;

(d) in paragraph 2, after the definition of “Euro 6 standard”, insert —

““Euro 6 standard (WLTP)” means the standard for exhaust emissions in Regulation (EC) No. 715/2007, Annex I, Table 2, as amended by Commission Regulation (EU) No. 459/2012 and read with Commission Regulation (EU) No. 2017/1151;”.

## **Amendment of Second Schedule**

**5. In the principal Regulations, in the Second Schedule —**

(a) replace paragraph 1 with —

“1. The standards for exhaust emission for new diesel driven motor vehicles (the exhaust emission of which is to be determined in accordance with the relevant document in which the standard is found, unless otherwise stated in this Schedule) of the following classes are as follows:

<i>Class of vehicle</i>	<i>Standard for exhaust emission</i>
(a) Passenger car or taxi	(i) Euro 6 standard for light vehicles; (ii) JPN2009 and Euro 6 PN limit; or (iii) JPN2018 and Euro 6 PN limit
(b) Motor vehicle (other than a passenger car or taxi) with gross vehicle weight not exceeding 3.5 tons	(i) Euro 6 standard for light vehicles (WLTP); or (ii) JPN2018 and Euro 6 PN limit (WLTP)

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| (c) Motor vehicle<br>(other than a<br>passenger car or<br>taxi) with gross<br>vehicle weight<br>exceeding 3.5 tons | (i) Euro VI standard for<br>heavy vehicles;<br><br>(ii) PPNLT and Euro VI<br>PM number; or<br><br>(iii) PPNLT (Alternate)<br>and Euro VI PM<br>number (Alternate) |
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- ”;

(b) in paragraph 2, after the definition of “Euro 6 PN limit”, insert —

““Euro 6 PN limit (WLTP)” means the standard for particle numbers in exhaust emission specified in the column titled “Number of particles (PN)” in Regulation (EC) No. 715/2007, Annex I, Table 2, as amended by Commission Regulation (EU) No. 459/2012 and read with Commission Regulation (EU) No. 2017/1151;” and

(c) in paragraph 2, after the definition of “Euro 6 standard for light vehicles”, insert —

““Euro 6 standard for light vehicles (WLTP)” means the standard for exhaust emissions in Regulation (EC) No. 715/2007, Annex I, Table 2, as amended by Commission Regulation (EU) No. 459/2012 and read with Commission Regulation (EU) No. 2017/1151;”.

## Replacement of Fourth Schedule

6. In the principal Regulations, replace the Fourth Schedule with —

### “FOURTH SCHEDULE

Regulations 5 and 9

#### STANDARD FOR NOISE EMISSION FOR NEW MOTOR VEHICLES

##### PART 1

1. A motor vehicle of a class described in the first column must conform to the standard for exhaust noise emission specified opposite in the second column:

<i>First column</i> <i>Class of vehicle</i>	<i>Second column</i> <i>Standard for exhaust noise emission</i>
(a) Two-wheeled motor cycle (with or without a side car) or two-wheeled scooter (with or without a side car)	<p>(i) Regulation No. 41 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of motor cycles with regard to noise (Revision 2, incorporating the 04 series of amendments to the Regulation);</p> <p>(ii) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles and read with Commission Delegated Regulation (EU) 134/2014; or</p> <p>(iii) Paragraph 1(4) of Article 40 and paragraph 1(3) of Article 252 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT THAT PRESCRIBES DETAILS OF SAFETY REGULATIONS FOR ROAD VEHICLES), as amended by the Japanese Ministry of Land, Infrastructure, Transport and Tourism</p>

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- Announcement No. 681  
dated 20 April 2016
- (b) Three-wheeled motor cycle  
or three-wheeled scooter
- (i) Directive 97/24/EC of the  
European Parliament and of  
the Council of 17 June 1997  
on certain components and  
characteristics of two or  
three-wheel motor vehicles;
- (ii) Articles 30 and 65 of the  
Safety Regulations for  
Road Vehicles as amended  
by the Ministry of  
Transport Ordinance No. 5  
of 21 February 2000 and  
No. 66 of 20 December  
1996, respectively, of  
Japan;
- (iii) Regulation No. 9 of the  
Economic Commission for  
Europe of the United  
Nations (UN/ECE) —  
Uniform provisions  
concerning the approval of  
motor cycles with regard to  
noise (Revision 3,  
incorporating the 07 series  
of amendments to the  
Regulation);
- (iv) Regulation (EU) 168/2013  
of the European Parliament  
and of the Council of  
15 January 2013 on the  
approval and market  
surveillance of two- or  
three-wheel vehicles and  
quadricycles and read with  
Commission Delegated  
Regulation (EU) 134/2014;  
or

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- (v) Paragraph 1(2) and (3) of Article 40 and paragraph 1(1) and (2) of Article 252 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT THAT PRESCRIBES DETAILS OF SAFETY REGULATIONS FOR ROAD VEHICLES), as amended by the Japanese Ministry of Land, Infrastructure, Transport and Tourism Announcement No. 681 dated 20 April 2016
- (c) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers)
- (i) Regulation No. 51 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their sound emissions (Revision 3, incorporating the 03 series of amendments to the Regulation), applying the sound level limits specified in the column titled “Phase 1” on page 17;
- (ii) Regulation (EU) 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending

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Directive 2007/46/EC and  
repealing  
Directive 70/157/EEC,  
applying the sound level  
limits specified in the  
column titled “Phase 1” on  
page 32 of Regulation  
(EU) 540/2014; or

- (iii) Paragraph 1(5) of  
Article 40 of the Japanese  
Ministry of Land,  
Infrastructure and  
Transport Announcement  
No. 619 dated 15 July 2002  
(ANNOUNCEMENT  
THAT PRESCRIBES  
DETAILS OF SAFETY  
REGULATIONS FOR  
ROAD VEHICLES), as  
amended by the Japanese  
Ministry of Land,  
Infrastructure, Transport  
and Tourism  
Announcement No. 681  
dated 20 April 2016,  
applying the sound level  
limits specified in the  
column titled “Phase 1” on  
page 17 of Regulation  
No. 51 of the Economic  
Commission for Europe of  
the United Nations  
(UN/ECE) — Uniform  
provisions concerning the  
approval of motor vehicles  
having at least four wheels  
with regard to their sound  
emissions (Revision 3,  
incorporating the 03 series  
of amendments to the  
Regulation)

## PART 2

1. A goods vehicle or bus of a class described in the first column must not emit any noise exceeding the noise level specified opposite in the second column when measured 0.5 metre from the open end of the exhaust pipe of the goods vehicle or bus; or must conform to the standard for exhaust noise emission specified opposite in the third column:

<i>First column</i>	<i>Second column</i>	<i>Third column</i>
<i>Class of vehicle</i>	<i>Noise level in Decibels (A)</i>	<i>Standard for exhaust noise emission</i>
(a) Goods vehicle or bus with gross vehicle weight not exceeding 3.5 tons	97	<p>(i) EC Council Directive 70/157/EEC of 6 February 1970 as last amended by Commission Directive 96/20/EC of 27 March 1996;</p> <p>(ii) Articles 30 and 65 of the Safety Regulations for Road Vehicles as amended by the Ministry of Transport Ordinance No. 5 of 21 February 2000 and No. 66 of 20 December 1996, respectively, of Japan;</p> <p>(iii) Regulation No. 51 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their sound emissions (Revision 2, incorporating the 02 series of amendments to the Regulation), or (Revision 3, incorporating the 03 series of amendments to the Regulation);</p>

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| <p>(b) Goods vehicle or bus with gross vehicle weight exceeding 3.5 tons</p> | <p>99</p> | <p>(iv) Regulation (EU) 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or</p> <p>(v) Paragraph 1(5) of Article 40 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT THAT PRESCRIBES DETAILS OF SAFETY REGULATIONS FOR ROAD VEHICLES), as amended by the Japanese Ministry of Land, Infrastructure, Transport and Tourism Announcement No. 681 dated 20 April 2016</p> <p>(i) EC Council Directive 70/157/EEC of 6 February 1970 as last amended by Commission Directive 96/20/EC of 27 March 1996;</p> <p>(ii) Articles 30 and 65 of the Safety Regulations for Road Vehicles as amended by the Ministry of Transport Ordinance</p> |
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- No. 5 of 21 February 2000 and No. 66 of 20 December 1996, respectively, of Japan;
- (iii) Regulation No. 51 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of motor vehicles having at least four wheels with regard to their sound emissions (Revision 2, incorporating the 02 series of amendments to the Regulation), or (Revision 3, incorporating the 03 series of amendments to the Regulation);
- (iv) Regulation (EU) 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or
- (v) Paragraph 1(5) of Article 40 of the Japanese Ministry of Land, Infrastructure and Transport Announcement No. 619 dated 15 July 2002 (ANNOUNCEMENT

THAT PRESCRIBES  
 DETAILS OF SAFETY  
 REGULATIONS FOR  
 ROAD VEHICLES), as  
 amended by the Japanese  
 Ministry of Land,  
 Infrastructure, Transport  
 and Tourism  
 Announcement No. 681  
 dated 20 April 2016  
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## Replacement of Sixth Schedule

7. In the principal Regulations, replace the Sixth Schedule with —

### “SIXTH SCHEDULE

Regulation 7(1)

#### STANDARD FOR NOISE EMISSION FOR ALL IN-USE MOTOR VEHICLES OTHER THAN LICENSED MOTOR VEHICLES REGISTERED BEFORE 1 JULY 1999

1. A motor vehicle of any of the following classes must not emit any noise exceeding the noise level specified against that class of motor vehicle when measured 0.5 metre from the open end of the exhaust pipe of the vehicle:

<i>First column</i>	<i>Second column</i>
<i>Class of vehicle</i>	<i>Noise level in Decibels (A)</i>
(a) Two-wheeled motor cycle (with or without a side car) or two-wheeled scooter (with or without a side car) registered in Singapore on or after 1 April 2023	+5 above the reference value for the motor vehicle
(b) Two-wheeled motor cycle (with or without a side car) or two-wheeled scooter (with or without a side car) —	The higher of the following:
(i) registered in Singapore before 1 April 2023; or	(i) 99;
(ii) registered elsewhere	(ii) +5 above the reference value for the motor vehicle

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| (c) Three-wheeled motor cycle or three-wheeled scooter registered in Singapore on or after 1 April 2023  | +5 above the reference value for the motor vehicle  |
| (d) Three-wheeled motor cycle or three-wheeled scooter —<br>(i) registered in Singapore before 1 April 2023; or<br>(ii) registered elsewhere   | The higher of the following:<br>(i) 99;<br>(ii) +5 above the reference value for the motor vehicle  |
| (e) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers) registered in Singapore on or after 1 April 2023                                      | +5 above the reference value for the motor vehicle  |
| (f) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers) —<br>(i) registered in Singapore before 1 April 2023; or<br>(ii) registered elsewhere | The higher of the following:<br>(i) 103;<br>(ii) +5 above the reference value for the motor vehicle |
| (g) Goods vehicle or bus with gross vehicle weight not exceeding 3.5 tons  | The higher of the following:<br>(i) 103;<br>(ii) +5 above the reference value for the motor vehicle |
| (h) Goods vehicle or bus with gross vehicle weight exceeding 3.5 tons  | The higher of the following:<br>(i) 107;<br>(ii) +5 above the reference value for the motor vehicle |

2. In addition, a motor vehicle of any of the following classes, for which a major modification mentioned in rule 12B(2) of the Road Traffic (Motor Vehicles, Registration and Licensing) Rules (R 5) is made involving any modification or alteration of the exhaust system of the motor vehicle, must conform to any of the standards for exhaust noise emission specified against that class of motor vehicle:

<i>First column</i>	<i>Second column</i>
<i>Class of vehicle</i>	<i>Standard for exhaust noise emission</i>
<p>(a) Two-wheeled or three-wheeled motor cycle (with or without a side car) or two-wheeled or three-wheeled scooter (with or without a side car) registered in Singapore before 1 April 2023</p>	<p>(i) Regulation No. 92 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles (Revision 1 - Amendment 2, incorporating the 01 series of amendments to the Regulation);</p> <p>(ii) Directive 97/24/EC of the European Parliament and of the Council of 17 June 1997 on certain components and characteristics of two or three-wheel motor vehicles;</p> <p>(iii) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles; or</p>

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- (b) Two-wheeled motor cycle (with or without a side car) or two-wheeled scooter (with or without a side car) registered in Singapore on or after 1 April 2023
- (iv) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112: Technical Standard for Aftermarket Silencers
- (i) Regulation No. 92 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles (Revision 1 – Amendment 2, incorporating the 01 series of amendments to the Regulation);
- (ii) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles and read with Commission Delegated Regulation (EU) 134/2014; or
- (iii) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112 Section II: Technical Standard for Aftermarket Silencers

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- (c) Three-wheeled motor cycle or three-wheeled scooter registered in Singapore on or after 1 April 2023
- (i) Regulation No. 92 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of non-original replacement exhaust silencing systems (RESS) for motorcycles, mopeds and three-wheeled vehicles (Revision 1 – Amendment 2, incorporating the 01 series of amendments to the Regulation);
- (ii) Directive 97/24/EC of the European Parliament and of the Council of 17 June 1997 on certain components and characteristics of two or three-wheel motor vehicles;
- (iii) Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles and read with Commission Delegated Regulation (EU) 134/2014; or
- (iv) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112: Technical Standard for Aftermarket Silencers

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- (d) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers), or goods vehicle or bus registered in Singapore before 1 April 2023
- (i) Regulation No. 59 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of replacement silencing systems (Revision 1, incorporating the 01 series of amendments to the Regulation), or (Revision 2, incorporating the 02 series of amendments to the Regulation);
- (ii) EC Council Directive 70/157/EEC of 6 February 1970 as last amended by Commission Directive 96/20/EC of 27 March 1996;
- (iii) EU 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or
- (iv) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112: Technical Standard for Aftermarket Silencers

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- (e) Motor car, taxi or station wagon (whether for passengers only or for goods and passengers) registered in Singapore on or after 1 April 2023
- (i) Regulation No. 59 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of replacement silencing systems (Revision 2, incorporating the 02 series of amendments to the Regulation);
- (ii) EU 540/2014 of the European Parliament and of the Council of 16 April 2014 on the sound level of motor vehicles and of replacement silencing systems, and amending Directive 2007/46/EC and repealing Directive 70/157/EEC; or
- (iii) Automobile Type Approval Handbook for Japanese Certification (Blue Book) 11-3-112 Attachment 112 Section II: Technical Standard for Aftermarket Silencers

3. In this Schedule —

“exhaust system” has the meaning given by rule 106 of the Road Traffic (Motor Vehicles, Construction and Use) Rules (R 9);

“reference value” means —

- (a) in relation to a motor vehicle registered in Singapore — the stationary noise level specified in the documents accepted by the Registrar of Vehicles for the purpose of the grant of batch type-approval, type-approval or modified type-approval (as the case may be) under rule 3D of the Road Traffic (Motor Vehicles, Registration and Licensing) Rules in respect of that motor vehicle or model of motor vehicle, as the case may be; and

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- (b) in relation to a motor vehicle registered elsewhere — the stationary noise level for the motor vehicle specified in either of the following:
- (i) a certificate from the manufacturer of the motor vehicle used for the purpose of the grant of type-approval under the laws of the country in which the vehicle is manufactured;
  - (ii) the specification plate or statutory plate affixed to the motor vehicle for compliance with —
    - (A) paragraphs 6.1 and 6.2 of Regulation No. 41 of the Economic Commission for Europe of the United Nations (UN/ECE) — Uniform provisions concerning the approval of motor cycles with regard to noise (Revision 2, incorporating the 04 series of amendments to the Regulation);
    - (B) Article 39 of Regulation (EU) 168/2013 of the European Parliament and of the Council of 15 January 2013 on the approval and market surveillance of two- or three-wheel vehicles and quadricycles and read with Commission Implementing Regulation EU No. 901/2014; or
    - (C) the law of the country in which the motor vehicle is registered.”.

### **Miscellaneous amendments**

#### **8. In the principal Regulations —**

- (a) in the following provisions, replace “(Cap. 276)” with “1961”:
- Regulation 2, definitions of “goods vehicle”, “motor vehicle”, “owner” and “public service vehicle”
  - Regulation 2, definition of “registered in Singapore”
  - Regulation 21A(5)(c);
- (b) in regulation 2, in the definitions of “vehicle examiner” and “vehicle licence”, after “Road Traffic Act”, insert “1961”;

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- (c) in regulation 2, in the definition of “vehicle testing station”, replace “(Cap. 276, R 21)” with “(R 21)”; and
- (d) in the Fifth Schedule, in paragraph 6, in the definitions of “classic vehicle”, “normal vintage vehicle”, “restricted vintage vehicle” and “revised use vintage vehicle”, replace “(Cap. 276, R 5)” with “(R 5)”.

*[G.N. Nos. S 625/2008; S 564/2010; S 301/2012;  
S 765/2013; S 766/2013; S 199/2014; S 609/2014;  
S 372/2016; S 26/2017; S 396/2017; S 480/2017;  
S 781/2017; S 189/2018; S 420/2018; S 877/2018;  
S 57/2019; S 322/2019; S 1006/2021; S 249/2022;  
S 668/2022]*

Made on 29 March 2023.

LEE CHUAN SENG  
*Chairperson,  
National Environment Agency,  
Singapore.*

[C030/01/118; AG/LEGIS/SL/94A/2020/2 Vol. 1]

(To be presented to Parliament under section 77(3) of the Environmental Protection and Management Act 1999).