

Public Transport Affaires Department

Qatar Electric Bus Transition Plan

Transition and Implementation

May 2025

Executive Summary

In accordance with the 2019 Directives to transform public transport bus system to electric by 2030, the Ministry of Transport has engaged with relevant stakeholders to develop a plan that meets the transition directives, achieves the MOT strategic initiatives in the Qatar Bus Routes Operational Plan and delivers an optimized legacy utilization solution for the bus fleet previously procured for the operations of FIFA World Cup 2022 (FWC).

MOT has updated the Electric Bus Transition and Implementation Plan, to achieve the following:

- ✓ Compliance with the directives and promoting of Qatar as a leader in clean energy buses.
- ✓ 100% legacy value for Qatar's FWC fleet for public transportation and school bus operations.
- ✓ Qatar is the first country in the region with 787 operational electric public buses for public transport operations by Q2 2025.
- ✓ Qatar is also the first country in the region with an operational 24 electric articulated buses.
- ✓ Public Buses (PSV) will be 74% electric by Q2 2025 and 100% electric by Q4 2030.
- ✓ 5 new electric Bus Depots and 9 Bus Stations are fully completed and operational.
- ✓ A gradual transition of all school buses to electric buses by Q4 2030.
- ✓ Qatar is establishing the region's first commercial electric bus assembly plant in 2025.

Bus Stations

Bus Stations

Site Name	Parking Bays	Pantograph	Gun Chargers
Al Sudan	7	1	2
Lusail	9	1	2
Education City	7	2	2
Al Wakra	15	1	2
Industrial Area	28	2	3
Musheireb	10	1	2
Al Gahraffah	26	4	4
West Bay	6	1	2
Al Khor	11	3	1

TYPICAL BUS STATION



Bus Depots

Bus Depots

Depot Name	Parking Bays	Pantograph	Gun Chargers	Depot Type
Al Wakra	248	4	73	Electric
Industrial Area	300	2	26	Electric
Al Rayyan	380	4	191	Electric
Lusail	478	4	238	Electric
Lusail Articulated buses	25	0	25	Electric
Mesaimeer	924	0	150	Under Electrification Process
Al Khor	404	0	60	Under Electrification Process
Aba Al Seleel	1028	0	-	Non-Electric

Electric Bus Depots

Al Wakra



Plot Size: (248 Bus Parking)	128,177 m ²
Power Demand:	18.0 MW

New Industrial Area



Plot Size: (300 Bus Parking)	161,932 m ²
Power Demand:	21.0 MW

Al Rayyan



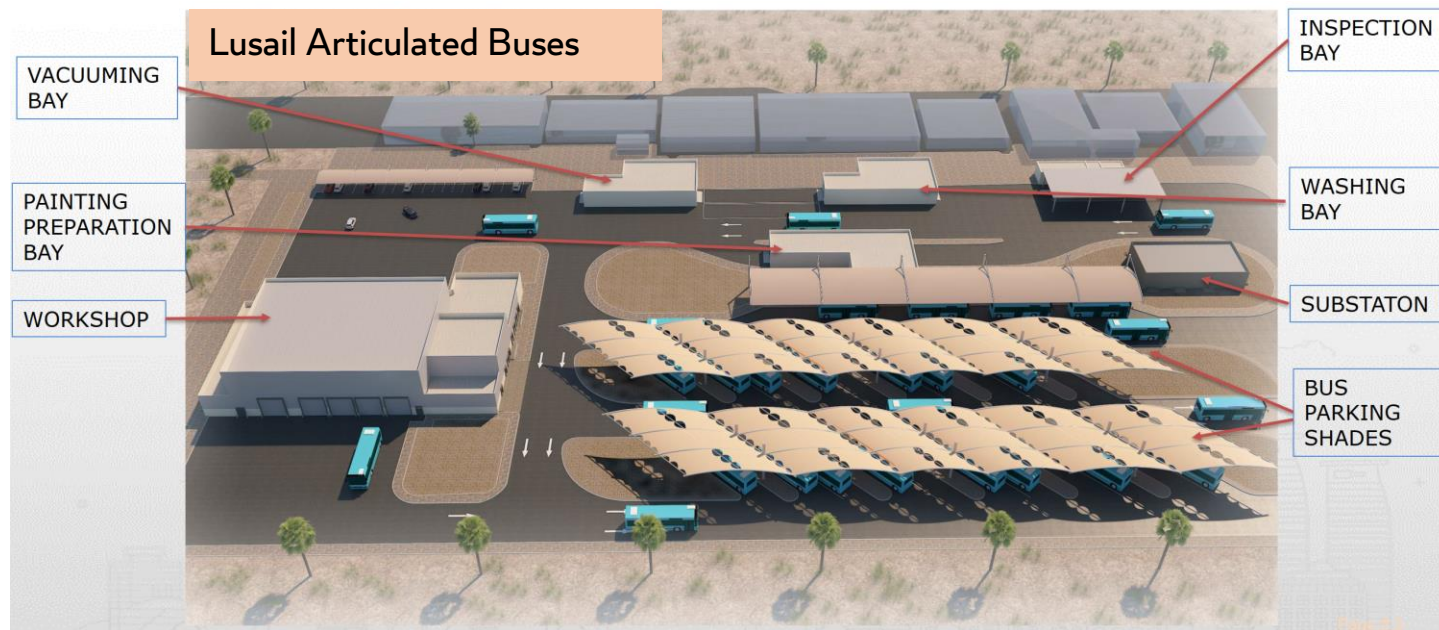
Plot Size: (380 Bus Parking)	190,500 m ²
Power Demand:	25.0 MW

Lusail



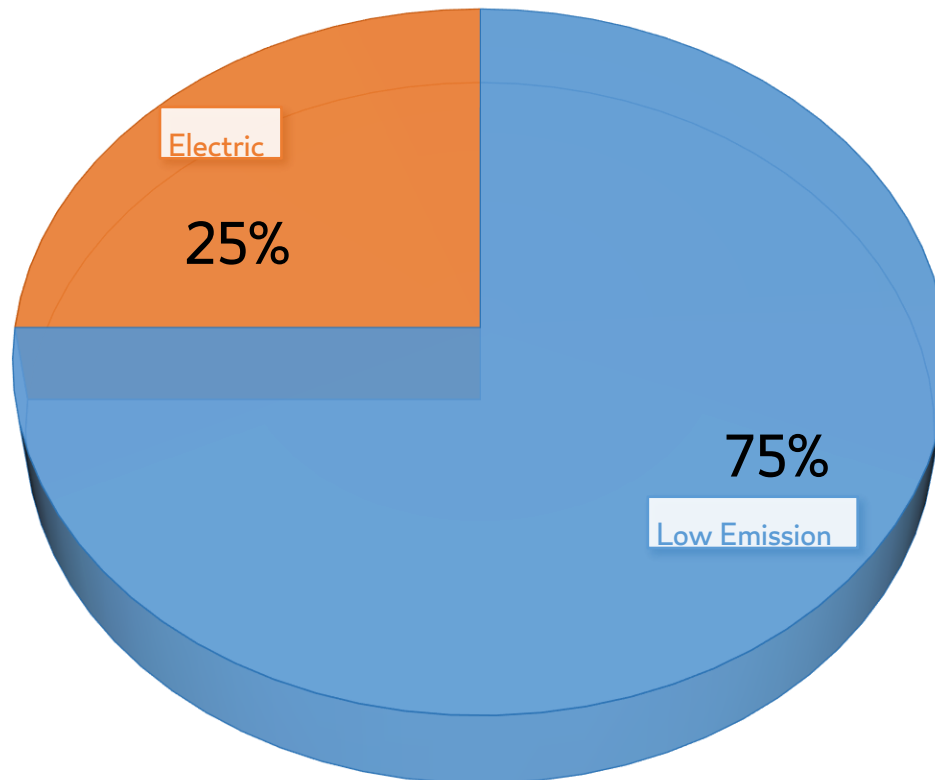
Plot Size: (474 Bus Parking)	176,685 m ²
Power Demand:	31.0 MW

Electric Bus Depots



Electric Bus Transition Plan

Qatar's FWC fleet Q4 2022





Outline of Plan – First Electric Buses in Q4 2022


PSV/Metro Bus 750

 City Bus / Transit 12m 470

 Metrolink Fleet 190

 Electric Feeder minibus style
12 + seat (6-7m) 60


 Electric Feeder Transit Style
20 + seat (8-9m) 30

 Depots Al Wakra /
New Industrial / Al
Rayyan / Lusail
Parking only

12% Electric






**First operational electric
buses for public transport
Operations in the region**

School Bus 2000

 Existing Diesel School
Bus 2000

Outline of Plan During Qatar FIFA World Cup 2022

PSV/Metro/Articulated Bus 750







	Electric Feeder minibus style 12 + seat (6-7m) 60
	Electric Feeder Transit Style 20 + seat (8-9m) 30
	City Bus / Transit 12m 470
	Metrolink Fleet 190
	Al Wakra/New Industrial Completed electric Depot

25% of FWC Qatar TBS are Electric


75% of FWC Qatar TBS are Euro 5

FWC Bus (TBS*)- 3038

All buses used during FWC

	Diesel Transit 185
	Diesel Coaches 261
	Diesel Euro 5 School Bus 1630
	Electric Coach style 50 seat 68
	Electric Transit style 30+ seat (10-11m) 673
	<i>Diesel Sprinter Accessible Vans</i> 45
	FIFA Fleet 176
	(TBC)
	Al Rayyan/Lusail Completed electric Depot

School Bus 2000

	Existing Diesel School Bus 2000
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*TBS: Tournament Bus Service



FIFA WORLD CUP
Qatar 2022

1. PSV/Metro/Articulated (Post FWC)

Outline of Plan for Optimizing Qatar 2022 FIFA World Cup Legacy in Q2,2023



FWC Bus (TBS)- 2862



Diesel Transit 185



Electric Transit style 30+
seat (10-11m) 673

*Diesel Sprinter Accessible
Vans* 45



Electric Coach style
50 seat 68



Diesel Coaches 261



New Diesel Euro 5 School
Bus 1630

Transferring part of the buses
from TBS to PSV/Metro/Articulated Bus

**67.7% of Public
Buses are Electric**

PSV/Metro/Articulated Bus-689



PSV/Metro Buses 153



*PSV/Metro Electric Transit
style 30+ seat (10-11m) 364*

*Diesel Sprinter Accessible
Vans* 45



Electric Feeder minibus style
12 + seat (6-7m) 60



Electric Feeder Transit Style
20 + seat (8-9m) 30



Electric Articulated Buses 13

New Metro Diesel City bus T51 24










City Bus / Transit 12m 200

Outline of Plan for Optimizing Qatar 2022 FIFA World Cup Legacy in Q2,2025



PSV/Metro/Articulated Bus-1066

	PSV/Metro Electric Transit style+30 seat (10-11m)	673
	Electric Feeder minibus style +12 seat (6-7m)	60
	Electric Feeder Transit Style+20 seat (8-9m)	30
	<i>Diesel Sprinter Accessible Vans</i>	50
	PSV/Metro Buses (11m) (Diesel)	185
	PSV Buses (Diesel) (12m)	20
	New Metro Diesel City bus T51	24
	Articulated Buses	24
	<i>Depots Al Wakra / Lusail / Rayyan / New Industrial</i>	

74% of Public Buses is Electric by Q2 2025

Q2 2025	
Electric Buses	787
Total Public Transit Fleet	1066
% of EVs as % of Overall PT Fleet	74%

Outline of Plan Post Legacy Transition 2030

PSV/Metro/Articulated Bus-1066



PSV/Metro Buses
(11m & 12m) 205

Diesel Sprinter Accessible Vans 50

New Metro Diesel City bus T51 24

2030



**To be replaced with electric
buses**



Electric Feeder minibus style 12
+ seat (6-7m) 60



Electric Feeder Transit Style 20
+ seat (8-9m) 30



Electric Articulated Buses 24



PSV/Metro Electric Transit
style 30+ seat (10-11m) 673



Depots Al Wakra / Lusail /
Rayyan / New Industrial /
Lusail Articulated Depot






100% of Public Buses will be Electric in 2030



2. School Bus (Post FWC)

School Bus (Post FWC)



FWC Bus (TBS)- 3038

	<i>Diesel Transit</i>	185
	<i>Diesel Coaches</i>	261
	<i>Electric Coach style 50 seat</i>	68
	<i>Electric Transit style 30+ seat (10-11m)</i>	673
	New Diesel Euro 5 School Bus	1630
	<i>Diesel Sprinter Accessible Vans</i>	45
	<i>FIFA Fleet</i>	176
	<i>(TBC)</i>	

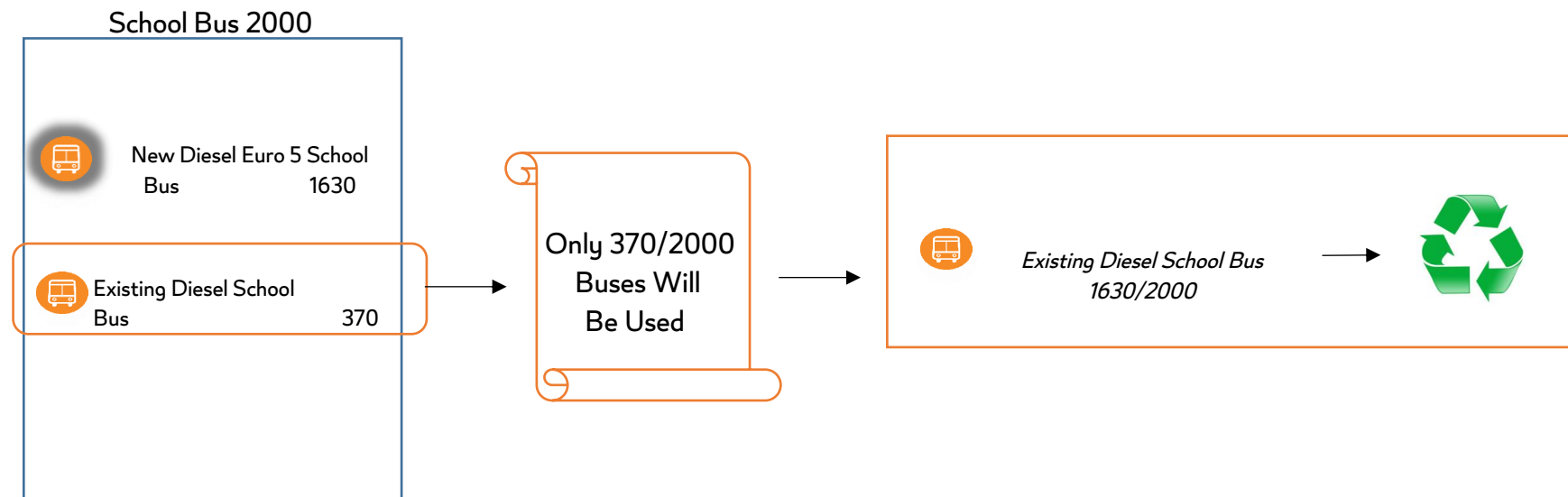
Already Existing

FWC → School Bus

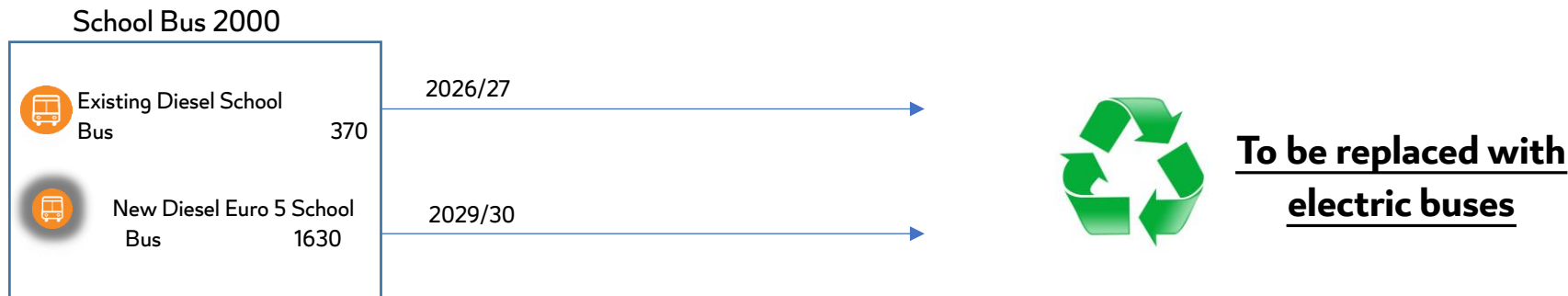
School Bus

	Existing Diesel School Bus	2000
	New Diesel Euro 5 School Bus	1630

Potential Outline of Plan for Optimizing Qatar 2022 FIFA World Cup Legacy in Q2 2025



Potential Outline of Plan Post Legacy Transition 2026-2030



18.5% of School Buses will be Electric in 2026/27

Potential Outline of Plan Post Legacy Transition **2030**

School Bus 2000



New Electric School Bus 370



New Electric School Bus 1630

100% of School Buses will be Electric in 2030

