

		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
		(NOx or NOx+NMHC / CO / PM (, PN)) or (NOx / HC / CO / PM (, PN)) Unit: g/kWh												
U.S.A	0kW ≤ 8kW	Tier 4 7.5/8.0/0.40 [G2+NRTC]												
	8kW ≤ 19kW	Tier 4 7.5/6.6/0.40 [G2+NRTC]												
	19kW ≤ 37kW	Tier 4 4.7/5.5/0.03 [C1+NRTC]												
	37kW ≤ 56kW	Tier 4 4.7/5.0/0.03 [C1+NRTC]												
	56kW ≤ 75kW	Tier 4 0.40/0.19/5.0/0.02 [C1+NRTC]												
	75kW ≤ 130kW	Tier 4 0.40/0.19/5.0/0.02 [C1+NRTC]												
	130kW ≤ 560kW	Tier 4 0.40/0.19/3.5/0.02 [C1+NRTC]												
	(EPA APU)		Phase 1 (optional) PM=0.15g/kWh				Phase 1 PM=0.15g/kWh				Phase 2 PM=0.02g/kWh or retrofit DPF			
	※APU: Auxiliary Power Unit (not to power truck)													
	(CARB TRU)	(in-use reg.)7yrs after vehicle MY ULETRU(PM=0.02g/kWh)												
※TRU: Transport Refrigeration Unit														
EU	0kW ≤ 8kW	Stage V 7.50/8.00 /0.40 [G2 or C1]												
	8kW ≤ 19kW	Stage V 7.50/6.60/0.40 [G2 or C1]												
	19kW ≤ 37kW	Stage IIIA 7.5/5.5/0.6 [C1]			Stage V 4.70/5.00/0.015, 1×10 ¹² [C1+NRTC]									
	37kW ≤ 56kW	Stage IIIB 4.7/5.0/0.025 [C1+NRTC]			Stage V 4.70/5.00/0.015, 1×10 ¹² [C1+NRTC]									
	56kW ≤ 75kW	Stage IV 0.4/0.19/5.0/0.025 [C1+NRTC]			Stage V 0.40/0.19/5.00/0.015, 1×10 ¹² [C1+NRTC]									
	75kW ≤ 130kW	Stage IV 0.4/0.19/5.0/0.025 [C1+NRTC]			Stage V 0.40/0.19/5.00/0.015, 1×10 ¹² [C1+NRTC]									
	130kW ≤ 560kW	Stage IV 0.4/0.19/3.5/0.025 [C1+NRTC]			Stage V 0.40/0.19/3.50/0.015, 1×10 ¹² [C1+NRTC]									
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
Japan	< 19kW	Voluntary emission regulations Tier 2 (LEMA) Tier 4 equivalent												
	8kW < 19kW	Designation System of the Low Emission Construction Machineries Tier 3 7.5/5.0/0.8, 40(smoke[%])[C1]												
	19kW ≤ 37kW	Designation System of the Low Emission Construction Machineries Tier 3 6.0/1.0/5.0/0.4, 40(smoke[%])[C1]												
	37kW ≤ 56kW	Designation System of the Low Emission Construction Machineries Tier 3 4.0/0.7/5.0/0.3, 35(smoke[%])[C1]												
	56kW ≤ 75kW	Designation System of the Low Emission Construction Machineries Tier 3 4.0/0.7/5.0/0.25, 30(smoke[%])[C1]												
	75kW ≤ 130kW	Designation System of the Low Emission Construction Machineries Tier 3 3.6/0.4/5.0/0.2, 25(smoke[%])[C1]												
	19kW ≤ 37kW	on/off 2014 Regulation 4.0/0.7/5.0/0.03 [C1+NRTC] ,0.5(smoke[m ⁻¹])※												
	37kW ≤ 56kW	on/off 2014 Regulation 4.0/0.7/5.0/0.025 [C1+NRTC] ,0.5(smoke[m ⁻¹])※												
	56kW ≤ 75kW	on/off 2014 Regulation 0.4/0.19/5.0/0.02 [C1+NRTC] ,0.5(smoke[m ⁻¹])※												
	75kW ≤ 130kW	on/off 2014 Regulation 0.4/0.19/5.0/0.02 [C1+NRTC] ,0.5(smoke[m ⁻¹])※												
130kW ≤ 560kW	on/off 2014 Regulation 0.4/0.19/3.5/0.02 [C1+NRTC] ,0.5(smoke[m ⁻¹])※													
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
China	0kW ≤ 19kW	Stage III 7.5/5.5/0.60 [G2]												
	19kW ≤ 37kW	Stage III 7.5/5.5/0.60 [C1]												
	37kW ≤ 56kW	Stage III 4.7/5.0/0.40 [C1]												
	56kW ≤ 75kW	Stage III 4.7/5.0/0.40 [C1]												
	75kW ≤ 130kW	Stage III 4.0/5.0/0.30 [C1]												
	130kW ≤ 560kW	Stage III 4.0/3.5/0.20 [C1]												
Beijing	0kW ≤ 8kW	Stage IV 7.5/5.5/0.6 [(G2 or C1)+NRTC]												
	8kW ≤ 19kW	Stage IV 7.5/5.5/0.6 [(G2 or C1)+NRTC]												
	19kW ≤ 37kW	Stage IV 7.5/5.5/0.6 [C1+NRTC]												
	37kW ≤ 56kW	Stage IV 4.7/5.0/0.025 [C1+NRTC]												
	56kW ≤ 75kW	Stage IV 3.3/0.19/ 5.0/0.025 [C1+NRTC]												
	75kW ≤ 130kW	Stage IV 3.3/0.19/ 5.0/0.025 [C1+NRTC]												
130kW ≤ 560kW	Stage IV 3.3/0.19/ 5.0/0.025 [C1+NRTC]													
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
Korea	0kW ≤ 8kW(Const.)	Stage IV 7.5/8.0/0.4 [G2+NRTC]												
	8kW ≤ 19kW(Const.)	Stage IV 7.5/6.6/0.4 [G2+NRTC]												
	19kW ≤ 37kW(Const.)	Stage IV 4.7/5.5/0.03 [C1+NRTC]												
	37kW ≤ 56kW(Const.)	Stage IV 4.7/5.0/0.03 [C1+NRTC]												
	56kW ≤ 130kW(Const.)	Stage IV 0.4/0.19/5.0/0.025 [C1+NRTC]												
	130kW ≤ 560kW(Const.)	Stage IV 0.4/0.19/3.5/0.025 [C1+NRTC]												
	0kW ≤ 8kW(Ag.)	Stage IV 7.5/8.0/0.4 [G2+NRTC]												
	8kW ≤ 19kW(Ag.)	Stage IV 7.5/6.6/0.4 [G2+NRTC]												
	19kW ≤ 37kW(Ag.)	Stage IV 4.7/5.5/0.03 [C1+NRTC]												
	37kW ≤ 56kW(Ag.)	Stage IV 4.7/5.0/0.03 [C1+NRTC]												
56kW ≤ 130kW(Ag.)	Stage IV 0.4/0.19/5.0/0.025 [C1+NRTC]													
130kW ≤ 560kW(Ag.)	Stage IV 0.4/0.19/3.5/0.025 [C1+NRTC]													
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
India	0kW ≤ 8kW (Ag.)	Bharat Stage IIIA 8.5/5.5/0.80 [C1]												
	8kW ≤ 19kW(Ag.)	Bharat Stage IIIA 8.5/5.5/0.80 [C1]												
	19kW ≤ 37kW(Ag.)	Bharat Stage IIIA 7.5/5.5/0.60 [C1]												
	37kW ≤ 56kW(Ag.)	Bharat Stage IIIA 4.7/5.0/0.40 [C1]												
	56kW ≤ 75kW(Ag.)	Bharat Stage IIIA 4.7/5.0/0.40 [C1]												
	75kW ≤ 130kW(Ag.)	Bharat Stage IIIA 4.0/5.0/0.30 [C1]												
	130kW ≤ 560kW(Ag.)	Bharat Stage IIIA 4.0/3.5/0.20 [C1]												
	0kW ≤ 8kW (Const.)	Bharat Stage III 7.5/8.0/0.80 [C1]												
	8kW ≤ 19kW(Const.)	Bharat Stage III 7.5/6.6/0.80 [C1]												
	19kW ≤ 37kW(Const.)	Bharat Stage III 7.5/5.5/0.60 [C1]												
37kW ≤ 56kW(Const.)	Bharat Stage III 4.7/5.0/0.40 [C1]													
56kW ≤ 75kW(Const.)	Bharat Stage III 4.7/5.0/0.40 [C1]													
75kW ≤ 130kW(Const.)	Bharat Stage III 4.0/5.0/0.30 [C1]													
130kW ≤ 560kW(Const.)	Bharat Stage III 4.0/3.5/0.20 [C1]													
0kW ≤ 19kW(Gen set)	CPCB 2 7.5/3.5/0.3 [D2]													
19kW ≤ 75kW(Gen set)	CPCB 2 4.7/3.5/0.3 [D2]													
75kW ≤ 800kW(Gen set)	CPCB 2 4.7/3.5/0.2 [D2]													
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
Brazil	19kW ≤ 37kW(Ag.)	Proconve MAR-I 7.5 /5.5 /0.6 [C1]												
	37kW ≤ 56kW(Ag.)	Proconve MAR-I 4.7/5.0/0.4 [C1]												
	56kW ≤ 75kW(Ag.)	Proconve MAR-I 4.7/5.0/0.4 [C1]												
	75kW ≤ 130kW(Ag.)	Proconve MAR-I 4.0/5.0/0.3 [C1]												
	130kW ≤ 560kW(Ag.)	Proconve MAR-I 4.0/3.5/0.2 [C1]												
	19kW ≤ 37kW(Const.)	Proconve MAR-I 7.5 /5.5 /0.6 [C1]												
	37kW ≤ 56kW(Const.)	Proconve MAR-I 4.7/5.0/0.4 [C1]												
	56kW ≤ 75kW(Const.)	Proconve MAR-I 4.7/5.0/0.4 [C1]												
	75kW ≤ 130kW(Const.)	Proconve MAR-I 4.0/5.0/0.3 [C1]												
	130kW ≤ 560kW(Const.)	Proconve MAR-I 4.0/3.5/0.2 [C1]												
Chile	19kW ≤ 37kW	Stage IIIA equivalent												
	37kW ≤ 56kW	Stage IIIA equivalent												
	56kW ≤ 75kW	Stage IIIA equivalent												
	75kW ≤ 130kW	Stage IIIA equivalent												
	130kW ≤ 560kW	Stage IIIA equivalent												
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
Australia NSW	19kW ≤ 37kW	Tier 3 equivalent												
	37kW ≤ 56kW	Tier 3 equivalent												
	56kW ≤ 75kW	Tier 3 equivalent												
	75kW ≤ 130kW	Tier 3 equivalent												
	130kW ≤ 560kW	Tier 3 equivalent												
※Items purchased by the government of NSW(New South Wales State)														
Turkey	19kW ≤ 37kW	Stage IIIA equivalent												
	37kW ≤ 56kW	Stage IIIA equivalent												
	56kW ≤ 75kW	Stage IIIA equivalent												
	75kW ≤ 130kW	Stage IIIA equivalent												
	130kW ≤ 560kW	Stage IIIA equivalent												
Indonesia	18kW ≤ 37kW													
	37kW ≤ 75kW													
	75kW ≤ 130kW													
	130kW ≤ 560kW													
South Africa	19kW ≤ 37kW	Stage IIIA equivalent												
	37kW ≤ 75kW	Stage IIIA equivalent												
	75kW ≤ 130kW	Stage IIIA equivalent												
	130kW ≤ 560kW	Stage IIIA equivalent												
Morocco	18kW ≤ 37kW	Stage II equivalent												
	37kW ≤ 75kW	Stage II equivalent												
	75kW ≤ 130kW	Stage II equivalent												
	130kW ≤ 560kW	Stage II equivalent												
		2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027~	
(NOx or NOx+NMHC / CO / PM (, PN)) or (NOx / HC / CO / PM (, PN)) Unit: g/kWh														
NOTE: Depending on regulation, smoke requirement and/or D2 cycle for Gen.set may be applied.														