**Sensitivity Analysis:**  
**Results Thresholds**

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2574

Average Delivery Cycle Time: 1.096 Hours

% Deliveries Completed: 95.458%

Average Vehicle Distance per Delivery: 33.677 km/order

Total Fleet Distance Traveled: 102,765.02 km

Overall Vehicle Utilization Rate: 57.097% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 132.639 Minutes

Maximum EV Wait Time: 430 Minutes

Average H2V Wait Time (Queuers Only): 1.5 Minutes

Maximum H2V Wait Time: 2 Minutes

Average EV Charger Utilization: 5.683 %

Average H2V Pump Utilization: 2.604 %

Number of Failed EV Charges (No resource on arrival): 336

Number of Failed H2 Refuels (No resource on request): 3

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 36,425.29 kWh

Total Hydrogen Consumed (Refueling): 256.487 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,694.434 kg CO2

EV Grid Electricity Emissions (est.): 8,498.02 kg CO2

H2 Production Emissions (est.): 2,564.875 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 11,062.895 kg CO2

Estimated Total CO2 Saved: 13,631.539 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 434.0

Number of Infeasible H2V Trips (Range Limit): 40

Total Infeasible Trips (Range Limit): 474.0

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END OF SIMULATION REPORT

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2516

Average Delivery Cycle Time: 1.087 Hours

% Deliveries Completed: 95.501%

Average Vehicle Distance per Delivery: 33.355 km/order

Total Fleet Distance Traveled: 99,749.073 km

Overall Vehicle Utilization Rate: 56.461% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 120.895 Minutes

Maximum EV Wait Time: 434 Minutes

Average H2V Wait Time (Queuers Only): 1 Minutes

Maximum H2V Wait Time: 1 Minutes

Average EV Charger Utilization: 5.493 %

Average H2V Pump Utilization: 2.372 %

Number of Failed EV Charges (No resource on arrival): 345

Number of Failed H2 Refuels (No resource on request): 1

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 35,978.517 kWh

Total Hydrogen Consumed (Refueling): 237.128 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 23,969.702 kg CO2

EV Grid Electricity Emissions (est.): 8,393.788 kg CO2

H2 Production Emissions (est.): 2,371.281 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,765.069 kg CO2

Estimated Total CO2 Saved: 13,204.633 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 336.0

Number of Infeasible H2V Trips (Range Limit): 37

Total Infeasible Trips (Range Limit): 373.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2508

Average Delivery Cycle Time: 1.085 Hours

% Deliveries Completed: 94.457%

Average Vehicle Distance per Delivery: 33.036 km/order

Total Fleet Distance Traveled: 99,043.827 km

Overall Vehicle Utilization Rate: 56.577% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 119.641 Minutes

Maximum EV Wait Time: 458 Minutes

Average H2V Wait Time (Queuers Only): 0 Minutes

Maximum H2V Wait Time: 0 Minutes

Average EV Charger Utilization: 5.666 %

Average H2V Pump Utilization: 2.004 %

Number of Failed EV Charges (No resource on arrival): 354

Number of Failed H2 Refuels (No resource on request): 0

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 35,296.002 kWh

Total Hydrogen Consumed (Refueling): 213.085 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 23,800.232 kg CO2

EV Grid Electricity Emissions (est.): 8,234.557 kg CO2

H2 Production Emissions (est.): 2,130.849 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,365.406 kg CO2

Estimated Total CO2 Saved: 13,434.826 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 289.0

Number of Infeasible H2V Trips (Range Limit): 34

Total Infeasible Trips (Range Limit): 323.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2536

Average Delivery Cycle Time: 1.117 Hours

% Deliveries Completed: 94.436%

Average Vehicle Distance per Delivery: 33.736 km/order

Total Fleet Distance Traveled: 101,745.055 km

Overall Vehicle Utilization Rate: 57.278% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 119.453 Minutes

Maximum EV Wait Time: 413 Minutes

Average H2V Wait Time (Queuers Only): 1.5 Minutes

Maximum H2V Wait Time: 2 Minutes

Average EV Charger Utilization: 5.553 %

Average H2V Pump Utilization: 3.021 %

Number of Failed EV Charges (No resource on arrival): 400

Number of Failed H2 Refuels (No resource on request): 3

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 36,675.506 kWh

Total Hydrogen Consumed (Refueling): 290.554 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.017 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,449.337 kg CO2

EV Grid Electricity Emissions (est.): 8,556.396 kg CO2

H2 Production Emissions (est.): 2,905.544 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 11,461.939 kg CO2

Estimated Total CO2 Saved: 12,987.397 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 214.0

Number of Infeasible H2V Trips (Range Limit): 44

Total Infeasible Trips (Range Limit): 258.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2627

Average Delivery Cycle Time: 1.047 Hours

% Deliveries Completed: 96.364%

Average Vehicle Distance per Delivery: 33.421 km/order

Total Fleet Distance Traveled: 103,841.99 km

Overall Vehicle Utilization Rate: 54.762% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 120.06 Minutes

Maximum EV Wait Time: 488 Minutes

Average H2V Wait Time (Queuers Only): 0 Minutes

Maximum H2V Wait Time: 0 Minutes

Average EV Charger Utilization: 5.424 %

Average H2V Pump Utilization: 2.44 %

Number of Failed EV Charges (No resource on arrival): 305

Number of Failed H2 Refuels (No resource on request): 0

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 36,756.155 kWh

Total Hydrogen Consumed (Refueling): 241.178 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,953.23 kg CO2

EV Grid Electricity Emissions (est.): 8,575.211 kg CO2

H2 Production Emissions (est.): 2,411.778 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,986.989 kg CO2

Estimated Total CO2 Saved: 13,966.241 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 475.0

Number of Infeasible H2V Trips (Range Limit): 36

Total Infeasible Trips (Range Limit): 511.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2624

Average Delivery Cycle Time: 1.051 Hours

% Deliveries Completed: 95.66%

Average Vehicle Distance per Delivery: 33.411 km/order

Total Fleet Distance Traveled: 103,694.311 km

Overall Vehicle Utilization Rate: 56.755% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 117.358 Minutes

Maximum EV Wait Time: 438 Minutes

Average H2V Wait Time (Queuers Only): 1 Minutes

Maximum H2V Wait Time: 1 Minutes

Average EV Charger Utilization: 5.451 %

Average H2V Pump Utilization: 2.505 %

Number of Failed EV Charges (No resource on arrival): 331

Number of Failed H2 Refuels (No resource on request): 1

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 36,702.18 kWh

Total Hydrogen Consumed (Refueling): 244.295 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,917.743 kg CO2

EV Grid Electricity Emissions (est.): 8,562.619 kg CO2

H2 Production Emissions (est.): 2,442.95 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 11,005.569 kg CO2

Estimated Total CO2 Saved: 13,912.174 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 414.0

Number of Infeasible H2V Trips (Range Limit): 34

Total Infeasible Trips (Range Limit): 448.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2560

Average Delivery Cycle Time: 1.078 Hours

% Deliveries Completed: 95.986%

Average Vehicle Distance per Delivery: 33.677 km/order

Total Fleet Distance Traveled: 101,827.568 km

Overall Vehicle Utilization Rate: 56.568% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 115.441 Minutes

Maximum EV Wait Time: 441 Minutes

Average H2V Wait Time (Queuers Only): 4 Minutes

Maximum H2V Wait Time: 4 Minutes

Average EV Charger Utilization: 5.611 %

Average H2V Pump Utilization: 2.707 %

Number of Failed EV Charges (No resource on arrival): 328

Number of Failed H2 Refuels (No resource on request): 4

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 35,937.408 kWh

Total Hydrogen Consumed (Refueling): 266.14 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.017 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,469.164 kg CO2

EV Grid Electricity Emissions (est.): 8,384.197 kg CO2

H2 Production Emissions (est.): 2,661.402 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 11,045.6 kg CO2

Estimated Total CO2 Saved: 13,423.565 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 323.0

Number of Infeasible H2V Trips (Range Limit): 37

Total Infeasible Trips (Range Limit): 360.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2512

Average Delivery Cycle Time: 1.087 Hours

% Deliveries Completed: 94.608%

Average Vehicle Distance per Delivery: 33.486 km/order

Total Fleet Distance Traveled: 100,533.164 km

Overall Vehicle Utilization Rate: 56.674% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 115.359 Minutes

Maximum EV Wait Time: 458 Minutes

Average H2V Wait Time (Queuers Only): 0 Minutes

Maximum H2V Wait Time: 0 Minutes

Average EV Charger Utilization: 5.633 %

Average H2V Pump Utilization: 2.156 %

Number of Failed EV Charges (No resource on arrival): 368

Number of Failed H2 Refuels (No resource on request): 0

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 36,522.718 kWh

Total Hydrogen Consumed (Refueling): 224.524 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,158.119 kg CO2

EV Grid Electricity Emissions (est.): 8,520.75 kg CO2

H2 Production Emissions (est.): 2,245.237 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,765.987 kg CO2

Estimated Total CO2 Saved: 13,392.132 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 292.0

Number of Infeasible H2V Trips (Range Limit): 35

Total Infeasible Trips (Range Limit): 327.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2465

Average Delivery Cycle Time: 1.134 Hours

% Deliveries Completed: 95.284%

Average Vehicle Distance per Delivery: 34.82 km/order

Total Fleet Distance Traveled: 102,106.189 km

Overall Vehicle Utilization Rate: 57.101% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 113.987 Minutes

Maximum EV Wait Time: 413 Minutes

Average H2V Wait Time (Queuers Only): 1.5 Minutes

Maximum H2V Wait Time: 2 Minutes

Average EV Charger Utilization: 5.78 %

Average H2V Pump Utilization: 1.79 %

Number of Failed EV Charges (No resource on arrival): 401

Number of Failed H2 Refuels (No resource on request): 3

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 38,421.53 kWh

Total Hydrogen Consumed (Refueling): 194.124 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,536.117 kg CO2

EV Grid Electricity Emissions (est.): 8,963.743 kg CO2

H2 Production Emissions (est.): 1,941.242 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,904.984 kg CO2

Estimated Total CO2 Saved: 13,631.133 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 224.0

Number of Infeasible H2V Trips (Range Limit): 30

Total Infeasible Trips (Range Limit): 254.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2629

Average Delivery Cycle Time: 1.025 Hours

% Deliveries Completed: 96.265%

Average Vehicle Distance per Delivery: 32.975 km/order

Total Fleet Distance Traveled: 102,389.634 km

Overall Vehicle Utilization Rate: 54.39% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 120.872 Minutes

Maximum EV Wait Time: 488 Minutes

Average H2V Wait Time (Queuers Only): 0 Minutes

Maximum H2V Wait Time: 0 Minutes

Average EV Charger Utilization: 5.351 %

Average H2V Pump Utilization: 2.816 %

Number of Failed EV Charges (No resource on arrival): 290

Number of Failed H2 Refuels (No resource on request): 0

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 35,048.746 kWh

Total Hydrogen Consumed (Refueling): 266.251 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,604.229 kg CO2

EV Grid Electricity Emissions (est.): 8,176.872 kg CO2

H2 Production Emissions (est.): 2,662.508 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,839.38 kg CO2

Estimated Total CO2 Saved: 13,764.849 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 462.0

Number of Infeasible H2V Trips (Range Limit): 38

Total Infeasible Trips (Range Limit): 500.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2595

Average Delivery Cycle Time: 1.048 Hours

% Deliveries Completed: 95.749%

Average Vehicle Distance per Delivery: 33.008 km/order

Total Fleet Distance Traveled: 101,710.105 km

Overall Vehicle Utilization Rate: 56.436% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 117.402 Minutes

Maximum EV Wait Time: 438 Minutes

Average H2V Wait Time (Queuers Only): 1 Minutes

Maximum H2V Wait Time: 1 Minutes

Average EV Charger Utilization: 5.611 %

Average H2V Pump Utilization: 2.172 %

Number of Failed EV Charges (No resource on arrival): 315

Number of Failed H2 Refuels (No resource on request): 1

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 36,295.424 kWh

Total Hydrogen Consumed (Refueling): 223.599 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,440.938 kg CO2

EV Grid Electricity Emissions (est.): 8,467.722 kg CO2

H2 Production Emissions (est.): 2,235.993 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,703.716 kg CO2

Estimated Total CO2 Saved: 13,737.223 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 405.0

Number of Infeasible H2V Trips (Range Limit): 30

Total Infeasible Trips (Range Limit): 435.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2518

Average Delivery Cycle Time: 1.058 Hours

% Deliveries Completed: 94.962%

Average Vehicle Distance per Delivery: 33.046 km/order

Total Fleet Distance Traveled: 99,447.157 km

Overall Vehicle Utilization Rate: 55.811% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 122.224 Minutes

Maximum EV Wait Time: 434 Minutes

Average H2V Wait Time (Queuers Only): 3 Minutes

Maximum H2V Wait Time: 3 Minutes

Average EV Charger Utilization: 5.518 %

Average H2V Pump Utilization: 2.249 %

Number of Failed EV Charges (No resource on arrival): 326

Number of Failed H2 Refuels (No resource on request): 3

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 34,866.563 kWh

Total Hydrogen Consumed (Refueling): 239.966 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 23,897.152 kg CO2

EV Grid Electricity Emissions (est.): 8,134.369 kg CO2

H2 Production Emissions (est.): 2,399.658 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,534.027 kg CO2

Estimated Total CO2 Saved: 13,363.125 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 334.0

Number of Infeasible H2V Trips (Range Limit): 31

Total Infeasible Trips (Range Limit): 365.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2458

Average Delivery Cycle Time: 1.065 Hours

% Deliveries Completed: 94.14%

Average Vehicle Distance per Delivery: 32.656 km/order

Total Fleet Distance Traveled: 96,242.364 km

Overall Vehicle Utilization Rate: 55.726% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 119.526 Minutes

Maximum EV Wait Time: 458 Minutes

Average H2V Wait Time (Queuers Only): 0 Minutes

Maximum H2V Wait Time: 0 Minutes

Average EV Charger Utilization: 5.593 %

Average H2V Pump Utilization: 2.67 %

Number of Failed EV Charges (No resource on arrival): 358

Number of Failed H2 Refuels (No resource on request): 0

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 33,500.931 kWh

Total Hydrogen Consumed (Refueling): 259.621 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.018 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 23,127.04 kg CO2

EV Grid Electricity Emissions (est.): 7,815.767 kg CO2

H2 Production Emissions (est.): 2,596.214 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,411.982 kg CO2

Estimated Total CO2 Saved: 12,715.059 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 271.0

Number of Infeasible H2V Trips (Range Limit): 37

Total Infeasible Trips (Range Limit): 308.0

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HyBridge SIMULATION FINAL KPI REPORT

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--- Delivery Performance ---

Total Deliveries Completed: 2441

Average Delivery Cycle Time: 1.127 Hours

% Deliveries Completed: 93.796%

Average Vehicle Distance per Delivery: 34.178 km/order

Total Fleet Distance Traveled: 99,949.601 km

Overall Vehicle Utilization Rate: 57.094% (Time Active)

--- Infrastructure Use ---

Average EV Wait Time (Queuers Only): 122.658 Minutes

Maximum EV Wait Time: 431 Minutes

Average H2V Wait Time (Queuers Only): 4 Minutes

Maximum H2V Wait Time: 4 Minutes

Average EV Charger Utilization: 5.462 %

Average H2V Pump Utilization: 2.497 %

Number of Failed EV Charges (No resource on arrival): 427

Number of Failed H2 Refuels (No resource on request): 4

--- Energy/Fuel Consumption ---

Total Electricity Consumed (Charging): 36,405.915 kWh

Total Hydrogen Consumed (Refueling): 250.3 kg

Average EV Driving Consumption: 0.6 kWh/km

Average H2V Driving Consumption: 0.017 kg/km

--- Environmental Impact ---

Baseline Diesel Emissions (est.): 24,017.889 kg CO2

EV Grid Electricity Emissions (est.): 8,493.5 kg CO2

H2 Production Emissions (est.): 2,502.997 kg CO2

Total Actual Emissions (Grid + H2 Prod.): 10,996.497 kg CO2

Estimated Total CO2 Saved: 13,021.392 kg CO2

--- Operational ---

Number of Infeasible EV Trips (Range Limit): 211.0

Number of Infeasible H2V Trips (Range Limit): 35

Total Infeasible Trips (Range Limit): 246.0

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END OF SIMULATION REPORT

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