

Coalition For A Safe Environment

Zero Emission Transportation Vehicles, Cargo Handling Equipment, Construction Equipment & Ship/Boat Commercial Availability Survey

1.20.2022

New Additions Are Highlighted
200+ Company Listings

Electric Trucks Class 8

1. BYD Motors - 8TT Battery-Electric Truck
2. EMOSS - 16 Series Electric Truck
3. EMOSS - 18 Series Electric Truck
4. E-Force One AG - EF18 SZM Electric Truck
5. ETrucks - E700 6x4 Hydrogen FCEV Tractor
6. ETrucks - E700 6x4 Battery Swap Tractor
7. ETrucks - E700 8x4 Truck
8. Freightliner - eCascadia
9. Kenworth - ZECT-Zero Emissions Cargo Transit T680 Hydrogen Fuel Cell
10. Lion Electric Co.- LION8 All-Electric Class 8 Truck
11. Nikola - Nikola One
12. Peterbilt - Model 579EV
13. XOS Thor Trucks Inc. - ET-1 Electric Day Cab Truck
14. Toyota - Electric Class 8 Truck - Hydrogen Fuel Cell
15. TransPower - ElecTruck
16. US Hybrid - Electric Class 8 Truck - eTruck
17. US Hybrid - Electric Class 8 Truck - H2Truck
18. Volvo Group - VNR Electric Class 8 Truck

Electric Yard Tractors Class 8

1. BYD Motors - 8Y Terminal Tractor
2. BYD Motors - T9 Battery-Electric Tractor
3. BYD Motors - Q1M Battery Electric Tractor
4. Hoist Liftruck - TE Series Electric-Powered Terminal Tractor
5. Kalmar Ottawa - T2E Electric Terminal Tractor
6. Lion Electric Co.- LION8 All-Electric Class 8 Tractor
7. Lonestar - S22 4x2 Electric Terminal Tractor
8. Lonestar - T22 4x2 Electric Terminal Tractor
9. Orange EV - T-Series 4x2 Terminal Truck
10. Orange EV - T-Series 4x2 Terminal Truck Conversion of Kalmar Ottawa Truck
11. Orange EV - T-Series Reman (Conversion/Repower)
12. Terberg - YT203EV 4x2
13. Transpower - Elec Truck Yard Tractor
14. Volvo-Penta - Electric Terminal Tractor

Electric Class 7 Truck

1. EMOSS - 12 Series
2. Freightliner - eM2
3. Kenworth - Class 7 K370E

Electric Trucks Class 6

1. Alkane/evLabs - Electric Class 6 Truck
2. **Bolinger - Class 6 B2 Commercial Truck**
3. BYD Motors - 6F Long Range Battery Electric Truck
4. BYD Motors - T7 Battery Electric Truck
5. DAF Trucks - LF Electric Tractor
6. DAF Trucks - CF Electric Tractor
7. EMOSS - 10 Series
8. Freightliner - eM2
9. Kenworth - Class 6 K270E
10. Lightning Systems - LEV100 All Electric Low Cab
11. Lion Electric - Lion6 All-Electric Class 6 Truck

Electric Trucks Class 5

1. ADOMANI - Class 5 Truck Cab & Chassis
2. **Bolinger - Class 5 B2 Commercial Truck**
3. BYD Motors - 5F/T5 Battery-Electric Box Truck

Electric Trucks Class 4

1. ADOMANI - Class 4 Truck
2. **Bolinger - Class 4 B2 Commercial Truck**

Electric Trucks Class 3

1. ADOMANI - Class 3 Truck
2. Bolinger - Class 3 B2 Commercial Truck
3. ePower - XT320E 3.5t
4. EVT - Urban Electric Class 3 Truck
5. TEVVA Motors - Electrify E-Truck Series
6. ZERONOX - Class 3 EV Truck

Electric Pickup Trucks

1. Atlis Motor Vehicles - XT Electric Pickup Truck
2. Bollinger Motors - All-Electric B1 Pickup Truck
3. Bollinger Motors - All-Electric B2 Pickup Truck
4. **Chevrolet - Silverado EV Pickup Truck**
5. Ford - F-150 Lightning
6. **GMC - Sierra EV**
7. GMC - Hummer EV2 Pickup
8. GMC - Hummer EV2x Pickup
9. GMC - Hummer EV3x Pickup
10. GMC - Hummer EV Edition 1 Pickup
11. Havelaar Canada - Bison Electric Pickup Truck
12. Lordstown - Endurance Pickup Truck
13. Nicola - Badger FCEV-Hydrogen Fuel Cell Electric Vehicle Battery Truck
14. Nissan/Dongfeng Motor Corporation - Rich 6 EV
15. Rivian - Electric Pickup Truck R1T

16. Rivian - Electric SUV R1S
17. Workhorse Group - W15 All Wheel Drive Electric Truck
18. Zero Automotive - ZED70 Wagon E-Truck
19. Zero Automotive - ZED70Single Cab E-Truck
20. Zero Automotive - ZED70Dual Cab E-Truck

Electric Jeep

1. Bollinger Motors - All-Electric B1 Jeep Work Truck
2. Jeep - Wrangler 4xe

Electric Troop Carrier

1. Zero Automotive - ZED70 Troup Carrier E-Truck

Electric SUV Full Size

1. GMC – Hummer EV2 SUV
2. GMC – Hummer EV2x SUV
3. GMC – Hummer EV3x SUV
4. GMC – Hummer EV Edition 1 SUV
5. Rivian - Electric Pickup Truck R1S

Electric Ship-to-Shore (STS) Rail-Mounted Gantry Cranes

1. Konecranes - Electric Ship-to-Shore (STS) Gantry Cranes
2. Liebherr - Rail Mounted Electric Gantry Crane
3. MacGregor - Electric Gantry Crane
4. Shanghai Zhenhua Heavy Industries Co. - Electric Ship-to-Shore Cranes

Electric Rubber-Tired Gantry (RTG) Cranes

1. ANUPAM-MHI - E-RTG Electric Rubber Tired Gantry Crane
2. Konecranes - Electric Cable Reel Rubber-Tired Gantry (RTG) Cranes
3. Konecranes - Electric Busbar Rubber-Tired Gantry (RTG) Cranes
4. Kalmar - E-One2 Zero Emission RTG
5. Liebherr Container Cranes - e-RTG
6. Terex Port Solutions - E-RTGs

Electric Rail-Mounted Gantry Cranes

1. HY Crane Co. - Electric RMG Rail Mounted Container Gantry Crane

Electric Bulk Handling Crane

1. Liebherr - LPS 420 E

Carry Deck Crane

1. Zero Emissions Equipment - ZEECRANE 4500 4.5 Ton Carry Deck Crane
2. Zero Emissions Equipment - ZEECRANE 9000 9-Ton Carry Deck Crane

Reach Stackers

1. ETrucks - Electric Reach Stacker
2. N.C. Nielson - NCN 85 T
3. N.C. Nielson - NCN 100 T

4. N.C. Nielson - NCN 110 T
5. N.C. Nielson - NCN 130 T
6. N.C. Nielson - NCN 152 T
7. Konecranes Hybrid Reach Stacker
8. Taylor Machine Works - XEC 150LE - Unloaded Container Top Handler
9. Taylor Machine Works - XEC 155/6 - Unloaded Container Top Handler
10. Taylor Machine Works - XEC 205/6 - Unloaded Container Top Handler
11. Taylor Machine Works - XEC 206/7 - Unloaded Container Top Handler
12. Taylor Machine Works - XEC 207/8 - Unloaded Container Top Handler
13. Taylor Machine Works - ZLC-975 Loaded Container Top Handler
14. Taylor Machine Works - ZLC-976 Loaded Container Top Handler
15. Transpower - Electric Forklift Reach Stacker

Shuttle Carrier

1. Kalmar - Electric Shuttle Carrier

Straddle Carrier

1. Konecranes Electric Straddle Carrier DE53
2. Konecranes Electric Straddle Carrier DE54
3. Konecranes Electric Boxrunner
4. Kalmar ESC440 Electric Straddle Carrier

Trailer Spreader

1. TEC - Electric Trailer Spreader BA-030

Electric Forklifts

1. Bendi - Electric Narrow Aisle B-30
2. Bendi - Electric Narrow Aisle B-40
3. BYD Motors - ECB 16 Electric Forklift
4. BYD Motors - ECB 16S Electric Forklift
5. BYD Motors - ECB 18 Electric Forklift
6. BYD Motors - ECB 18S Electric Forklift
7. BYD Motors - ECB 20 Electric Forklift
8. BYD Motors - ECB 25 Electric Forklift
9. BYD Motors - ECB 27 Electric Forklift
10. BYD Motors - ECC 27 Electric Forklift
11. BYD Motors - ECB 30 Electric Forklift
12. BYD Motors - ECB 35 Electric Forklift
13. BYD Motors - ECB 40 Electric Forklift
14. BYD Motors - ECB 45 Electric Forklift
15. BYD Motors - ECB 50 Electric Forklift
16. CAT - EP16-20(C)N Electric Forklifts
17. CAT - EP10-15KRT PASC Electric Forklifts
18. CAT - EP10-16-20(C)PNT Electric Forklifts
19. Clark - GEX 40/45/50 Series Electric Forklifts
20. Clark - GEX ECX 20/25/30/32 Series Electric Forklifts
21. Clark - GEX 20/25/30 Series Electric Forklifts
22. Clark - GEX 16/18/20S Series Electric Forklifts
23. Clark - GTX 16/18/20S Series Electric Forklifts
24. Clark - TMX 12/15S/15/17/20/25 Series Electric Forklifts
25. Clark - ESX 12/15S/15/17/20/25 Series Electric Forklifts

26. Crown - RC 5500 Series Stand Up 3-Wheeled Electric Forklift
27. Crown - SC 5200 Series 3-Wheeled Electric Forklift
28. Crown - FC 4500 Series Four Wheeled Electric Forklift
29. Doosan - B40/45/50X-5 Series Electric 4-Wheel Forklift
30. Doosan - B45X-7 Electric 4-Wheel Forklift
31. Doosan - B22/25/30/35X-5 Series Electric 4-Wheel Forklift
32. Doosan - B20/25/25SE-7/30/32S-7 Series Electric 4-Wheel Cushion Forklift
33. Doosan - B15/18S/20SC-5 Series Electric 4-Wheel Cushion Forklift
34. Doosan - B15T/18TL/20T/20TL Electric 7 Series 3-Wheel Forklift
35. Doosan - B16/18/20X-7 Electric 7 Series 4-Wheel Forklift
36. Doosan - B13/15/16R-5 Series Rear Drive 3-Wheeled Forklift
37. Drexel - Electric Narrow Aisle SLT 30
38. Drexel - Electric Narrow Aisle SL-40
39. Hangcha - A Series 3 Wheeled Forklift
40. Hangcha - J Series 3 Wheeled Forklift
41. Hangcha - A Series 4 Wheeled Forklift
42. Hangcha - J Series 4 Wheeled Forklift
43. Hoist Liftruck - PE Series Heavy-Duty Pneumatic Lift Trucks
44. Hoist Liftruck - Lazer Series Cushion Tire Lift Truck
45. Hoist Liftruck - Neptune Electric Series Lift Truck
46. Hyster - E30-40XN Series Electric Lift 4 Wheel Truck
47. Hyster - J45-70XN Series Electric Pneumatic Tire
48. Hyster - J80-100XN Series Electric Pneumatic Tire
49. Hyster - Class 1 With Nuvera Hydrogen Fuel Cell
50. Hyster - Class 2 With Nuvera Hydrogen Fuel Cell
51. Hyster - Class 3 With Nuvera Hydrogen Fuel Cell
52. Hyundai Construction - Series 9 40B-9 Four Wheeled Forklift
53. Hyundai Construction - Series 9 45B-9 Four Wheeled Forklift
54. Hyundai Construction - Series 9 50B-9 Four Wheeled Forklift
55. Kalmar - EC50-90
56. Komatsu - FB10-FB18 Series Electric Forklifts
57. Komatsu - FB20 A Electric Forklift
58. Komatsu - FB15M-FB20M Series Electric Forklifts
59. Komatsu - FB25-FB30 Series Electric Forklifts
60. Komatsu - FB13RL-FB18RL Series Electric Forklifts
61. Konecranes - TX AC Electric Rider Lift Trucks
62. Konecranes - SRX AC Electric Reach Trucks
63. Linde - E12-E20 EO Series 386-02
64. Linde - E Series 4-Wheel Drive
65. Linde - E Series
66. Linde - E R series
67. Linde - E35-E50 Series 388
68. Linde - E Series Heavy Loads
69. Mariotti - Electric AC
70. Raymond Corp. - 4150 Stand Up Forklift
71. Raymond Corp. - 4250 Stand Up Forklift
72. Raymond Corp. - 4460 Sit Down Forklift
73. Raymond Corp. - 4750 Stand Up Forklift
74. Raymond Corp. - 7200 Reach-Fork Truck

75. Raymond Corp. - 7300 Reach-Fork Truck
76. Raymond Corp. - 7500 Universal Stance Reach Truck
77. Raymond Corp. - 7500 Dockstance reach Forklift
78. Raymond Corp. - 7000 Series Deep-Reach Forklift Truck
79. Raymond Corp. - 7700 Reach-Fork Truck
80. Raymond Corp. - 7310 4-Directional Reach Truck
81. Raymond Corp. - 9600 Sw8ing Reach Turret Truck
82. Raymond Corp. - 9700 Sing Reach Truck
83. Raymond Corp. - 9800 Swing Reach Truck
84. Raymond Corp. - TRT Transtacker Truck
85. Raymond Corp. - 9300 Sideloader Long Load Forklift
86. Raymond Corp. - 9400 Sideloader Forklift
87. Still - RX 50 1.0-1.6T Three-Wheeled Electric Forklift
88. Still - RX 20 1.4-2.0T Three-Wheeled Electric Forklift
89. Still - RX 20 1.4-2.0T Li-Ion Three-Wheeled Electric Forklift
90. Still - RX 60 1.6-2.0T Four Wheeled Electric Forklift
91. Still - RX 60 2.5-3.5T Four Wheeled Electric Forklift
92. Still - RX 60 3.5-5.0T Four Wheeled Electric Forklift
93. Still - RX 60 6.0-8.0T Four Wheeled Electric Forklift
94. Mitsubishi Forklift Trucks - FB16PNT-FB20PNT Series Three-Wheeled Electric
95. Mitsubishi Forklift Trucks - FBC15N-FBC18N Series Small Electric Cushion
96. Mitsubishi Forklift Trucks - FBC22N2-FBC30LN3 Series Mid-Size Electric Cushion
97. Mitsubishi Forklift Trucks - FBC15NS-FBC20NS Series Stand-Up End Control
98. Toyota - Core Electric Forklift
99. Toyota - Large Electric Forklift
100. Toyota - 3-Wheel Electric Forklift
101. Toyota - Stand-Up Rider Forklift
102. Toyota - Electric Pneumatic Forklift
103. Toyota - High-Capacity Electric Cushion Forklift
104. Yale - ESC 30 Three-Wheeled Forklift
105. Yale - ERC Four Wheeled Forklift
106. Yale - ERP30 Four Wheeled Forklift

Narrow Aisle Electric Forklifts

1. Linde - A Series 5022
2. Linde - K Series 5231

Autonomous Electric Forklifts

1. Linde - K-Matic Series

Electric Carriers

1. **BrightDrop - EP1 Rapid Load Vehicle Electric Propulsion Carrier**

Electric Pallet Truck

1. Big Joe - P33 Pallet Truck
2. Big Joe - E30 Pallet Truck
3. Big Joe - D40 Pallet Truck
4. Big Joe - WPT45 Pallet Truck
5. Big Joe - WPT60 Pallet Truck
6. Big Joe - LPT26 Pallet Truck
7. Big Joe - LPT33 Pallet Truck

8. Big Joe - LPT44 Pallet Truck
9. BYD - P20JW All-Electric Walkie Pallet Truck
10. BYD - PMW20 Pallet Truck
11. Cat Lift Trucks - NPP16-20N2 Pallet Truck
12. Cat Lift Trucks - NPV/NPF20-25N3 Pallet Truck
13. Cat Lift Trucks - NPV20PD Pallet Truck
14. Cat Lift Trucks - NPR20N Pallet Truck
15. Cat Lift Trucks - NPS20N Pallet Truck
16. Crown - WP3025 Walkie Pallet Truck
17. Crown - WP3030 Walkie Pallet Truck
18. Crown - WP3035 Walkie Pallet Truck
19. Crown - WP3040 Walkie Pallet Truck
20. Crown - WP3045 Walkie Pallet Truck
21. Hyster - W40ZA Walkie Pallet Stacker
22. Hyster - W30ZA2 Walkie Pallet Stacker
23. Hyster - W25ZA2 Walkie Pallet Stacker
24. Jungheinrich - EJE 112i Pedestrian Pallet Truck
25. Jungheinrich - EJE 114i Pedestrian Pallet Truck
26. Jungheinrich - EJE 114 Pedestrian Pallet Truck
27. Jungheinrich - EJE 116 Pedestrian Pallet Truck
28. Jungheinrich - EJE 118 Pedestrian Pallet Truck
29. Jungheinrich - EJE 120 Pedestrian Pallet Truck
30. Jungheinrich - EJE 222 Pedestrian Pallet Truck
31. Jungheinrich - EJE 225 Pedestrian Pallet Truck
32. Jungheinrich - EJE 230 Pedestrian Pallet Truck
33. Jungheinrich - EJE 235 Pedestrian Pallet Truck
34. Jungheinrich - EJE 220r Pedestrian Pallet Truck
35. Jungheinrich - EJE 225r Pedestrian Pallet Truck
36. Jungheinrich - EJE C20 Pedestrian Pallet Truck
37. Jungheinrich - ERE 120 Stand-On
38. Jungheinrich - ERE 125 Stand-On
39. Jungheinrich - ERE 225 Stand-On
40. Jungheinrich - ESE 120 Stand-On/Sideways Seated
41. Jungheinrich - ESE 220 Stand-On/Sideways Seated
42. Jungheinrich - ESE 320 Stand-On/Sideways Seated
43. Jungheinrich - ESE 420 Sideways Seated
44. Jungheinrich - ESE 430 Sideways Seated
45. Jungheinrich - ESE 533 Sideways Seated
46. Linde - Citi One Series 1130
47. Linde - T16-T20 Series 1152
48. Linde - T16-T20 P Series
49. Linde - T16-T20 FP Series
50. Linde - T20-T25 AP/SP Series
51. Linde - T14-T25 S Series
52. Linde - T20-T25 R Series
53. Linde - T25-T30 Series
54. Linde - T33 RHP Series
55. Linde - T16L
56. Linde - T20SR
57. Linde - T20AP
58. Linde - MT15
59. Toyota - 8HBW23 - Walkie Pallet Jack

Autonomous Electric Pallet Truck

1. Linde - T-Matic

Pallet Stacker Truck

1. Linde - MM10
2. Linde - L10-L12 Series
3. Linde - L14-L20 Series
4. Linde - L14C
5. Linde - L14P
6. Linde - D12-D14 AP/SP
7. Linde - L14-L16 R Series
8. Linde - L10-L12 AS Series 1172
9. Linde - L14-L16 AS AP/AS Series 131
10. Linde - D06-D08 Series
11. Linde - D12-D14 Series
12. Linde - D12 S series
13. Linde - D12R
14. Linde - D10
15. Linde - L14-L20 AP Series
16. Linde - D10AP
17. Linde - D10FP

Autonomous Electric Stacker Truck

1. Linde - L-Matic
2. Linde - L-Matic AC Series

Electric Tow Tractor

1. Clark - CTX 40/70 Series Electric Tow Tractor
2. **Hedin USA - PTT3 Power Tugger**
3. **Hedin USA - PTT6 Power Tugger**
4. **Hedin USA - GP Tugger**
5. **Hedin USA - Ride-On Tugger**
6. **Hedin USA - Cable Reel Transporter**
7. **Hedin USA - Coil Car**
8. **Hedin USA - Coil Car Cradle**
9. **Hedin USA - Coil Tipper**
10. Holloway - MasterMover Electric Tugger
11. Konecranes - TGX AC Electric Tow Tractor
12. Linde - P20
13. Linde - P30 Series 132
14. Linde - P40
15. Linde - P50 Series 131
16. Linde - P250 Series 127-03
17. Linde - W20 Series 127-04
18. Linde - P60-P80 W08 Series
19. Linde - P30-P50 C
20. Raymond - 8610 Tow Tractor
21. Zallys - M3 Electric Tow Tractor
22. Zallys - M4 Electric Tugger
23. Zallys - M5 Industrial Electric Power Pusher
24. Zallys - M10 tow Tug For Heavy Load
25. Zallys - M12 Vertical Electric Tug

Autonomous Electric Tow Tractor

1. Linde - P-Matic

Electric Dredger

1. Custom Dredge Works, Inc.
2. Damen - Cutter Suction Dredger 650
3. DSC Dredge
4. IMS Dredges
5. Ellicott Dredges. LLC
6. Mud Cat - MC 20E
7. Mud Cat - MC 40E
8. Mud Cat - MC 40 E 30' DD
9. Mud Cat - MC 50E
10. Mud Cat - MC 100E
11. TV Dredging

Tracked Crawler Crane

1. Liebherr - LR 1250.1 Crawler Crane

Tracked Dozer (Tractor)

1. Caterpillar - D6 XE Dozer
2. Caterpillar - D7E Hybrid Bulldozer

Excavators

1. Bobcat - E10 Electric Micro-Excavator
2. Caterpillar – Z Line All-Electric 26-Ton Excavator
3. **Doosan - DX17Z-5 Electric Mini Excavator**
4. Doosan - DX140
5. Doosan - DX220/225
6. Doosan - DX300
7. Doosan - DX340
8. Doosan - DX380/420
9. Doosan - DX480/520
10. Green Machine - Mini Excavator E210
11. Hitachi - EX1900E-6
12. Hitachi - EX2600E-6
13. Hitachi - EX3600E-6
14. Hitachi - EX5600E-6
15. Hitachi - EX8000E-6
16. **Hyundai - R18e Mini Excavator**
17. JCB - 19C-IE Electric Mini-Excavator
18. Kato - 9VXE- 3 Electric Mini Excavator
19. Kato - 17VXE Electric Mini Excavator
20. Suncar - TB216E Electric Excavator
21. Suncar - TB260E Electric Excavator
22. Suncar - TB1140E
23. **ViridiParente - e20 Compact Mini Excavator**
24. **Volvo - EC18 Electric Compact Excavator**
25. **Volvo - ECR18 Electric Compact Excavator**

26. Volvo - ECR25 Electric Compact Excavator
27. Wacker Neuson Group - Zero Tail EZ17e Mini Excavator
28. **Wacker Neuson - 803 Dual Power Electric Excavator**

Top Front End Payloader

1. BYD Motors - Zero Emission Top Front Payloader
2. MultiOne - EZ 8 Electric General Bucket
3. MultiOne - EZ 8 Electric Dumper
4. MultiOne - EZ 8 Electric Grapple Bucket

Skid Steer

1. Giant - E-Skid Steer Remote Control Skid-Steer Loader
2. Kovaco - eLise 900 Electric Skid Steer Loader
3. Schibeci - 32PE Electric Mini Skid Steer Loader
4. Sherpa - 100 ECO Electric Mini Skid-Steer

Wheeled Loader

1. Caterpillar - 988K XE Electric Drive Wheel Loader
2. Hitachi - ZW220HYB-5 Hybrid Wheel Loader
3. John Deere - 944K Hybrid Wheel Loader
4. Kramer - KL25.5e Electric Wheeled Loader
5. Kramer - 5055e Electric Wheel Loader
6. MultiOne - EZ7 Mini Articulated Loader
7. MultiOne - EZ8 Mini Articulated Loader
8. Schaffer - 24E Electric Wheel Loader
9. Tobroco-Giant - G2500 HD Electric Wheel Loader
10. Tobroco-Giant - G2500 HDX-TRA00E Electric Wheel Loader
11. Volvo - L25 Electric Compact Wheel Loader
12. Wacker Neuson Group - WL20e Wheel Loader

Rope Shovels

1. Caterpillar - Model 7295 50 Ton Electric Rope Shovel
2. Caterpillar - Model 7395 70 Ton Electric Rope Shovel
3. Caterpillar - Model 7495 HD 90 Ton Electric Rope Shovel
4. Caterpillar - Model 7495 HF 120 Ton Electric Rope Shovel
5. Caterpillar - Model 7495 120 Ton Electric Rope Shovel
6. Komatsu - P&H 1900XPC
7. Komatsu - P&H 2300XPC
8. Komatsu - P&H 2800XPC
9. Komatsu - P&H 4100C
10. Komatsu - P&H 4100C Boss
11. Komatsu - P&H 4100XPC
12. Komatsu - P&H 4100XPC AC-90
13. Komatsu - P&H 4800XPC

Wheel Dumper/Loader

1. **Kuhn Schweitz - Elektro Dumper/eDumper**
2. Wacker Neuman Group - DW15e Electric Wheel Dumper
3. Wacker Neuman Group - DT10e Compact Electric Wheel Dumper
4. **Volvo - L20 Electric Compact Wheel Loader**

5. Volvo - L25 Electric Compact Wheel Loader

Electric Truck Concrete Mixers

1. BYD - J9C Concrete Mixer
2. CIFA - E8 Concrete Mixer
3. CIFA - E9 Concrete Mixer
4. ETrucks - XCMG/Schwing V7 Electric Concrete Mixer Truck
5. Futuricum - Concrete 40E e-Truck Mixer
6. Liebherr - ETM 705 Truck Mixer
7. Liebherr - ETM 805 Truck Mixer
8. Liebherr - ETM 905 Truck Mixer
9. Liebherr - ETM 1005 Truck Mixer
10. Liebherr - ETM 1205 Truck Mixer
11. Liebherr - ETM 1004 T Truck Mixer
12. Sany - Electric Truck Mixer

Auger

1. MultiOne - EZ 8 Electric Auger

Backhoe

1. Case - 580 EV Electric Backhoe Loader
2. **John Deere - 310X Electric Backhoe**
3. MultiOne - EZ 8 Electric Backhoe

Ground Compactor

1. **Wacker Neuson - AS30e Electric Vibratory Rammer**
2. **Wacker Neuson - AS50e Electric Vibratory Rammer**
3. **Wacker Neuson - AS60e Electric Vibratory Rammer**
4. **Wacker Neuson - APS Series**
5. **Wacker Neuson - AP1840e Electric Vibratory Plate**
6. **Wacker Neuson - AP1850e Electric Vibratory Plate**
7. **Wacker Neuson - AP1860e Electric Vibratory Plate**
8. **Wacker Neuson - ACBe Electric Internal Vibrator**

Trencher

1. MultiOne - EZ 8 Electric Trencher

Hydraulic Breaker

1. MultiOne - EZ 8 Electric Hydraulic Breaker

Dump Trucks

1. BYD - T5 Dump Truck
2. California Truck Equipment Co. - All-Electric Powertrain With Ford E450 Dump Truck
3. California Truck Equipment Co. - All-Electric Powertrain With Ford F59 Dump Truck
4. ETruck - TFT125 Mining Dump Truck
5. Komatsu - e-Dumper
6. Kuhn Schweiz AG - e-Dumper

Wheel Barrow

1. Power Pusher - E-750 Electric Wheelbarrow

Delivery Truck

1. AMP - E-100 V.2 All-Electric Step Van With Workhorse Chassis
2. Arrival – Generation 2 Electric Delivery Van
3. Boulder Electric Vehicle - DV-500 Delivery Truck
4. **BrightDrop - EV410 Electric Van**
5. **BrightDrop - EV600 Electric Van**
6. BYD Motors - T7 Battery Electric Delivery Truck - Class 7
7. BYD Motors - T5 Battery Electric Delivery Truck - Class 5
8. Mitsubishi Fuso Truck & Bus Corp. - Fuso eCanter Light Class 4 Delivery Truck
9. Mitsubishi Fuso Truck & Bus Corp./E-Fuso Vision One Heavy Duty Class 5 Delivery Truck
10. Motive Power Systems - All-Electric Powertrain For Ford E450 Box Truck/Flat Bed
11. Motive Power Systems - All-Electric Powertrain For Ford F59 Walk In Van
12. Oshkosh Defense - EV Next Generation Delivery Vehicle (NGDV)
13. UPS - Hydrogen Fuel Cell Class 6 Delivery Truck

Cab Chassis Delivery Truck

1. ADOMANI - Class 3 All-Electric Cutaway
2. ADOMANI - Class 5 Truck Cab & Chassis
3. Daimler - Freightliner eM2 106
4. ETruck - E300 4x2 Cab Truck
5. Motiv Power Systems - EPIC 4 Series
6. Motiv Power Systems - EPIC 5 Series
7. Motiv Power Systems - EPIC 6 Series
8. Peterbilt - 220EV
9. Zenith Motors - Electric Chassis Cab
10. Zenith Motors - Electric Cutaway Cab

Flat Bed Truck

1. Boulder Electric Vehicles - FB-500 Flat Bed Work Truck
2. Motive Power Systems - All-Electric Powertrain For Ford E450 Box Truck/Flat Bed
3. Phoenix Motorcars - ZEUS 500 Electric Flatbed Ford E350
4. Phoenix Motorcars - ZEUS 500 Electric Flatbed Ford E450

Cargo Panel Van

1. ADOMANI - All-Electric Logistic Van
2. Chanje Energy Inc. - Class 5 - V8070 Electric Panel Van
3. Chanje Energy Inc. - V8100 Electric Panel Van
4. Citroën - Jumpy/Relay BEV Electric Van
5. Citroën - Jumper BEV Electric Van
6. EMOSS – EMS 508 Electric Delivery Van
7. General Motors – BrightDrop EV600
8. Mercedes-Benz - EQV 6 Panel Van
9. Mercedes-Benz - EQV 7 Panel Van
10. Mercedes-Benz - EQV 8 Panel Van
11. Morgan Olson Route Star - Motiv All-Electric Powertrain Ford F59 Walk-In-Van
12. Renault - SL31 i ZE Business Panel Van
13. Renault - SM31 i ZE Business Panel Van

14. Renault - MM31 i ZE Business Panel Van
15. Renault - LM31 i ZE Business Panel Van
16. Rockport Commercial Vehicles Cargoport - Motiv All-Electric Powertrain
17. Workhorse - C650 Step Van
18. Workhorse - C1000 Step Van
19. Zenith Motors - ZEUS 500 Electric Walk-In Van

Cargo Van

1. Electric Last Mile Services - ELMS Urban Delivery Van Class 1
2. EVT - Electric Logistics Van
3. Green4U Technologies - Cargo Van
4. GreenPower - EV Star 22' Heavy Duty Class 4
5. GreenPower - EV Star 25' Heavy Duty Class 4
6. GreenPower - EV Star+ Heavy Duty Class 4
7. Lighting Systems - Electric Transit Cargo Van
8. Mercedes-Benz - eSprinter
9. Nissan - Electric E-NV200 Van
10. Sea Electric - SEA FORD Transit EV Cargo Van
11. VIA - Cargo Van
12. Volkswagon - I.D. Buzz Cargo Van
13. Workhorse - NGen Electric Delivery Van
14. Zenith Motors - Electric Cargo Van

Utility/Electric Trucks

1. Boulder Electric Vehicles - SB-500 Utility/Maintenance Truck
2. California Truck Equipment Co. - Motiv All-Electric Powertrain With Ford E450 Utility Truck
3. California Truck Equipment Co. - Motiv All-Electric Powertrain With Ford F59 Utility Truck
4. Phoenix Motorcars - ZEUS 500 Electric Utility Service Vehicle Ford E350/E450 *

Aerial Boom Truck

1. Altec - Aerial Boom Vehicle with JEMS: 16-20 kWh Lithium-Ion Battery *
2. Hyster - Ascender AWP
3. JLG - Aerial Lift
4. Lion Electric Co.- LION8 All-Electric Class 8 Bucket Truck
5. Yale - AEREO AWP

Electric Refuse Trucks

1. Battle Motors - Battle 480 Full Electric Refuse Truck
2. BYD - Class 8R Long Range Battery Electric Refuse Truck
3. BYD - Class 6R Long Range Battery Electric Refuse Truck
4. Dennis Eagle - eCollect Electric Refuse Collection Truck
5. Lion Electric Co.- LION8P ASL Class 8 Refuse Battery Electric Truck
6. Lion Electric Co.- LION8P REL Class 8 Refuse Battery Electric Truck
7. Mack - LR Electric Refuse Truck
8. Motiv Power - ERV Battery-Electric Class 8 Refuse Truck
9. Petebuilt - Model 520EV Battery-Electric Class 8 Refuse Truck
10. Sea Drive - Sea Refuse EV Rear Compactor Sea-Drive 120a
11. Sea Drive - Sea Refuse EV Rear Compactor Sea-Drive 120b
12. Sea Drive - Sea Refuse EV Rear Compactor Sea-Drive 120c
13. Sea Drive - Sea Refuse EV Rear Compactor Sea-Drive 180a

14. Sea Drive - Sea Refuse EV Rear Compactor Sea-Drive 180b
15. Sea Drive - Sea Refuse EV Side Loader Sea-Drive 120a
16. Sea Drive - Sea Refuse EV Side Loader Sea-Drive 120b
17. Sea Drive - Sea Refuse EV Side Loader Sea-Drive 120c
18. Sea Drive - Sea Refuse EV Side Loader Sea-Drive 180a
19. Sea Drive - Sea Refuse EV Side Loader Sea-Drive 180b
20. Volvo - FE Electric Refuse Truck
21. Wrightspeed - Electric Powertrain Refuse Truck

Street Sweeper

1. Dulevo International - D.Zero Electric Street Sweeper
2. Tenex International - Electra 1.0 Compact Street Sweeper
3. Tennant - Green Machines 500ze Electric Street Sweeper
4. Tropos - ABLE Sweep eCUV
5. U.S. Hybrid - Hydrogen Fuel Cell Street Sweeper

Fire Trucks

1. Bintelli Electric Vehicles - Fire Buddy Deluxe
2. Rosenbaur - Electric Fire Engine
3. Suzhou Eagle Electric Vehicle Manufacturing Co.

Agricultural Tractors

1. Fendt - e100 Vario Electric Tractor
2. John Deere – GridCON
3. Kubota - Electric Kubota Bx2350
4. Monarch - Electric Compact Tractor
5. Solectrac - eFarmer Tractor
6. Solectrac - eUtility Tractor
7. Solectrac - Compact eUtility Tractor (CET)

Autonomous Agricultural Tractors

1. Monarch - Electric Compact Tractor

Livestock/Equestrian Tractors

1. Solectrac - eUtility Tractor

Compact Utility Vehicles

1. Alke - ATX310E Small Electric Pick-Up
2. Alke - Double Cab ATX ED Electric Vehicle
3. Alke - ATEX Explosion Proof Vehicle
4. Alke - ATX320E Electric Vehicle
5. Alke - ATX340E Electric Utility Vehicle
6. Alke - Waste Collection Electric Vehicle
7. Alke - Electric Ambulance
8. Bintelli - Enclosed Electric Shuttle 15p
9. Bintelli - Pressure Washing Buddy
10. Bintelli - Industrial Truck Deluxe 1.5T
11. Bintelli - Transport Buddy Electric Shuttle
12. Bintelli - Transport Buddy Electric Shuttle SE
13. Bintelli - Transport Buddy gp

14. Bintelli - Utility Buddy
15. Bintelli - Utility Buddy Deluxe
16. Bintelli - Utility Buddy Enclosed
17. Bintelli - Utility Cargo Truck
18. Columbia ParCar Corp. - Payloader/Welding
19. Columbia ParCar Corp. - Payloader/Van Body
20. Columbia ParCar Corp. - Payloader/Metal Cage
21. Columbia ParCar Corp. - Payloader/Folding Side Rails
22. Columbia ParCar Corp. - Payloader/Steel Cab
23. Columbia ParCar Corp. - Payloader/Refuse Unit
24. Columbia ParCar Corp. - Utility MVP
25. Columbia ParCar Corp. - Utilitruck
26. Cushman - Hauler 800 X Electric
27. GEM - GEM e2
28. GEM - GEM e4
29. GEM - GEM e6
30. GEM - GEM eL XD
31. GEM - GEM eM 1400 LSV
32. John Deere - TE 4x2 Electric Utility Vehicle
33. Kick - Kick Electric Mini Pickup LSV
- 34. Mars Cars - EZ Go Express L6 Passenger Vehicle**
- 35. Mars Cars - EZ Go Express S2 Passenger Vehicle**
- 36. Mars Cars - EZ Go Express S4 Passenger Vehicle**
- 37. Mars Cars - EZ Go M2+2 Passenger Vehicle**
- 38. Mars Cars - EZ Go M4 Passenger Vehicle**
- 39. Mars Cars - EZ Go M6 Passenger Vehicle**
- 40. Mars Cars - EZ Go Liberty Passenger Vehicle**
- 41. Mars Cars - EZ GO 4X4 MARS M-WAGON**
- 42. Mars Cars - EZ GO Valor Passenger Vehicle**
- 43. Mars Cars - EZ GO TXT Islander Passenger Vehicle**
- 44. Mars Cars - EZ GO TXT Islander Work Edition Passenger Vehicle**
- 45. Mars Cars - EZ GO Freedom RXV Passenger Vehicle**
46. Moto Electric Vehicles - 2 Passenger LSV Enclosed Utility Standard Hard Door
47. Moto Electric Vehicles - 2 Passenger Utility Deluxe
48. Moto Electric Vehicles - 2 Passenger Utility Deluxe Hard Door
49. Moto Electric Vehicles - 2 Passenger Enclosed Utility Deluxe
50. Moto Electric Vehicles - 2 Passenger Enclosed Utility Deluxe Hard Door
51. Moto Electric Vehicles - 4 Passenger Utility Hard Door
52. Moto Electric Vehicles - Industrial Buddy 2 Passenger Truck Deluxe Hard Door
53. Moto Electric Vehicles - Industrial Buddy 2 Passenger Delivery
54. Moto Electric Vehicles - Industrial Buddy 2 Passenger Delivery Hard Door
55. New Vac - KeyLo Electric Mini Pickup LSV
56. Tropos Motors - ABLE FRV - Electric Fire Response Vehicle
57. Tropos Motors - ABLE EMSO - Electric Medical Service Vehicle, Open Platform
58. Tropos Motors - ABLE EMSc - Electric Medical Service Vehicle, Closed Platform
59. Tropos Motors - ABLE Trades
60. Tropos Motors - ABLE Pickup
61. Tropos Motors - ABLE Cargo

Compact Off-Road Vehicles

- 1. Alke ATX 330E Off Road Electric Vehicle**

Passenger Trains

1. ALWEG Rapid Transit Company – Monorail Passenger Train
2. Altrom - Prima M4 - AZ4A Passenger Locomotives
3. Altrom - Citadis Dualis Tram-Train
4. Altrom - Citadis Spirit Light Rail Vehicle
5. Altrom - Fuel Cell Coradia iLint
6. Altrom - Metropolis Metro
7. Altrom - Translohr Tramway On Tyres
8. Altrom - X'Trapolis Suburban Train
9. Bombardier Transportation
10. Bombardier - Innovia APM 100
11. Bombardier - Innovia APM 200 Automated People Mover System
12. Bombardier - Innovia APM 256
13. Bombardier - Innovia APM 300 Automated People Mover System
14. Bombardier - Innovia Monorail
15. Bombardier - Flexibility Trams
16. Bombardier - Flexibility 2 Trams
17. Bombardier - Flexibility Freedom
18. Bombardier - Flexibility Light Rail Vehicles
19. Bombardier - Single Deck Electric Multiple Units
20. Bombardier - Double-Deck Electric Multiple Units
21. BYD - SkyRail Monorail System
22. CAF - Electric Locomotive BB A 3000V
23. CAF - Electric Locomotive BBB A 3000V
24. CAF - Electric Locomotive C'C' 3.000V
25. CRRC Zhuzhou Locomotive Co. LTD - HX1D AC Rapid Electric Passenger Locomotive
26. CRRC Zhuzhou Locomotive Co. LTD - ERP Passenger
27. CRRC Zhuzhou Locomotive Co. LTD - Maglev Passenger Train
28. Hitachi - AT 100 Metro Dual Voltage
29. Hitachi - AT 200 Commuter Dual Voltage
30. Hitachi - AT 300 Intercity High Speed
31. Hitachi - Monorail Passenger Train
32. Hyundai Rotem - Manned Electric Passenger Trains
33. Hyundai Rotem - Unmanned Electric Passenger Trains
34. Inekon - Trio Low Floor Tram
35. Inekon - 04 Superior Low Floor Tram
36. Inekon - 11 Pento Low Floor Tram
37. JSC Kolomensky Zavoc - EP2K Passenger Electric Locomotive
38. Kawasaki - SWIMO Ultra Low Floor Tramway
39. Kawasaki - JR East 200 Electric Passenger Extreme Cold Weather Train
40. Kawasaki - 05 Series Electric Subway Train
41. Kawasaki - 22 Series Electric Subway Train
42. Kawasaki - 66 Series Electric Subway Train
43. Kawasaki - 70-000 High Speed Electric Rail Train
44. Kawasaki - 2000 Series High Speed Electric Rail Train
45. Kawasaki - 1000 Series Electric Subway Train
46. Kawasaki - 3000 Series Electric Subway Train
47. Kawasaki - 5000 Series Electric Subway Train
48. Kawasaki - 6300 Series Electric Subway Train
49. Kawasaki - 8000 Series Electric Subway Train
50. Kawasaki - 16000 Series Electric Subway Train
51. Kawasaki - R143 Series Electric Subway Train
52. Kawasaki - PA-5 Commuter Electric Train
53. Kawasaki - 30000 Series Electric Railway Train

54. Kawasaki - 1000 Series Monorail Vehicle
55. Kawasaki - efSET Electric High Speed Railway Vehicle
56. Nippon Sharyo - Light Rail Electric Vehicles (LACMTA)
57. Nippon Sharyo - Model 800 Low Floor Light Rail Electric Vehicles
58. Nippon Sharyo - Gallery Type Bi-Level EMU
59. Nippon Sharyo - Highliner Gallery Type Bi-Level EMU
60. Nippon Sharyo - Commuter EMU
61. Nippon Sharyo - AE100 Express EMU
62. Nippon Sharyo - Series 215 EMU
63. Nippon Sharyo - Series 371 Express EMU
64. Nippon Sharyo - Series 683 Express EMU
65. Nippon Sharyo - Series 1700 Express EMU
66. Nippon Sharyo - Series 2000 Electric EMU
67. Nippon Sharyo - Series 2200 Electric EMU
68. Nippon Sharyo - Series 50000 Express EMU
69. Nippon Sharyo - Series 60000 Express EMU
70. Nippon Sharyo - Series 7000 Driverless Tram With Rubber tires
71. Nippon Sharyo - Model HSST-100 Linimo Maglev Train Fully Automated
72. Nippon Sharyo - Model 40 Suspended Monorail
73. Nippon Sharyo - Light Rail Vehicle
74. Patentes Taolgo SI - Electric Locomotive
75. Scoda Electric - Emil Zatopek Electric Passenger Locomotive
76. Scoda Electric - Single Deck Electric Unit Passenger Train
77. Scoda Electric - Double Single Deck Electric Unit Passenger Train
78. Scoda Electric - Monorail Passenger Train
79. Siemens - Avenio Single Articulated Tram Low Floor
80. Siemens - Avenio Single Articulated Tram Low Floor
81. Siemens - Streetcar S70 Light Rail Passenger Train
82. Swiss Stadler Rail Group - FLIRT High Speed Low Floor Multi Unit Passenger Rail
83. Swiss Stadler Rail Group - FLIRT 160 High Speed Low Floor Single Decker Passenger Train
84. Swiss Stadler Rail Group - KISS200 long Distance Double Decker Passenger Train
85. Swiss Stadler Rail Group - TANGO City Train High or Low Floor
86. Swiss Stadler Rail Group - TRAMLINK Multi Link Low Floor Train
87. Titagarh - TSR Lenord Double Deck EMU
88. Titagarh - TAF Double Deck EMU
89. Titagarh - ETR500 High Speed Trainset
90. Titagarh - E403 Electric Loco
91. Titagarh - E404.600 High Speed Electric Loco
92. Titagarh - EMUCVS Articulated Single Deck EMU Metrostar
93. Toshiba - 15E Electric Locomotives
94. Toshiba - 19E Electric Locomotives Dual-Voltage
95. Toshiba - SciB Battery Light Rail Transit
96. Toshiba - HSR High Speed Rail
97. Tulomsas - E68000 Electric Outline Engine Passenger Train
98. WINDHOFF Bahn - und Anlagentechnik GmbH

Note: All electric trains in the Netherlands are now 100% Wind Powered

Freight Train

1. Alstrom - 800 Prima T8 (WAG12)
2. CRRC Zhuzhou Locomotive Co. LTD - HX1F Electric Locomotive
3. CRRC Zhuzhou Locomotive Co. LTD - HX 1B Electric Locomotive
4. CRRC Zhuzhou Locomotive Co. LTD - HX 1C Electric Locomotive

5. CRRC Zhuzhou Locomotive Co. LTD - HX 1 Electric Locomotive
6. CRRC Zhuzhou Locomotive Co. LTD - SS Electric Locomotive
7. CRRC Zhuzhou Locomotive Co. LTD - 22E Dual-Voltage
8. CRRC Zhuzhou Locomotive Co. LTD - 21E Dual-Voltage Narrow
9. CRRC Zhuzhou Locomotive Co. LTD - 20E Dual-Voltage Narrow
10. CRRC Zhuzhou Locomotive Co. LTD - KZ4AC
11. CRRC Zhuzhou Locomotive Co. LTD - O'Z-Y
12. Kawasaki - JR Cargo EF 210 Electric Locomotive
13. Kawasaki - JR Cargo EF 510 Electric Locomotive
14. Kawasaki - JR Freight M 250 Super Rail Cargo Electric Locomotive
15. Kawasaki - 6K Freight Electric Locomotive
16. Schoma Lokomotiven - Electric Tunnel Locomotives
17. Siemens - eHighway Freight System
18. Swiss Stadler Rail Group - NG Shunting Locomotive
19. Swiss Stadler Rail Group - Tailor Made Locomotives
20. Tulomsas - E43000 Electric Locomotive
21. Tulomsas - E1000 Electric Maneuvering Engine
22. Tulomsas - E68000 Electric Outline Engine Freight Train

Passenger Van

1. Green4U Technologies - Passenger Cargo Van
2. GreenPower Motor Co. - EV Star 25' 17 Passenger Van
3. Lightning eMotors - Transit Passenger Van 140 Mile
4. Lightning eMotors - Transit Passenger Van 170 Mile
5. Lightning eMotors - Transit Passenger Van Hydrogen Fuel Cell 250 Mile
6. Mercedes-Benz - eVito Passenger Van
7. Mercedes-Benz - EQV 6 Passenger Van
8. Mercedes-Benz - EQV 7 Passenger Van
9. Mercedes-Benz - EQV 8 Passenger Van
10. VIA - Passenger Van
11. Zenith Motors - Electric Passenger Van

Passenger/Shuttle Buses

1. Altram – Aptis Electric Bus
2. Ameritrans Bus - All-Electric Motiv ePCS On Ford E450 Chassis 25 Passenger Shuttle Bus
3. Advanced Vehicle Manufacturing (AVM) - All Electric Mid-Size Shuttle Bus EV21
4. Advanced Vehicle Manufacturing (AVM) - All Electric Mid-Size Shuttle Bus EV27
5. Advanced Vehicle Manufacturing (AVM) - All Electric Mid-Size Shuttle Bus EV33
6. BYD Motors - C6 23-Ft Zero-Emission Electric Motor Coach
7. BYD Motors - K7M 30-Ft All Electric Zero-Emission Transit Bus
8. BYD Motors - K9s 35-Ft Zero-Emission Transit Bus
9. BYD Motors - K9M 40-Ft All Electric Zero-Emission Transit Bus
10. BYD Motors - K9S 40-Ft All Electric Zero-Emission Transit Bus
11. BYD Motors - C9 40-Foot Zero-Emission Electric Motor Coach
12. BYD Motors - C10M 45-Ft Articulated All Electric Coach
13. BYD Motors - K11M 60-Ft Articulated All Electric Zero-Emission Transit Bus
14. BYD ADL Enviro400EV Electric Double Decker Bus
15. Gillig - Battery Electric Bus
16. Green4U Technologies - Shuttle Bus
17. Green4U Technologies - Touring Bus
18. GreenPower - AV Star Shuttle
19. GreenPower - EV250 30-Foot All Electric Bus
20. GreenPower - EV350 40-Foot All Electric Bus
21. GreenPower - EV550 40-Foot All Electric Double Decker Bus
22. GreenPower - SYNAPSE 72 All Electric Shuttle Bus

23. International IC Bus - IC charge All-Electric Bus
24. Irizar Group - e-Mobility ie Bus 10.8
25. Irizar Group - e-Mobility ie Bus 12
26. Irizar Group - e-Mobility ie Bus 15
27. Irizar Group - e-Mobility ie Bus 18
28. Irizar Group - e-Mobility ie Tram Bus 12m
29. Irizar Group - e-Mobility ie Tram Bus 18m
30. Lightning eMotors - F-450 Shuttle
31. Lightning eMotors - F-550 Shuttle Bus 100 Mile
32. Lion- Class 6 Electric LIONM Shuttle Bus
33. Kamaz - 6282 Electric Articulated Bus
34. Mercedes-Benz - eCitaro City Bus
35. Motiv Power Systems - EPIC 4 Passenger Bus
36. Motiv Power Systems - EPIC 6 Passenger Bus
37. Motor Coach Industries - D45 CRT LE Charge
38. Motor Coach Industries - J4500 Charge
39. New Flyer - Xcelior XE 35 Bus With Lithion-Ion Battery Pack
40. New Flyer - Xcelior XE 40 Bus With Lithion-Ion Battery Pack
41. New Flyer - Xcelior XE 60 Bus With Lithion-Ion Battery Pack
42. Novabus - LFSe Electric Bus 40'
43. Novabus - LFSe+ Electric Bus 40'
44. Optimal EV - S1LF Shuttle
45. Phoenix Motorcars - ZEUS 400 Zero Emissions Shuttle Bus
46. Proterra - Catalyst FC 35-Foot Urban Transit Bus
47. Proterra - Catalyst XR 35-Foot Urban Transit Bus
48. Proterra - Catalyst E2 35-Foot Urban Transit Bus
49. Proterra - Catalyst FC 40-Foot Urban Transit Bus
50. Proterra - Catalyst XR 40-Foot Urban Transit Bus
51. Proterra - Catalyst E2 40-Foot Urban Transit Bus
52. Proterra - ZX5 35' Electric Bus
53. Proterra - ZX5 40' Electric Bus
54. Sea Electric - SEA E4B Commuter Bus
55. Solaris - Urbino 8 LE Electric Bus
56. Solaris - Urbino 9 LE Electric Bus
57. Solaris - Urbino 12 LE Electric Bus
58. Solaris - Urbino 18 LE Electric Bus
59. Toshiba - Sora FC EV Bus
60. Van Hool - CX45E Electric Coach
61. VDL Bus & Coach - Citea SLF-120 Electric Bus
62. VDL Bus & Coach - Citea SLF-121 Electric Bus
63. VDL Bus & Coach - Citea SLFA-180 Electric Bus
64. VDL Bus & Coach - Citea SLFA-181 Electric Bus
65. VDL Bus & Coach - Citea SLFA-187 Electric Bus
66. VDL Bus & Coach - Citea LLE - 99 Electric Bus
67. Volvo - 7900 Electric Articulated Bus
68. Zenith Motors - Electric Mini Bus
69. Zenith Motors - Electric Shuttle 9 Passenger Van
70. Zenith Motors - Electric Shuttle 16 Passenger Van

Automated Passenger Bus

1. New Flyer - Xcelior AV 40'

Compact Shuttle/MiniBus

1. Columbia - 6 Passenger Shuttle
2. Columbia - MVP 14 Passenger Shuttle
3. EMOSS - MB4 - 7 Passenger Electric Minibus
4. EMOSS - MB14 - 15 Passenger Electric Minibus
5. EMOSS - MB15 - 15 Passenger Electric Minibus
6. EMOSS - MB16 - 16 Passenger Electric Minibus
7. Hyundai - County Electric Minibus
8. Lightning eMotors - E-450 Shuttle Bus 80 Mile
9. Lightning eMotors - E-450 Shuttle Bus 120 Mile
10. Motiv - Epic E-450 Shuttle
11. Moto Electric Vehicles - MotoEV Electro Transit Buddy 9 Passenger
12. Moto Electric Vehicles - MotoEV Electro Transit Buddy 9 Passenger Hard Door
13. Moto Electric Vehicles - MotoEV Electro Transit Buddy 11 Passenger ADA
14. Moto Electric Vehicles - MotoEV Electro Transit Buddy 12 Passenger
15. Moto Electric Vehicles - MotoEV Electro Transit Buddy 12 Passenger Hard Door
16. Moto Electric Vehicles - MotoEV Electro Transit Buddy 15 Passenger
17. Moto Electric Vehicles - MotoEV Electro Transit Buddy 15 Passenger Hard Door
18. Moto Electric Vehicles - MotoEV Electro Transit Buddy 15 Passenger XE Hard Door
19. Moto Electric Vehicles - MotoEV Electro Transit Buddy 15 Passenger LE Hard Door
20. Moto Electric Vehicles - MotoEV Electro Transit Buddy 15 Passenger ADA
21. Moto Electric Vehicles - MotoEV Electro Transit Buddy 15 Passenger Wheelchair
22. Moto Electric Vehicles - MotoEV Electro Transit Buddy 23 Passenger
23. Moto Electric Vehicles - MotoEV Electro Transit Buddy 27 Passenger ADA
24. Moto Electric Vehicles - MotoEV Electro Transit Buddy 28 Passenger Tram
25. Moto Electric Vehicles - MotoEV Electro Transit Buddy 28 Passenger Hard Door Tram
26. Phoenix Motors - ZEUS 400 Shuttle Bus

Autonomous Shuttle/Bus

1. Sensible4 - Gacha Autonomous Shuttle Bus
2. Toyota - e-Palette Autonomous Mobile as a Service (Autono-MaaS) Shuttle Bus

School Buses

1. ADOMANI - Electric School Bus
2. Blue Bird - Type D RE Electric School Bus
3. Blue Bird - Type A Micro Bird G5 Electric School Bus
4. BYD 35' School Bus
5. BYD 38" School Bus
6. BYD 40' School Bus
7. Creative Bus Sales Inc. - Type C Motiv All-Electric Powertrain With Ford F59 Starcraft School Bus
8. GreenPower – BEAST (Battery Electric Automotive School Transportation) 40'
9. GreenPower - SYNAPSE 72 All Electric School Bus
10. LION Electric - eLion Type C School Bus
11. Motiv Power Systems - eQuest XL All-Electric Powertrain With Ford F59 Starcraft School Bus
12. Motiv Power Systems - EPIC 4 Type A School Bus
13. Motiv Power Systems - EPIC 5
14. Motiv Power Systems - EPIC 6 Type C School Bus
15. Motiv - Epic E-450 School Bus
16. Navistar - IC School Bus CE Series
17. Thomas Built Buses/Daimler - Saf-T-Liner C2 Jouley Electric School Bus

18. Transpower - Type C Transit School Bus
19. Trans Tech Bus - SStE - Motiv ePCS On Ford E450 Chassis School Bus
20. Phoenix Motors - ZEUS 600 School Bus

Taxi

1. BYD - E6 Electric Taxi
2. Electric Cab North America - Micro Transit Shuttles
3. Nissan LEAF Electric Taxi

Underground Mining Equipment

1. Epiroc - Scooptram ST7 Battery Electric Loader
2. Epiroc - Scooptram EST1030 Electric Loader
3. Epiroc - Scooptram EST2D Electric Loader
4. Epiroc - Scooptram EST3.5 Electric Loader
5. Epiroc - Minetruck MT2010
6. Epiroc - Minetruck MT42
7. Epiroc - Boomer E2 Battery Face Drill Rig

Cargo Ship

1. Kawasaki Heavy Industries - Hydrogen Frontier Hydrogen Fuel Cell 8,000 Ton Electric Cargo Carrier Ship
2. Guangzhou Shipyard International Company Ltd. - All Electric 2,200 Ton Cargo Ship
3. PortLiner - EC52-1 Inland Waterway Bulk 400/1,000 Ton Ship
4. PortLiner - EC52-1 Inland Waterway 24/36 TEU Container Ship
5. PortLiner - EC110 Inland Waterway Bulk 7,000 Ton Ship
6. PortLiner - EC110 Inland Waterway 280 TEU Container Ship

Cargo/Container Barge

1. **Heineken - Alphenaar Electric Inland Barge**
2. Port Liner - All-Electric Container Barge
3. **Wartsila - Electric Cargo Barge**

Cruise Barge

1. **The Electric Barge - Cruise/Floating Classroom Barge**

Autonomous Container Ship

1. Vard Braila - All-Electric Container Ship

Cruise Ship

1. **AIDAperla - German Cruise Line**

Fishing Boats

1. **Siemens Energy - Karoline Electric Fishing Boat**
2. **Siemens Energy - Elfrida Electric Fish Farming Boat**

Car Ferry

1. **E-Ferry - Ellen Electric Car Ferry**

2. ForSea Ferries - M/F Tycho Brahe Electric Car Ferry
3. Fjellstrand - MV Ampere Electric Car Ferry
4. NavAlt Solar & Electric Boats - Aditya Solar-Powered Passenger Ferry

Autonomous Car Ferry

1. Mitsubishi Heavy Industries - SOLEIL Car Ferry

Passenger Ferry

1. Damen - Electric 80 Passenger Ferry 2306
2. Danfoss - Passenger Ferry
3. **E-Ferry - Ellen Electric Passenger Ferry**
4. Energy Absolute - Passenger Ferry
5. Fjellstrand - Electric Passenger Ferry
6. Sterling PlanB Energy Solutions - Electric Passenger Ferry

Pilot Boat

1. Robert Allan Ltd. – 52’ Rally 1600-E All-Electric Pilot Boat

RORO Passenger/Vehicle Ferry

1. Terson Shipyard - RORO Passenger/vehicle Ferry

Sight Seeing Boat

1. **The Fjords/Broddrene Aa - Vision of the Fjords Passenger Sightseeing Boat**

Tanker Ship

1. Asahi Tanker/Corvus Energy - e5 All-Electric Lithium-Ion Battery Tanker

Tug Boat

1. Crowley - 82’ Ship Assist Electric Tug THS-08240, 70 Short Ton Bollard Pull
2. Damen Shipyards - 81’ Damen RSD-E Tug 2513, 70 Ton Bollard Pull
3. **Lianyungang Port Holding Group - Yungang Electric Tug No. 1**
4. Navtek Naval Technologies - ZEETUG, Gisas Power 32 Ton Bollard Pull

Electric Boats Note

1. **There are several consumer recreational electric boat manufacturers.**

- Note:
1. CFASE conducts periodic searches for all vehicles and equipment that are zero emissions. Our survey is the most comprehensive document of zero emission technologies.
 2. CFASE contacted the manufacturer directly to obtain information or information was available on the manufacturer website.
 3. Commercially Available means that the manufacturer is accepting orders for delivery to customer in less than one year. Time of delivery can vary due to the type and number of vehicles ordered.
 4. Vehicles, CHE and Equipment can be new or used and be retrofitted to be zero emission.

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