

Electric Bus Market by Propulsion (BEV, FCEV), Battery (NMC, LFP, NCA, Other), Length (<9m, 9-14m, >14m), Seating Capacity, Range, Battery Capacity, Power Output, Level of Autonomy, Application, Component, Consumer and Region - Global Forecast to 2030

Market Report | 2023-05-23 | 322 pages | MarketsandMarkets

AVAILABLE LICENSES:

- Single User \$4950.00
- Multi User \$6650.00
- Corporate License \$8150.00
- Enterprise Site License \$10000.00

Report description:

The electric bus market is largely driven by decreased emission limits in upcoming emission regulations and increased demand for sustainable mobility. However, as this market is at its initial growth phase, the major restraint faced by this industry is the higher cost of electric buses than conventional diesel buses due to the high cost of batteries. The biggest challenge for this market is safety concerns and the low range associated with batteries.

"Above 400 kWh is estimated to be the fastest growing battery capacity for electric buses."

Electric buses usually offer the above 400 kWh battery capacity range for intercity or long-distance commutes. The developments in battery technologies and the reduction in prices of batteries have positively impacted the growth of above 400 kWh batteries. In their product offerings, many leading OEMs have introduced electric buses with above 400 kWh battery capacity. For instance, in 2021, AB Volvo (Germany) launched its electric bus BZL Electric with a battery capacity of 470 kWh.

The above 400 kWh battery capacity segment is projected to be the fastest-growing battery segment during the forecast period. Asia Pacific leads the above 400 kWh segment of the electric bus market. This is mainly because of the region's focus on R&D in battery technologies. It is also expected that the declining battery prices and the ongoing innovations in battery compositions will drive market growth in this region during the forecast period.

The above 200 miles range electric buses will be the fastest-growing market.

The incorporation of electric buses in long-distance commutes is gradually increasing, and electric bus manufacturers have

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

recognized the need for electric buses with a higher range per charge. Hence, electric buses above 200 miles are expected to be the fastest-growing market over the forecast period. The key reason is - increased R&D in battery technologies by leading manufacturers and OEMs. Manufacturers are actively developing batteries that offer a higher range. For instance, Proterra's (US) fifth-generation battery-electric transit bus features a new streamlined vehicle design, maximizing the energy stored onboard the vehicle to increase power and range up to 329 miles. The Proterra ZX5+ model can travel up to 240 miles with a 440-kWh battery on a single charge.

North America is expected to command the above 200 miles segment during the forecast period. This is mainly because the region has a relatively more developed charging infrastructure, which aids the easier incorporation of electric buses in long-distance commutes. Many North American cities and transit agencies have installed high-capacity charging stations along major transit corridors to support the deployment of electric buses. For instance, the Toronto Transit Commission has installed ten fast-charging stations along a busy transit corridor. Furthermore, many North American OEMs have product offerings above 200 miles of range, further driving the growth of electric buses with above 200 miles range.

North America is expected to be the fastest growing second largest electric bus market.

North America is home to major electric bus manufacturers and is renowned for innovations, cutting-edge R&D, and technological advancements in electric buses. Government support through incentives and tax benefits, the presence of individual investors, and technological edge drive the North American electric bus market. Robust infrastructure, improved power grid, government support, and increased adoption have enabled OEMs to develop electric buses and coaches of varying specifications. For instance, in September 2021, BYD (China) announced that it would build battery-electric buses for Tampa International Airport in Florida at the company's US Coach & Bus factory in Lancaster, California.

North America has many OEMs, such as Proterra, NFI Group, and Blue Bird Corporation, which provide innovative electric buses incorporated with advanced technologies. The increasing demand for zero-emission public transport will further boost the North American electric bus market. Many policies have been drafted to promote the adoption of electric buses in the region. Toronto has announced that it will convert 50% of its fleets into electric buses by 2050.

The US is North America's largest and fastest-growing market for electric buses. The country has a well-developed power grid, charging infrastructure, and a strong economy. In September 2021, Capital Metro in Austin, Texas, approved a plan to purchase 26 40-foot Proterra ZX5 Max electric transit buses. Government mandates and the willingness to adopt new technologies would fuel the US electric bus market. Canada also has schemes and funding by the government that will encourage private fleets to adopt electric buses and coaches. Such government schemes are driving the North American electric bus market.

Breakdown of primaries

The study contains various industry experts' insights, from component suppliers to Tier 1 companies and OEMs. The break-up of the primaries is as follows:

-□By Company Type: OEMs - 80%, Tier I/Tier II players - 10%

-□By Designation: C level - 70%, Others- 30%

-□By Region: Asia Pacific - 70%, Europe - 20%, North America - 10%

The key players in the Electric bus market are BYD (China), Yutong (China), Proterra (US), CAF (Solaris) (Spain), VDL Groep (Netherlands), and AB Volvo (Sweden). The key strategies adopted by major companies to sustain their position in the market are expansions, contracts and agreements, and partnerships.

Research Coverage

Electric Bus Market By Propulsion (BEV, FCEV), Battery (NMC, LFP, NCA, Other), Length (<9m, 9-14m, >14m), Seating Capacity, Range, Battery Capacity, Power Output, Level of Autonomy, Application, Component, Consumer and Region - Global Forecast to 2030

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall electric bus market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and to plan suitable go-to-market strategies. The report also

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights on the following pointers:

- Analysis of key drivers (The increasing need for sustainable mass transit solutions and the need to reduce the GHG emissions), restraints (Safety Concerns in EV batteries and high development costs), opportunities (Transition towards hydrogen fuel cell electric mobility, electric bus as a service), and challenges (High cost of developing charging infrastructure) influencing the growth of the electric bus market

- Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the electric bus market

- Market Development: Comprehensive information about lucrative markets - the report analyses the electric bus market across varied regions

- Market Diversification: Exhaustive information about new products & services, untapped geographies, recent developments, and investments in the electric bus market

- Competitive Assessment: In-depth assessment of market shares, growth strategies and service offerings of leading players like BYD (Build Your Dreams) (China), Proterra (US), CRRC Electric (China), Yutong (China), and AB Volvo (Sweden), among others in the electric bus market

Table of Contents:

1□INTRODUCTION□	39
1.1□STUDY OBJECTIVES□	39
1.2□MARKET DEFINITION□	39
1.3□STUDY SCOPE□	40
1.3.1□MARKETS COVERED□	40
FIGURE 1□ELECTRIC BUS MARKET SEGMENTATION□	40
1.3.2□REGIONS COVERED□	41
1.3.3□YEARS CONSIDERED□	41
1.4□INCLUSIONS AND EXCLUSIONS□	42
TABLE 1□INCLUSIONS AND EXCLUSIONS□	42
1.5□CURRENCY CONSIDERED□	43
1.6□UNITS CONSIDERED□	43
1.7□STAKEHOLDERS□	43
1.8□SUMMARY OF CHANGES□	44
2□RESEARCH METHODOLOGY□	45
2.1□RESEARCH DATA□	45
FIGURE 2□RESEARCH DESIGN□	45
FIGURE 3□RESEARCH DESIGN MODEL□	46
2.1.1□SECONDARY DATA□	46
2.1.1.1□Key secondary sources□	46
2.1.1.2□Key data from secondary sources□	48
2.1.2□PRIMARY DATA□	48
FIGURE 4□BREAKDOWN OF PRIMARY INTERVIEWS□	49

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

2.1.2.1	Sampling techniques and data collection methods	49
2.1.2.2	Primary participants	50
2.2	MARKET ESTIMATION METHODOLOGY	50
FIGURE 5	RESEARCH METHODOLOGY: HYPOTHESIS BUILDING	51
2.3	MARKET SIZE ESTIMATION	52
2.3.1	BOTTOM-UP APPROACH	52
FIGURE 6	BOTTOM-UP APPROACH	52
FIGURE 7	BOTTOM-UP APPROACH METHODOLOGY	52
2.3.2	TOP-DOWN APPROACH	53
FIGURE 8	TOP-DOWN APPROACH	53
FIGURE 9	MARKET SIZE ESTIMATION NOTES	53
2.4	DATA TRIANGULATION	54
FIGURE 10	DATA TRIANGULATION	54
2.5	FACTOR ANALYSIS	55
FIGURE 11	MARKET GROWTH PROJECTIONS FROM DEMAND-SIDE DRIVERS AND OPPORTUNITIES	55
FIGURE 12	KEY FACTORS IMPACTING MARKET	55
2.6	RECESSION IMPACT ANALYSIS	56
2.7	RESEARCH ASSUMPTIONS	56
2.8	RESEARCH LIMITATIONS	57
3	EXECUTIVE SUMMARY	59
FIGURE 13	REPORT SUMMARY	59
3.1	KEY FACTORS DRIVING MARKET	60
FIGURE 14	ELECTRIC BUS MARKET - KEY DRIVING FACTORS	60
FIGURE 15	ELECTRIC BUS MARKET, BY REGION, 2023 VS. 2030 (UNITS)	62
4	PREMIUM INSIGHTS	64
4.1	ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN ELECTRIC BUS MARKET	64
FIGURE 16	INCREASING DEMAND FOR FUEL-EFFICIENT AND EMISSION-FREE VEHICLES TO DRIVE MARKET	64
4.2	ELECTRIC BUS MARKET, BY CONSUMER	64
FIGURE 17	GOVERNMENT TO SURPASS PRIVATE SEGMENT IN 2030	64
4.3	ELECTRIC BUS MARKET, BY PROPULSION	65
FIGURE 18	BEVS TO DOMINATE ELECTRIC BUS MARKET IN 2030	65
4.4	ELECTRIC BUS MARKET, BY RANGE	65
FIGURE 19	UP TO 200 MILES SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2030	65
4.5	ELECTRIC BUS MARKET, BY LENGTH OF BUS	66
FIGURE 20	9-14 M TO EXCEED OTHER SEGMENTS FROM 2023 TO 2030	66
4.6	ELECTRIC BUS MARKET, BY APPLICATION	66
FIGURE 21	INTRACITY TO SECURE MAXIMUM SHARES DURING FORECAST PERIOD	66
4.7	ELECTRIC BUS MARKET, BY POWER OUTPUT	67
FIGURE 22	UP TO 250 KW SEGMENT TO COMMAND LEADING MARKET SHARE FROM 2023 TO 2030	67
4.8	ELECTRIC BUS MARKET, BY COMPONENT	67
FIGURE 23	BATTERIES TO DOMINATE OTHER COMPONENTS IN 2030	67
4.9	ELECTRIC BUS MARKET, BY BATTERY CAPACITY	68
FIGURE 24	UP TO 400 KWH SEGMENT TO HOLD SUPREMACY IN 2030	68
4.10	ELECTRIC BUS MARKET, BY BATTERY TYPE	68
FIGURE 25	LFP BATTERIES TO HOLD HIGHEST MARKET SHARE DURING FORECAST PERIOD	68
4.11	ELECTRIC BUS MARKET, BY SEATING CAPACITY	69
FIGURE 26	ABOVE 70 SEATS TO BE FASTEST-GROWING SEGMENT FROM 2023 TO 2030	69

4.12	ELECTRIC BUS MARKET, BY REGION	69
FIGURE 27	ASIA PACIFIC TO ACCOUNT FOR LARGEST MARKET SHARE DURING FORECAST PERIOD	69
5	MARKET OVERVIEW	70
5.1	INTRODUCTION	70
5.2	MARKET DYNAMICS	71
5.2.1	DRIVERS	71
5.2.1.1	Rising GHG emissions	71
TABLE 2	POTENTIAL MARKETS FOR NEW ZERO-EMISSION BUSES ACROSS EUROPE	73
5.2.1.2	Increasing demand for emission-free vehicles	73
FIGURE 28	DECLINE IN BATTERY PRICE/KWH, 2010-2030	74
5.2.2	RESTRAINTS	75
5.2.2.1	Safety concerns in EV batteries and high development cost	75
FIGURE 29	OUTLINE OF BATTERY SAFETY ARCHITECTURE	76
FIGURE 30	AVERAGE COST OF DIESEL BUS VS. ELECTRIC BUS	76
5.2.3	OPPORTUNITIES	77
5.2.3.1	Transition toward hydrogen fuel cell electric mobility	77
FIGURE 31	FUEL CELL PRODUCT LIFECYCLE	78
FIGURE 32	ELECTRIC BUS AS A SERVICE	79
5.2.4	CHALLENGES	80
5.2.4.1	High cost of developing charging infrastructure	80
5.3	ECOSYSTEM ANALYSIS	81
FIGURE 33	ELECTRIC BUS MARKET: NEURAL SYSTEM	82
FIGURE 34	ELECTRIC BUS MARKET: ECOSYSTEM ANALYSIS	83
5.3.1	OEMS	83
5.3.2	RAW MATERIAL SUPPLIERS	83
5.3.3	COMPONENT MANUFACTURERS	84
5.3.4	CHARGING INFRASTRUCTURE	84
TABLE 3	ELECTRIC BUS MARKET: ROLE IN ECOSYSTEM	84
5.4	VALUE CHAIN ANALYSIS	86
FIGURE 35	ELECTRIC BUS MARKET: VALUE CHAIN ANALYSIS	86
5.4.1	TOTAL COST OF OWNERSHIP OF DIESEL VS. ELECTRIC BUSES	86
FIGURE 36	COMPARISON OF TCO: 12 M ELECTRIC VS. 12 M DIESEL BUS	86
5.5	PRICING ANALYSIS	88
5.5.1	BY OEM	88
TABLE 4	ELECTRIC BUS MARKET: GLOBAL AVERAGE PRICE (USD), BY OEM, 2023	88
5.5.2	BY INTERCITY BUSES	89
TABLE 5	ELECTRIC BUS MARKET: GLOBAL AVERAGE PRICE (USD), BY VEHICLE TYPE, 2023	89
5.5.3	BY REGION	89
TABLE 6	ELECTRIC BUS MARKET: GLOBAL AVERAGE PRICE (USD), BY REGION, 2023	89
5.5.4	BY LENGTH OF BUS	89
TABLE 7	ELECTRIC BUS VS. DIESEL BUS PRICE (USD), BY LENGTH OF BUS, 2023	89
5.6	PATENT ANALYSIS	90
5.7	REGULATORY LANDSCAPE	93
5.7.1	NORTH AMERICA	93
TABLE 8	NORTH AMERICA: POLICIES AND INITIATIVES SUPPORTING HYDROGEN-POWERED VEHICLES AND INFRASTRUCTURE	93
5.7.2	EUROPE	94
TABLE 9	EUROPE: POLICIES AND INITIATIVES SUPPORTING HYDROGEN-POWERED VEHICLES AND INFRASTRUCTURE	94

5.7.3	ASIA PACIFIC	95
TABLE 10	ASIA PACIFIC: POLICIES AND INITIATIVES SUPPORTING HYDROGEN-POWERED VEHICLES AND INFRASTRUCTURE	95
5.7.4	REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS, BY REGION	96
TABLE 11	NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	96
TABLE 12	EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	97
TABLE 13	ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS	98
5.8	CASE STUDY ANALYSIS	98
5.8.1	ASSESSMENT OF INVESTMENT IN ELECTRIC BUSES	98
5.8.2	COMPLETE TRANSITION TO ELECTRIC BUSES IN SHENZHEN, CHINA	99
5.8.3	BATTERY CHARGING INFRASTRUCTURE FOR BUS OPERATOR STAGECOACH	99
5.8.4	OPEX DEPLOYMENT FOR ELECTRIC BUSES IN PUBLIC TRANSPORT SYSTEM	100
FIGURE 37	OPEX-BASED ELECTRIC BUS DEPLOYMENT	100
5.8.5	ELECTRIC BUS DEPLOYMENT WITH INFRASTRUCTURAL CHANGES	101
FIGURE 38	ELECTRIFICATION OF DOHA PUBLIC TRANSPORT IN 2022	101
5.8.6	ASSESSMENT OF INVESTMENT IN ELECTRIC BUSES IN HELSINKI, FINLAND	102
5.9	TRENDS AND DISRUPTIONS	103
FIGURE 39	TRENDS AND DISRUPTIONS IN ELECTRIC BUS MARKET	103
5.10	TECHNOLOGY ANALYSIS	103
5.10.1	FUTURE TECHNOLOGY OVERVIEW	104
FIGURE 40	ELECTRIC BUS MARKET: FUTURE TECHNOLOGY OVERVIEW	104
5.10.2	TECHNOLOGY ROADMAP	105
FIGURE 41	ELECTRIC BUS MARKET: TECHNOLOGY ROADMAP	105
5.10.3	INNOVATIVE CHARGING SOLUTIONS	105
5.10.3.1	Off-board top-down pantograph charging system	106
5.10.3.2	On-board bottom-up pantograph charging system	106
5.10.3.3	Ground-based static/dynamic charging system	106
5.10.4	PACKAGED FUEL CELL SYSTEM MODULE	107
FIGURE 42	NEW PACKAGED FUEL CELL SYSTEM MODULE BY TOYOTA	107
5.10.5	METHANE FUEL CELLS	107
5.11	BILL OF MATERIAL ANALYSIS	108
FIGURE 43	ELECTRIC BUS MARKET: BILL OF MATERIAL ANALYSIS	108
5.12	ELECTRIC BUS MARKET: PRODUCT LAUNCHES, 2018-2023	109
5.13	KEY CONFERENCES AND EVENTS IN 2023-2024	110
TABLE 14	ELECTRIC BUS MARKET: KEY CONFERENCES AND EVENTS	110
5.14	KEY STAKEHOLDERS AND BUYING CRITERIA	111
5.14.1	BUYING CRITERIA	111
FIGURE 44	KEY BUYING CRITERIA FOR VARIOUS BATTERY TYPES	111
TABLE 15	KEY BUYING CRITERIA FOR VARIOUS BATTERY TYPES	112
5.15	SUPPLIER ANALYSIS	112
5.15.1	BATTERY CELL MANUFACTURERS	112
TABLE 16	BATTERY CELL MANUFACTURERS	112
5.15.2	AXLE MANUFACTURERS	113
TABLE 17	AXLE MANUFACTURERS	113
5.15.3	HVAC SYSTEM MANUFACTURERS	113
TABLE 18	HVAC SYSTEM MANUFACTURERS	113
5.15.4	MOTOR MANUFACTURERS	114
TABLE 19	MOTOR MANUFACTURERS	114

6	ELECTRIC BUS MARKET, BY BATTERY TYPE	115
6.1	INTRODUCTION	116
FIGURE 45	ELECTRIC BUS MARKET, BY BATTERY TYPE, 2023 VS. 2030 (USD MILLION)	116
TABLE 20	ELECTRIC BUS MARKET, BY BATTERY TYPE, 2018-2022 (UNITS)	117
TABLE 21	ELECTRIC BUS MARKET, BY BATTERY TYPE, 2023-2030 (UNITS)	117
TABLE 22	ELECTRIC BUS MARKET, BY BATTERY TYPE, 2018-2022 (USD MILLION)	117
TABLE 23	ELECTRIC BUS MARKET, BY BATTERY TYPE, 2023-2030 (USD MILLION)	118
6.2	KEY INDUSTRY INSIGHTS	118
6.3	NMC BATTERIES	118
6.3.1	INCREASED PREFERENCE FOR HIGH ENERGY DENSITY	118
6.4	LFP BATTERIES	119
6.4.1	DEMAND FOR LOW-COST AND GOOD THERMAL STABILITY	119
6.5	NCA BATTERIES	119
6.5.1	BENEFITS ASSOCIATED WITH HIGH ENERGY DENSITY AND LONG LIFE CYCLE	119
6.6	OTHER BATTERIES	119
7	ELECTRIC BUS MARKET, BY PROPULSION	120
7.1	INTRODUCTION	121
FIGURE 46	ELECTRIC BUS MARKET, BY PROPULSION, 2023 VS 2030 (USD MILLION)	121
TABLE 24	ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	122
TABLE 25	ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	122
TABLE 26	ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	122
TABLE 27	ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	122
7.2	KEY INDUSTRY INSIGHTS	123
7.3	BEVS	123
7.3.1	INCREASING DEMAND FOR ZERO-EMISSION VEHICLES	123
TABLE 28	BEVS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	123
TABLE 29	BEVS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	123
TABLE 30	BEVS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	124
TABLE 31	BEVS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	124
7.4	FCEVS	124
7.4.1	SUSTAINABLE PRODUCTION OF HYDROGEN	124
TABLE 32	FCEVS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	125
TABLE 33	FCEVS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	125
TABLE 34	FCEVS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	125
TABLE 35	FCEVS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	126
8	ELECTRIC BUS MARKET, BY RANGE	127
8.1	INTRODUCTION	128
FIGURE 47	ELECTRIC BUS MARKET, BY RANGE, 2023 VS. 2030 (USD MILLION)	128
FIGURE 48	ELECTRIC BUS MARKET: RANGE VS. DIFFERENT DRIVING CONDITIONS	128
TABLE 36	ELECTRIC BUS MARKET, BY RANGE, 2018-2022 (UNITS)	129
TABLE 37	ELECTRIC BUS MARKET, BY RANGE, 2023-2030 (UNITS)	129
TABLE 38	ELECTRIC BUS MARKET, BY RANGE, 2018-2022 (USD MILLION)	129
TABLE 39	ELECTRIC BUS MARKET, BY RANGE, 2023-2030 (USD MILLION)	129
8.2	KEY PRIMARY INSIGHTS	130
8.3	UP TO 200 MILES	130
8.3.1	EXTENSIVE USE IN CHINESE BUS FLEETS	130
TABLE 40	UP TO 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	130

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 41	UP TO 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	131
TABLE 42	UP TO 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	131
TABLE 43	UP TO 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	131
8.4	ABOVE 200 MILES	132
8.4.1	ADVANCEMENTS IN BATTERY TECHNOLOGIES	132
TABLE 44	ABOVE 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	132
TABLE 45	ABOVE 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	132
TABLE 46	ABOVE 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	133
TABLE 47	ABOVE 200 MILES: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	133
9	ELECTRIC BUS MARKET, BY LENGTH OF BUS	134
9.1	INTRODUCTION	135
FIGURE 49	ELECTRIC BUS MARKET, BY LENGTH OF BUS, 2023 VS. 2030 (UNITS)	136
FIGURE 50	ELECTRIC BUS MARKET OPPORTUNITIES, BY LENGTH OF BUS AND COUNTRY	137
TABLE 48	ELECTRIC BUS MARKET, BY LENGTH OF BUS, 2018-2022 (UNITS)	137
TABLE 49	ELECTRIC BUS MARKET, BY LENGTH OF BUS, 2023-2030 (UNITS)	137
TABLE 50	ELECTRIC BUS MARKET, BY LENGTH OF BUS, 2018-2022 (USD MILLION)	138
TABLE 51	ELECTRIC BUS MARKET, BY LENGTH OF BUS, 2023-2030 (USD MILLION)	138
9.2	KEY INDUSTRY INSIGHTS	138
9.3	LESS THAN 9 M	139
9.3.1	EASY MANEUVERING ON COMPACT ROADS	139
TABLE 52	LESS THAN 9 M: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	139
TABLE 53	LESS THAN 9 M: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	139
TABLE 54	LESS THAN 9 M: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	140
TABLE 55	LESS THAN 9 M: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	140
9.4	9-14 M	140
9.4.1	PREVALENCE IN PUBLIC TRANSPORT FLEETS	140
TABLE 56	9-14 M: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	141
TABLE 57	9-14 M: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	141
TABLE 58	9-14 M: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	141
TABLE 59	9-14 M: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	142
9.5	MORE THAN 14 M	142
9.5.1	GROWING NUMBER OF ARTICULATED ELECTRIC BUSES	142
TABLE 60	MORE THAN 14 M: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	142
TABLE 61	MORE THAN 14 M: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	143
TABLE 62	MORE THAN 14 M: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	143
TABLE 63	MORE THAN 14 M: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	143
10	ELECTRIC BUS MARKET, BY CONSUMER	144
10.1	INTRODUCTION	145
FIGURE 51	ELECTRIC BUS MARKET, BY CONSUMER, 2023 VS. 2030 (USD MILLION)	145
TABLE 64	ELECTRIC BUS MARKET, BY CONSUMER, 2018-2022 (UNITS)	145
TABLE 65	ELECTRIC BUS MARKET, BY CONSUMER, 2023-2030 (UNITS)	146
TABLE 66	ELECTRIC BUS MARKET, BY CONSUMER, 2018-2022 (USD MILLION)	146
TABLE 67	ELECTRIC BUS MARKET, BY CONSUMER, 2023-2030 (USD MILLION)	146
10.2	KEY INDUSTRY INSIGHTS	147
10.3	PRIVATE	147
10.3.1	GOVERNMENT SUBSIDIES TO PROMOTE ADOPTION OF ELECTRIC BUSES	147
TABLE 68	PRIVATE: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	147

TABLE 69	PRIVATE: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	147
TABLE 70	PRIVATE: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	148
TABLE 71	PRIVATE: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	148
10.4	GOVERNMENT	148
10.4.1	USE OF ELECTRIC BUSES FOR PUBLIC TRANSPORTATION	148
TABLE 72	GOVERNMENT: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	149
TABLE 73	GOVERNMENT: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	149
TABLE 74	GOVERNMENT: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	149
TABLE 75	GOVERNMENT: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	150
11	ELECTRIC BUS MARKET, BY APPLICATION	151
11.1	INTRODUCTION	152
FIGURE 52	ELECTRIC BUS MARKET, BY APPLICATION, 2023 VS. 2030 (USD MILLION)	152
TABLE 76	ELECTRIC BUS MARKET, BY APPLICATION, 2018-2022 (UNITS)	152
TABLE 77	ELECTRIC BUS MARKET, BY APPLICATION, 2023-2030 (UNITS)	153
TABLE 78	ELECTRIC BUS MARKET, BY APPLICATION, 2018-2022 (USD MILLION)	153
TABLE 79	ELECTRIC BUS MARKET, BY APPLICATION, 2023-2030 (USD MILLION)	153
11.2	KEY INDUSTRY INSIGHTS	153
11.3	INTERCITY	154
11.3.1	ADVANCEMENTS IN BATTERY TECHNOLOGIES AND CHARGING SOLUTIONS	154
TABLE 80	INTERCITY: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	154
TABLE 81	INTERCITY: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	154
TABLE 82	INTERCITY: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	155
TABLE 83	INTERCITY: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	155
11.4	INTRACITY	155
11.4.1	NEED TO IMPROVE AIR QUALITY IN CITIES	155
TABLE 84	INTRACITY: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	156
TABLE 85	INTRACITY: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	156
TABLE 86	INTRACITY: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	156
TABLE 87	INTRACITY: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	157
12	ELECTRIC BUS MARKET, BY BATTERY CAPACITY	158
12.1	INTRODUCTION	159
FIGURE 53	ELECTRIC BUS MARKET, BY BATTERY CAPACITY, 2023 VS. 2030 (USD MILLION)	159
TABLE 88	ELECTRIC BUS MARKET, BY BATTERY CAPACITY, 2018-2022 (UNITS)	159
TABLE 89	ELECTRIC BUS MARKET, BY BATTERY CAPACITY, 2023-2030 (UNITS)	159
TABLE 90	ELECTRIC BUS MARKET, BY BATTERY CAPACITY, 2018-2022 (USD MILLION)	160
TABLE 91	ELECTRIC BUS MARKET, BY BATTERY CAPACITY, 2023-2030 (USD MILLION)	160
12.2	KEY INDUSTRY INSIGHTS	160
12.3	UP TO 400 KWH	161
12.3.1	DEPLOYED IN INTRACITY TRANSPORT	161
TABLE 92	UP TO 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	161
TABLE 93	UP TO 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	161
TABLE 94	UP TO 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	162
TABLE 95	UP TO 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	162
12.4	ABOVE 400 KWH	162
12.4.1	USED FOR LONG-DISTANCE COMMUTE	162
TABLE 96	ABOVE 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	163
TABLE 97	ABOVE 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	163

TABLE 98	ABOVE 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	163
TABLE 99	ABOVE 400 KWH: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	164
13	ELECTRIC BUS MARKET, BY COMPONENT	165
13.1	INTRODUCTION	166
FIGURE 54	ELECTRIC BUS MARKET, BY COMPONENT, 2023 VS. 2030 (USD MILLION)	166
TABLE 100	ELECTRIC BUS MARKET, BY COMPONENT, 2018-2022 (UNITS)	167
TABLE 101	ELECTRIC BUS MARKET, BY COMPONENT, 2023-2030 (UNITS)	167
TABLE 102	ELECTRIC BUS MARKET, BY COMPONENT, 2018-2022 (USD MILLION)	168
TABLE 103	ELECTRIC BUS MARKET, BY COMPONENT, 2023-2030 (USD MILLION)	168
13.2	KEY INDUSTRY INSIGHTS	169
13.3	MOTORS	169
13.3.1	INCREASING PREFERENCE FOR EFFICIENT MOTORS	169
TABLE 104	MOTORS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	169
TABLE 105	MOTORS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	170
TABLE 106	MOTORS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	170
TABLE 107	MOTORS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	170
13.4	BATTERIES	171
13.4.1	RAPID DEVELOPMENT OF BATTERY TECHNOLOGIES	171
TABLE 108	BATTERIES: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	171
TABLE 109	BATTERIES: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	171
TABLE 110	BATTERIES: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	172
TABLE 111	BATTERIES: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	172
13.5	FUEL CELL STACKS	172
13.5.1	GROWING DEMAND FOR HYDROGEN FUEL CELL ELECTRIC BUSES	172
TABLE 112	FUEL CELL STACKS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	173
TABLE 113	FUEL CELL STACKS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	173
TABLE 114	FUEL CELL STACKS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	173
TABLE 115	FUEL CELL STACKS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	174
13.6	BATTERY MANAGEMENT SYSTEMS	174
13.6.1	NEED FOR EFFICIENT BATTERY OPTIMIZATION IN ELECTRIC BUSES	174
TABLE 116	BATTERY MANAGEMENT SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	174
TABLE 117	BATTERY MANAGEMENT SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	175
TABLE 118	BATTERY MANAGEMENT SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	175
TABLE 119	BATTERY MANAGEMENT SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	175
13.7	BATTERY COOLING SYSTEMS	176
13.7.1	NEED FOR LONGER BATTERY LIFE	176
TABLE 120	BATTERY COOLING SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	176
TABLE 121	BATTERY COOLING SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	176
TABLE 122	BATTERY COOLING SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	177
TABLE 123	BATTERY COOLING SYSTEMS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	177
13.8	DC-DC CONVERTERS	177
13.8.1	GROWING SAFETY CONCERNS IN ELECTRIC BUSES	177
TABLE 124	DC-DC CONVERTERS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	178
TABLE 125	DC-DC CONVERTERS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	178
TABLE 126	DC-DC CONVERTERS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	178
TABLE 127	DC-DC CONVERTERS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	179
13.9	INVERTERS	179

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

13.9.1	GROWING DEMAND FOR ELECTRIC BUSES WITH HIGHER RANGE	179
TABLE 128	INVERTERS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	179
TABLE 129	INVERTERS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	180
TABLE 130	INVERTERS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	180
TABLE 131	INVERTERS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	180
13.10	AC/DC CHARGERS	181
13.10.1	INCREASING NUMBER OF CHARGING INFRASTRUCTURES	181
TABLE 132	AC/DC CHARGERS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	181
TABLE 133	AC/DC CHARGERS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	181
TABLE 134	AC/DC CHARGERS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	182
TABLE 135	AC/DC CHARGERS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	182
13.11	EV CONNECTORS	182
13.11.1	HIGH DEMAND FOR ADVANCED CHARGING SYSTEMS	182
TABLE 136	EV CONNECTORS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	183
TABLE 137	EV CONNECTORS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	183
TABLE 138	EV CONNECTORS: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	183
TABLE 139	EV CONNECTORS: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	184
14	ELECTRIC BUS MARKET, BY LEVEL OF AUTONOMY	185
14.1	INTRODUCTION	185
14.2	KEY INDUSTRY INSIGHTS	185
14.3	SEMI-AUTONOMOUS	185
14.3.1	ADOPTION OF ADVANCED SAFETY FEATURES	185
TABLE 140	SEMI-AUTONOMOUS ELECTRIC BUS MODELS AND THEIR FEATURES, 2022	186
14.4	AUTONOMOUS	186
14.4.1	HIGH DEMAND FOR AUTONOMOUS ELECTRIC BUSES	186
TABLE 141	AUTONOMOUS ELECTRIC BUS MODELS AND THEIR FEATURES, 2022	187
15	ELECTRIC BUS MARKET, BY POWER OUTPUT	188
15.1	INTRODUCTION	189
FIGURE 55	ELECTRIC BUS MARKET, BY POWER OUTPUT, 2023 VS. 2030 (USD MILLION)	189
TABLE 142	ELECTRIC BUS MARKET, BY POWER OUTPUT, 2018-2022 (UNITS)	189
TABLE 143	ELECTRIC BUS MARKET, BY POWER OUTPUT, 2023-2030 (UNITS)	189
TABLE 144	ELECTRIC BUS MARKET, BY POWER OUTPUT, 2018-2022 (USD MILLION)	190
TABLE 145	ELECTRIC BUS MARKET, BY POWER OUTPUT, 2023-2030 (USD MILLION)	190
15.2	KEY PRIMARY INSIGHTS	190
15.3	UP TO 250 KW	191
15.3.1	WIDELY USED IN PUBLIC TRANSPORT BUSES	191
TABLE 146	UP TO 250 KW: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	191
TABLE 147	UP TO 250 KW: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	191
TABLE 148	UP TO 250 KW: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	192
TABLE 149	UP TO 250 KW: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	192
15.4	ABOVE 250 KW	192
15.4.1	DEMAND FOR HIGH-PERFORMANCE ELECTRIC BUSES	192
TABLE 150	ABOVE 250 KW: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	193
TABLE 151	ABOVE 250 KW: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	193
TABLE 152	ABOVE 250 KW: ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	193
TABLE 153	ABOVE 250 KW: ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	194
16	ELECTRIC BUS MARKET, BY SEATING CAPACITY	195

16.1	INTRODUCTION	196
FIGURE 56	ELECTRIC BUS MARKET, BY SEATING CAPACITY, 2023 VS. 2030 (USD MILLION)	196
TABLE 154	ELECTRIC BUS MARKET, BY SEATING CAPACITY, 2018-2022 (UNITS)	196
TABLE 155	ELECTRIC BUS MARKET, BY SEATING CAPACITY, 2023-2030 (UNITS)	197
TABLE 156	ELECTRIC BUS MARKET, BY SEATING CAPACITY, 2018-2022 (USD MILLION)	197
TABLE 157	ELECTRIC BUS MARKET, BY SEATING CAPACITY, 2023-2030 (USD MILLION)	197
16.2	KEY INDUSTRY INSIGHTS	198
16.3	UP TO 40 SEATS	198
16.3.1	NEED FOR ELECTRIC BUSES FOR SHORT-DISTANCE SHUTTLES	198
16.4	40-70 SEATS	198
16.4.1	WIDELY USED IN PUBLIC TRANSPORTATION	198
16.5	ABOVE 70 SEATS	199
16.5.1	NEED FOR HIGHER PASSENGER-CARRYING CAPABILITIES	199
17	ELECTRIC BUS MARKET, BY REGION	200
17.1	INTRODUCTION	201
FIGURE 57	ELECTRIC BUS MARKET, BY REGION, 2023 VS. 2030 (UNITS)	201
TABLE 158	ELECTRIC BUS MARKET, BY REGION, 2018-2022 (UNITS)	202
TABLE 159	ELECTRIC BUS MARKET, BY REGION, 2023-2030 (UNITS)	202
TABLE 160	ELECTRIC BUS MARKET, BY REGION, 2018-2022 (USD MILLION)	202
TABLE 161	ELECTRIC BUS MARKET, BY REGION, 2023-2030 (USD MILLION)	203
17.2	ASIA PACIFIC	203
FIGURE 58	ASIA PACIFIC: ELECTRIC BUS MARKET SNAPSHOT	204
TABLE 162	ASIA PACIFIC: ELECTRIC BUS MARKET, BY COUNTRY, 2018-2022 (UNITS)	205
TABLE 163	ASIA PACIFIC: ELECTRIC BUS MARKET, BY COUNTRY, 2023-2030 (UNITS)	205
TABLE 164	ASIA PACIFIC: ELECTRIC BUS MARKET, BY COUNTRY, 2018-2022 (USD MILLION)	206
TABLE 165	ASIA PACIFIC: ELECTRIC BUS MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	206
17.2.1	ASIA PACIFIC: RECESSION IMPACT	207
17.2.2	CHINA	207
17.2.2.1	Widespread adoption of electric buses in public transport and presence of leading OEMs	207
TABLE 166	CHINA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	207
TABLE 167	CHINA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	207
TABLE 168	CHINA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	207
TABLE 169	CHINA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	208
17.2.3	JAPAN	208
17.2.3.1	Focus on advanced electric buses	208
TABLE 170	JAPAN: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	208
TABLE 171	JAPAN: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	208
TABLE 172	JAPAN: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	209
TABLE 173	JAPAN: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	209
17.2.4	INDIA	209
17.2.4.1	Government support for electrification of public transport	209
TABLE 174	INDIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	210
TABLE 175	INDIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	210
TABLE 176	INDIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	210
TABLE 177	INDIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	210
17.2.5	SOUTH KOREA	211
17.2.5.1	Focus on electrification of public transport fleets	211

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 178	SOUTH KOREA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	211
TABLE 179	SOUTH KOREA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	211
TABLE 180	SOUTH KOREA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	211
TABLE 181	SOUTH KOREA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	212
17.2.6	SINGAPORE	212
17.2.6.1	Aim for green public transport by 2040	212
TABLE 182	SINGAPORE: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	212
TABLE 183	SINGAPORE: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	213
TABLE 184	SINGAPORE: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	213
TABLE 185	SINGAPORE: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	213
17.2.7	INDONESIA	213
17.2.7.1	Commitment to improving air quality	213
TABLE 186	INDONESIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	214
TABLE 187	INDONESIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	214
TABLE 188	INDONESIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	214
TABLE 189	INDONESIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	214
17.2.8	HONG KONG	215
17.2.8.1	Government initiatives to reduce GHG emissions	215
TABLE 190	HONG KONG: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	215
TABLE 191	HONG KONG: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	215
TABLE 192	HONG KONG: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	215
TABLE 193	HONG KONG: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	216
17.2.9	AUSTRALIA	216
17.2.9.1	Increase in awareness of climate change	216
TABLE 194	AUSTRALIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	216
TABLE 195	AUSTRALIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	216
TABLE 196	AUSTRALIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	217
TABLE 197	AUSTRALIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	217
17.3	EUROPE	217
FIGURE 59	EUROPE: ELECTRIC BUS MARKET, BY COUNTRY, 2021 (UNITS)	218
TABLE 198	EUROPE: ELECTRIC BUS MARKET, BY COUNTRY, 2018-2022 (UNITS)	218
TABLE 199	EUROPE: ELECTRIC BUS MARKET, BY COUNTRY, 2023-2030 (UNITS)	219
TABLE 200	EUROPE: ELECTRIC BUS MARKET, BY COUNTRY, 2018-2022 (USD MILLION)	219
TABLE 201	EUROPE: ELECTRIC BUS MARKET, BY COUNTRY, 2023-2030 (USD MILLION)	220
17.3.1	EUROPE: RECESSION IMPACT	220
17.3.2	FRANCE	221
17.3.2.1	Promotion of pure battery-electric buses for 2024 Summer Olympics	221
TABLE 202	FRANCE: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	221
TABLE 203	FRANCE: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	221
TABLE 204	FRANCE: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	221
TABLE 205	FRANCE: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	222
17.3.3	GERMANY	222
17.3.3.1	Increased government incentives and investments for infrastructure development	222
TABLE 206	GERMANY: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)	222
TABLE 207	GERMANY: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)	223
TABLE 208	GERMANY: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)	223
TABLE 209	GERMANY: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)	223

17.3.4 SPAIN 223

17.3.4.1 Government focus on replacing existing public transport fleet with electric buses 223

TABLE 210 SPAIN: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 224

TABLE 211 SPAIN: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 224

TABLE 212 SPAIN: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION) 224

TABLE 213 SPAIN: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION) 224

17.3.5 AUSTRIA 225

17.3.5.1 Rising emission concerns 225

TABLE 214 AUSTRIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 225

TABLE 215 AUSTRIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 225

TABLE 216 AUSTRIA: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION) 225

TABLE 217 AUSTRIA: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION) 226

17.3.6 NORWAY 226

17.3.6.1 Government support and schemes for electric buses 226

TABLE 218 NORWAY: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 226

TABLE 219 NORWAY: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 226

TABLE 220 NORWAY: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION) 227

TABLE 221 NORWAY: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION) 227

17.3.7 SWEDEN 227

17.3.7.1 Presence of market-leading OEMs 227

TABLE 222 SWEDEN: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 227

TABLE 223 SWEDEN: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 228

TABLE 224 SWEDEN: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION) 228

TABLE 225 SWEDEN: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION) 228

17.3.8 SWITZERLAND 228

17.3.8.1 Favorable government regulations 228

TABLE 226 SWITZERLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 229

TABLE 227 SWITZERLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 229

TABLE 228 SWITZERLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION) 229

TABLE 229 SWITZERLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION) 229

17.3.9 NETHERLANDS 230

17.3.9.1 Increased orders and deliveries of electric buses 230

TABLE 230 NETHERLANDS: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 230

TABLE 231 NETHERLANDS: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 230

TABLE 232 NETHERLANDS: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION) 230

TABLE 233 NETHERLANDS: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION) 231

17.3.10 BELGIUM 231

17.3.10.1 Investments in electrification and emission-free transport 231

TABLE 234 BELGIUM: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 231

TABLE 235 BELGIUM: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 231

TABLE 236 BELGIUM: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION) 232

TABLE 237 BELGIUM: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION) 232

17.3.11 UK 232

17.3.11.1 Stringent regulations for emission-free buses 232

TABLE 238 UK: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS) 232

TABLE 239 UK: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS) 233

TABLE 240 UK: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2023 (USD MILLION) 233

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

TABLE 241UK: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)233

17.3.12TURKEY234

17.3.12.1Continuous advancements in technology234

TABLE 242TURKEY: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)234

TABLE 243TURKEY: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)234

TABLE 244TURKEY: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)234

TABLE 245TURKEY: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)235

17.3.13POLAND235

17.3.13.1Push toward sustainable public transportation235

TABLE 246POLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (UNITS)235

TABLE 247POLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (UNITS)235

TABLE 248POLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2018-2022 (USD MILLION)236

TABLE 249POLAND: ELECTRIC BUS MARKET, BY PROPULSION, 2023-2030 (USD MILLION)236

**Electric Bus Market by Propulsion (BEV, FCEV), Battery (NMC, LFP, NCA, Other),
Length (<9m, 9-14m, >14m), Seating Capacity, Range, Battery Capacity, Power
Output, Level of Autonomy, Application, Component, Consumer and Region - Global
Forecast to 2030**

Market Report | 2023-05-23 | 322 pages | MarketsandMarkets

To place an Order with Scotts International:

- ☐ - Print this form
- ☐ - Complete the relevant blank fields and sign
- ☐ - Send as a scanned email to support@scotts-international.com

ORDER FORM:

Select license	License	Price
	Single User	\$4950.00
	Multi User	\$6650.00
	Corporate License	\$8150.00
	Enterprise Site License	\$10000.00
		VAT
		Total

*Please circle the relevant license option. For any questions please contact support@scotts-international.com or 0048 603 394 346.

** VAT will be added at 23% for Polish based companies, individuals and EU based companies who are unable to provide a valid EU Vat Numbers.

Email*	<input type="text"/>	Phone*	<input type="text"/>
First Name*	<input type="text"/>	Last Name*	<input type="text"/>
Job title*	<input type="text"/>		
Company Name*	<input type="text"/>	EU Vat / Tax ID / NIP number*	<input type="text"/>
Address*	<input type="text"/>	City*	<input type="text"/>

Scotts International. EU Vat number: PL 6772247784

tel. 0048 603 394 346 e-mail: support@scotts-international.com

www.scotts-international.com

Zip Code*

Country*

Date

Signature