

● Kaohsiung



Kaohsiung

Key information

Current bus fleet	XXX buses
Current type of fleet	XXX, diesel
No. of stations/ stops/ routes	XXX
Annual ridership	55.48 million passengers (2019)
Fare system	XXX
Opportunities	XXX

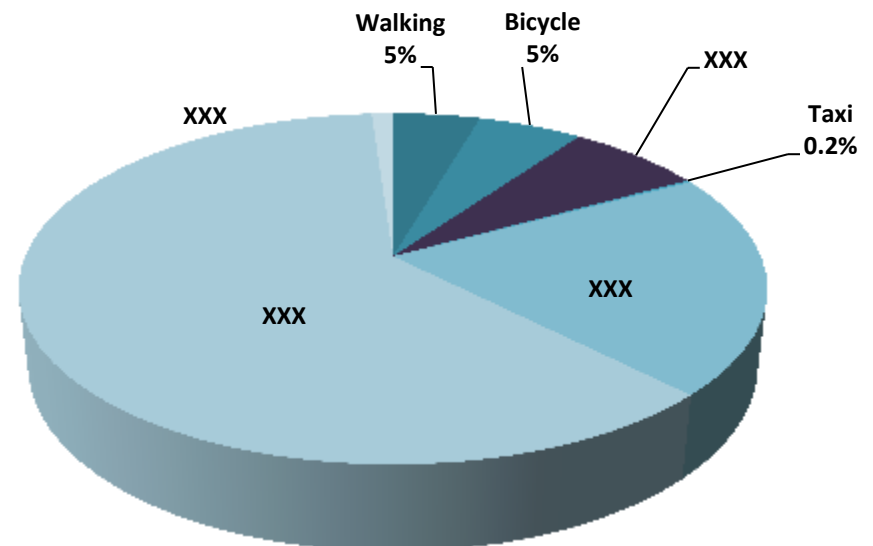
Key players

- Kaohsiung City Government's Bureau of Transportation is the main transit agency responsible for overseeing bus operations.
- Operations are outsourced to private players. Operators include XXX, XXX,....
- Kaohsiung City Government and XXX in collaboration with XXX, XXX, and XXX (operator) launched electric buses in the city.

City background

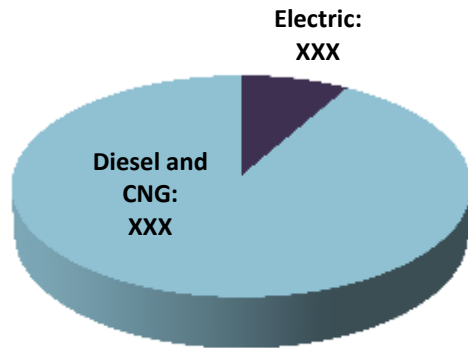
Kaohsiung is the largest city in southern Taiwan and the third-most populous city in the country. Kaohsiung has a land area of approximately 3,000 sq. km. It has a population of over 2.77 million people; 2 million people live in the metropolitan area. The city is a hub for the tourism, logistics, steel, and ship-building industries. Kaohsiung ranks at 126 in the Global Urban Competitiveness Report (2019-2020).

Modal share (2017)



Current bus rolling stock and infrastructure

Type-wise share of bus fleet (2019)*



Electric charging infrastructure

The city deploys fast-charging technology, which enables buses to be charged in **XX minutes**.

XXX

Increase in bus fleet

Year	MRT shuttle bus	Kaohsiung City Bus
2014	XXX	893
2015	318	XXX
2016	XXX	XXX
2017	XXX	XXX
2018	XXX	XXX
2019	XXX	XXX

Source: Kaohsiung City Government's Bureau of Transportation

Source: Global Mass Transit Research

XXX

Key bus suppliers

XXX

XXX

RAC: 14 electric buses

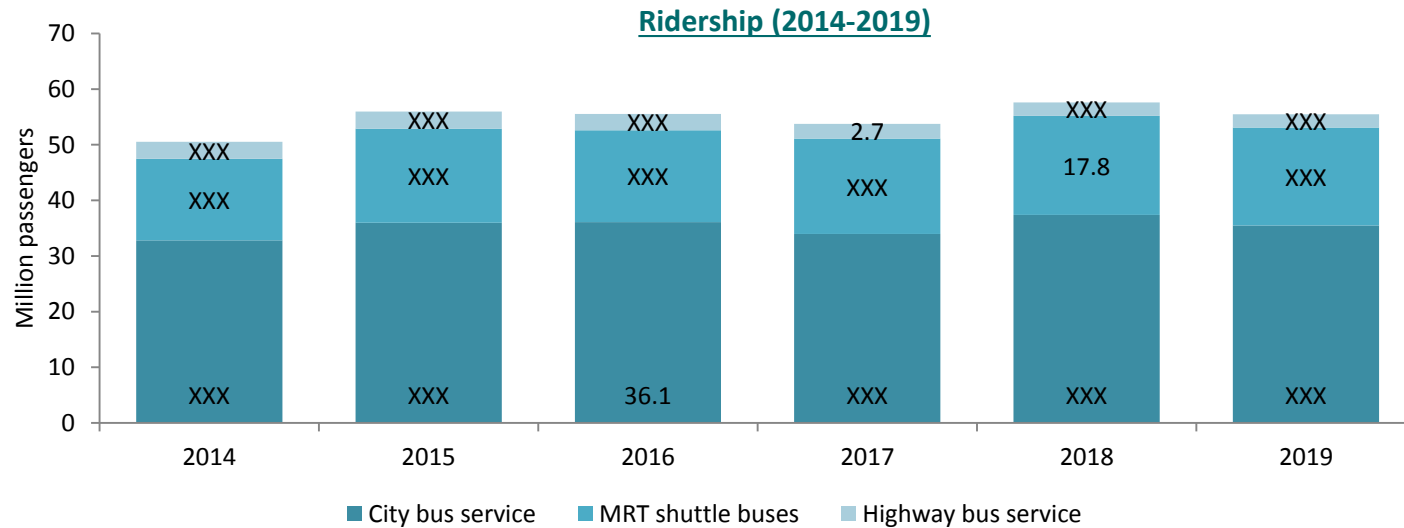
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XXX

Ridership and fare system

Ridership

XXX



Source: Kaohsiung City Government's Bureau of Transportation

Fare media and technology

XXX

Autonomous bus

Autonomous bus trials

XXX

Parameters	Details
Operator	XXX
Local partner	XXX
Supplier	XXX
Model	XXX
Trial period	XXX
Route length and route	The route spans 1 km through the "Software Park Station" at the bottom of Fuxing 4th Road, Starlight Waterfront Park, and Light Rail C8 Kaohsiung Exhibition Center Station.
No. of stops	XXX
Capacity	XXX
Speed	XXX
End-to-end journey time	XXX
Features	XXX

The buses were used in closed test fields only. The data and information about the technology could not be saved after the project ended. No further update about deployments is available.

Policies supporting bus procurement and modernisation (1/3)

National plans and policies for bus procurement

Control measures for diesel vehicles employed in Taiwan

XXX

Executive policy



Policies supporting bus procurement and modernisation (2/3)

National plans and policies for bus procurement

National policy for electrification of bus fleet

Mision	XXX
Investment	XXX
Funding and finance	XXX
Subsidies	XXX
Opportunities for private players	XXX

Policies supporting bus procurement and modernisation (3/3)

City plans and policies for bus procurement

XXX

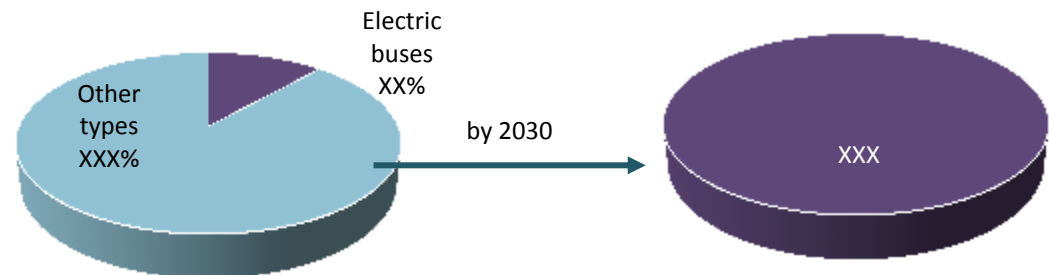
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In 2018, the **central government subsidised the city for 154 million yuan** to purchase electric buses. The Kaohsiung City Transportation Bureau had plans to propose an electric vehicle introduction plan to optimise the service quality of the buses.

XXX

XXX

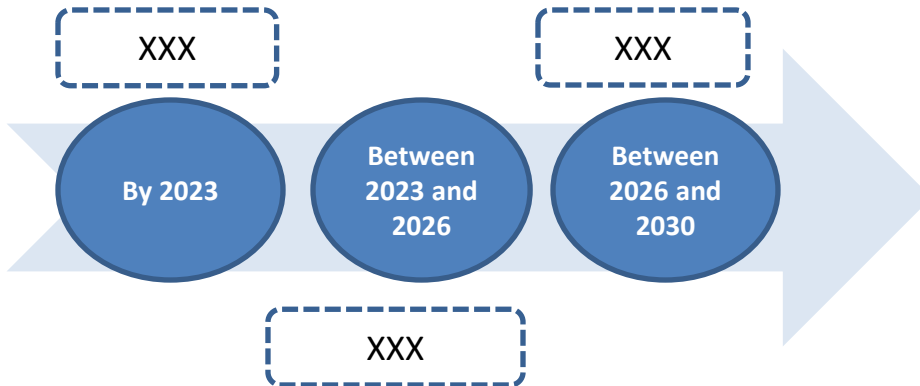
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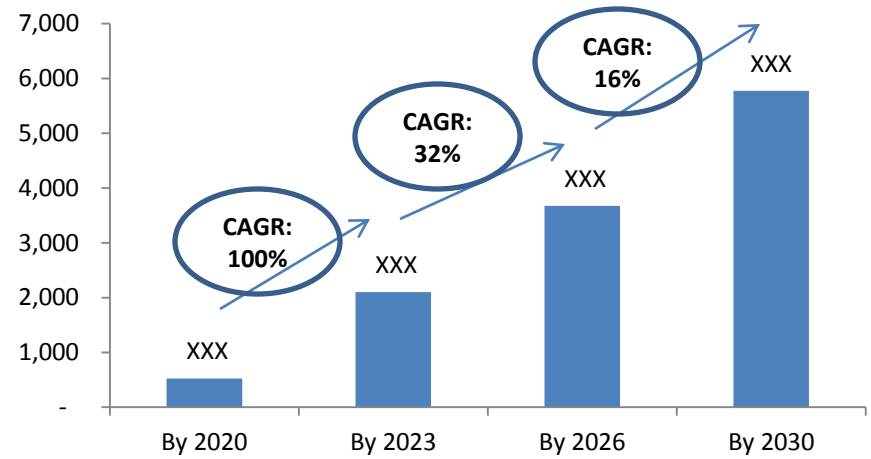
Upcoming plans and procurements

With an annual replacement rate of XXX buses, the city aims to replace its existing fleet of fuel buses with XXX by 2030.

Timeline of electric buses to be procured



Investment projections for the procurement of an XXX fleet (TWD million)



Cost advantages and disadvantages of XXX buses in the city

Cost advantages of adoption of XXXbuses

- XXX

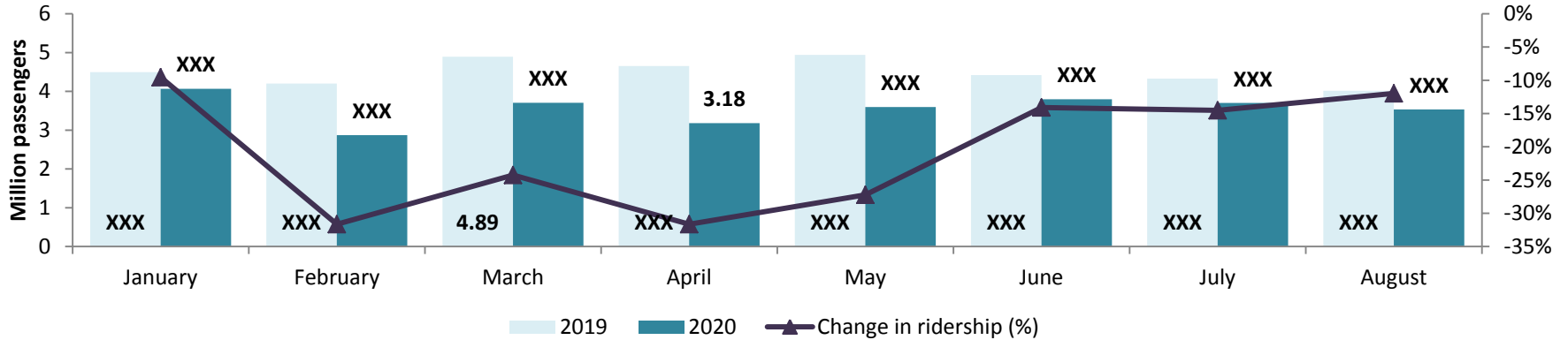
Cost disadvantages of adoption of XXX buses

- XXX

Impact of COVID-19 pandemic

Between January and August 2020, the overall bus fleet in the city declined at a CAGR of XXX%. The maximum decline was witnessed in ... XXX

Impact on ridership



Source: Kaohsiung City Government's Bureau of Transportation

Network reorganisation

XXX

XXX

Recent developments and key contacts

Recent developments

Month and Year	Category	Development
December 2020	Infrastructure	XXX
August 2020	Initiatives, plans, and policies	XXX
August 2020	Other	XXX
March 2020	Technology	<p>Kaohsiung City Airport Passenger Transport introduced the use of the LINE Pay Money travel code on buses, allowing fare payment with cash, e-ticket (Unicard/Young Card/iCash/HappyGo), and further with smart phones.</p> <p>Mobile payment can be used on the bus, the MRT, light rail, and ferry. Passengers can use the LINE Pay Money bus code to swipe the QR code when entering and exiting MRT stations and buses.</p>
December 2019	New routes	XXX

Key contacts

Transportation Bureau of Kaohsiung City Government

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