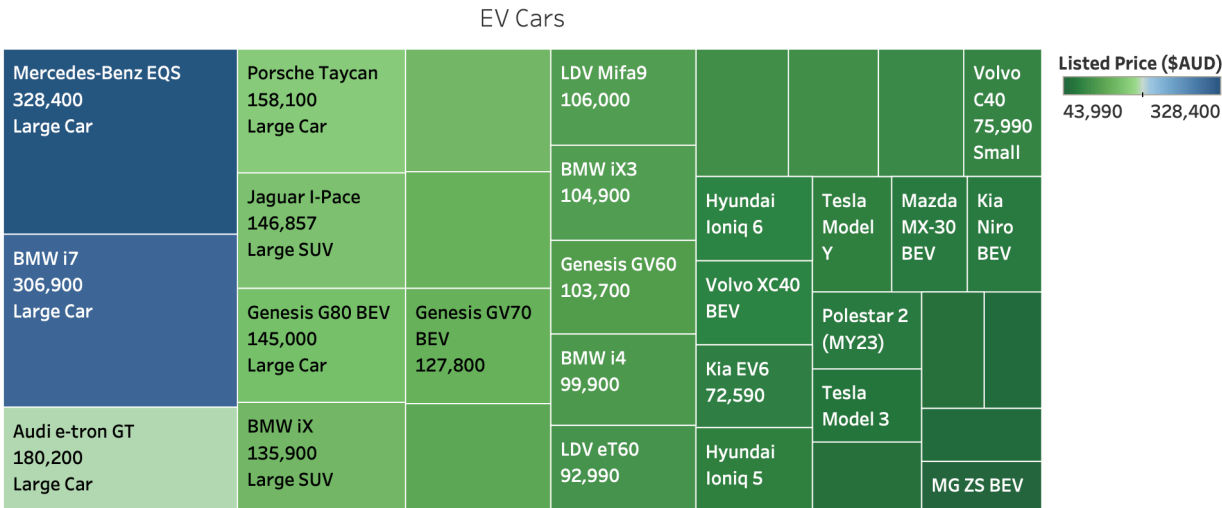# Dashboard Title: Electric Vehicle Comparison

**Introduction:**

This Tableau dashboard provides a comprehensive comparison of electric vehicles based on various key factors including price, range, charging duration, and fuel efficiency. Each visualization offers insights into different aspects of the vehicles, enabling users to make informed decisions when choosing an electric vehicle.
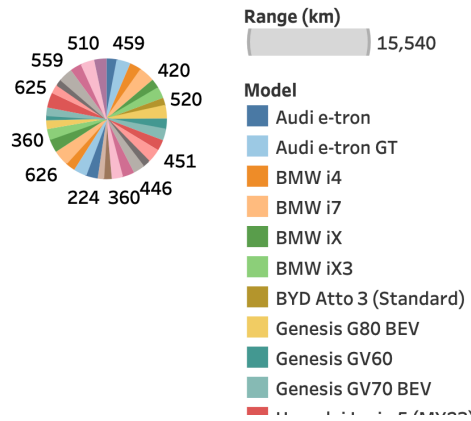
## Visualization 1: Electric Vehicle Price (Treemap)

- **Description**: This treemap visualizes electric vehicles based on their price. The color intensity and amount of space occupied by each rectangle represent the price range of the vehicles. Darker shades indicate higher prices.
- Usage Instructions:
    - Use the treemap to compare the relative prices of different electric vehicles.
    - Hover over each rectangle to view specific details about the vehicle, including its exact price range.



EV Cars

## Visualization 2: Electric Vehicle Range (Pie Chart)
- **Description**: This pie chart illustrates the range of various electric vehicles. Each slice of the pie corresponds to a different vehicle model, with the size of the slice indicating its range. A larger slice represents a longer range.
- Usage Instructions:
    - Observe the pie chart to quickly compare the range of different electric vehicle models.
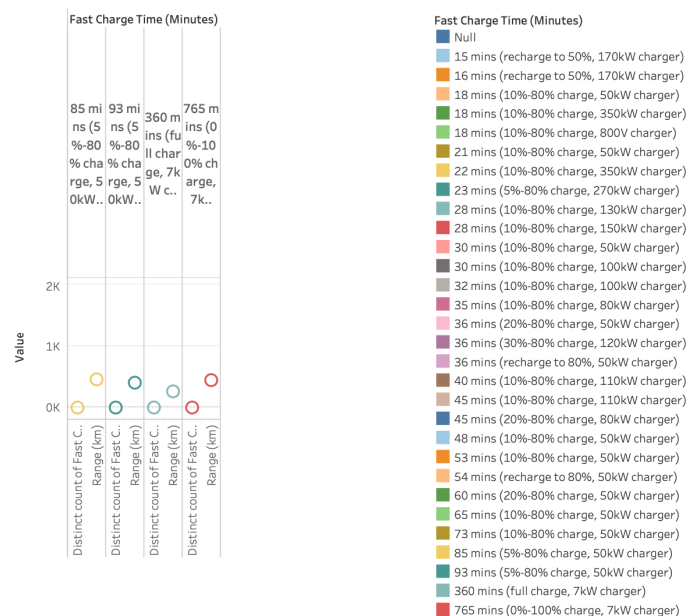    - Hover over each slice to view the exact range of each vehicle.

# Range



Range (km)

| | 15,540 |

**Model**
- Audi e-tron
- Audi e-tron GT
- BMW i4
- BMW i7
- BMW iX
- BMW iX3
- BYD Atto 3 (Standard)
- Genesis G80 BEV
- Genesis GV60
- Genesis GV70 BEV

## Visualization 3: Charging Duration (Side-by-Side Circles)

- **Description**: This visualization uses side-by-side circles to represent the charging duration of different electric vehicles. Each circle corresponds to a vehicle, with the size of the circle indicating the charging duration. Smaller circles represent shorter charging times.
- Usage Instructions:
    - Use this visualization to compare the charging durations of different electric vehicles.
    - Hover over each circle to view specific details about the charging duration of each vehicle.

charging duration



Fast Charge Time (Minutes)
- Null
- 15 mins (recharge to 50%, 170kW charger)
- 16 mins (recharge to 50%, 170kW charger)
- 18 mins (10%-80% charge, 50kW charger)
- 18 mins (10%-80% charge, 350kW charger)
- 18 mins (10%-80% charge, 800V charger)
- 21 mins (10%-80% charge, 50kW charger)
- 22 mins (10%-80% charge, 350kW charger)
- 23 mins (5%-80% charge, 270kW charger)
- 28 mins (10%-80% charge, 130kW charger)
- 28 mins (10%-80% charge, 150kW charger)
- 30 mins (10%-80% charge, 50kW charger)
- 30 mins (10%-80% charge, 100kW charger)
- 32 mins (10%-80% charge, 100kW charger)
- 35 mins (10%-80% charge, 80kW charger)
- 36 mins (20%-80% charge, 50kW charger)
- 36 mins (30%-80% charge, 120kW charger)
- 36 mins (recharge to 80%, 50kW charger)
- 40 mins (10%-80% charge, 110kW charger)
- 45 mins (10%-80% charge, 110kW charger)
- 45 mins (20%-80% charge, 80kW charger)
- 48 mins (10%-80% charge, 50kW charger)
- 53 mins (10%-80% charge, 50kW charger)
- 54 mins (recharge to 80%, 50kW charger)
- 60 mins (20%-80% charge, 50kW charger)
- 65 mins (10%-80% charge, 50kW charger)
- 73 mins (10%-80% charge, 50kW charger)
- 85 mins (5%-80% charge, 50kW charger)
- 93 mins (5%-80% charge, 50kW charger)
- 360 mins (full charge, 7kW charger)
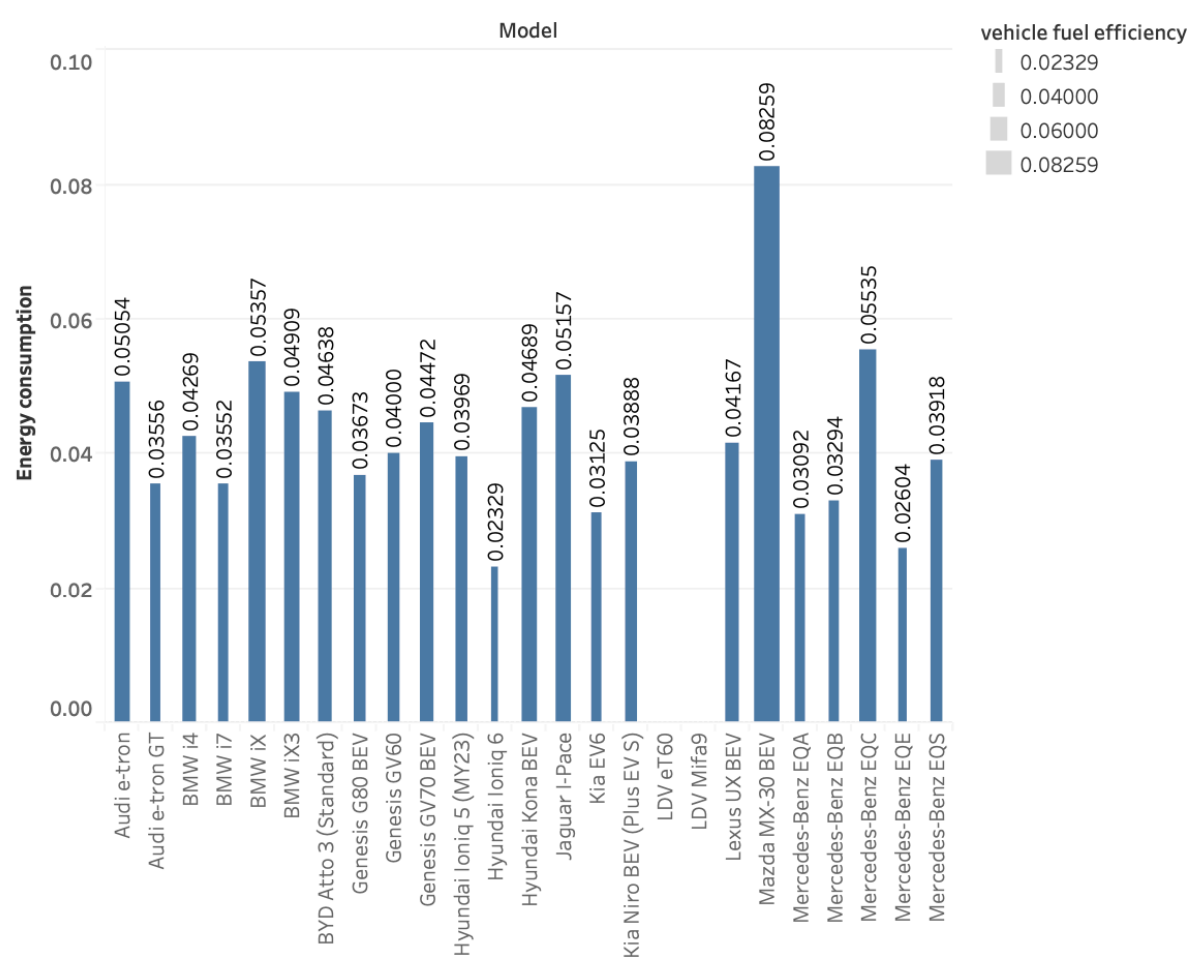- 765 mins (0%-100% charge, 7kW charger)

Visualization 4: Fuel Efficiency (Vertical Bar Chart)

- **Description**: This vertical bar chart demonstrates the fuel efficiency of electric vehicles. It was calculated as [Energy Consumption (kWh/100km)] divided by [Range (km)]. Lower values indicate better fuel efficiency.

- Usage Instructions:
  - Observe the bars to compare the fuel efficiency of different electric vehicles.
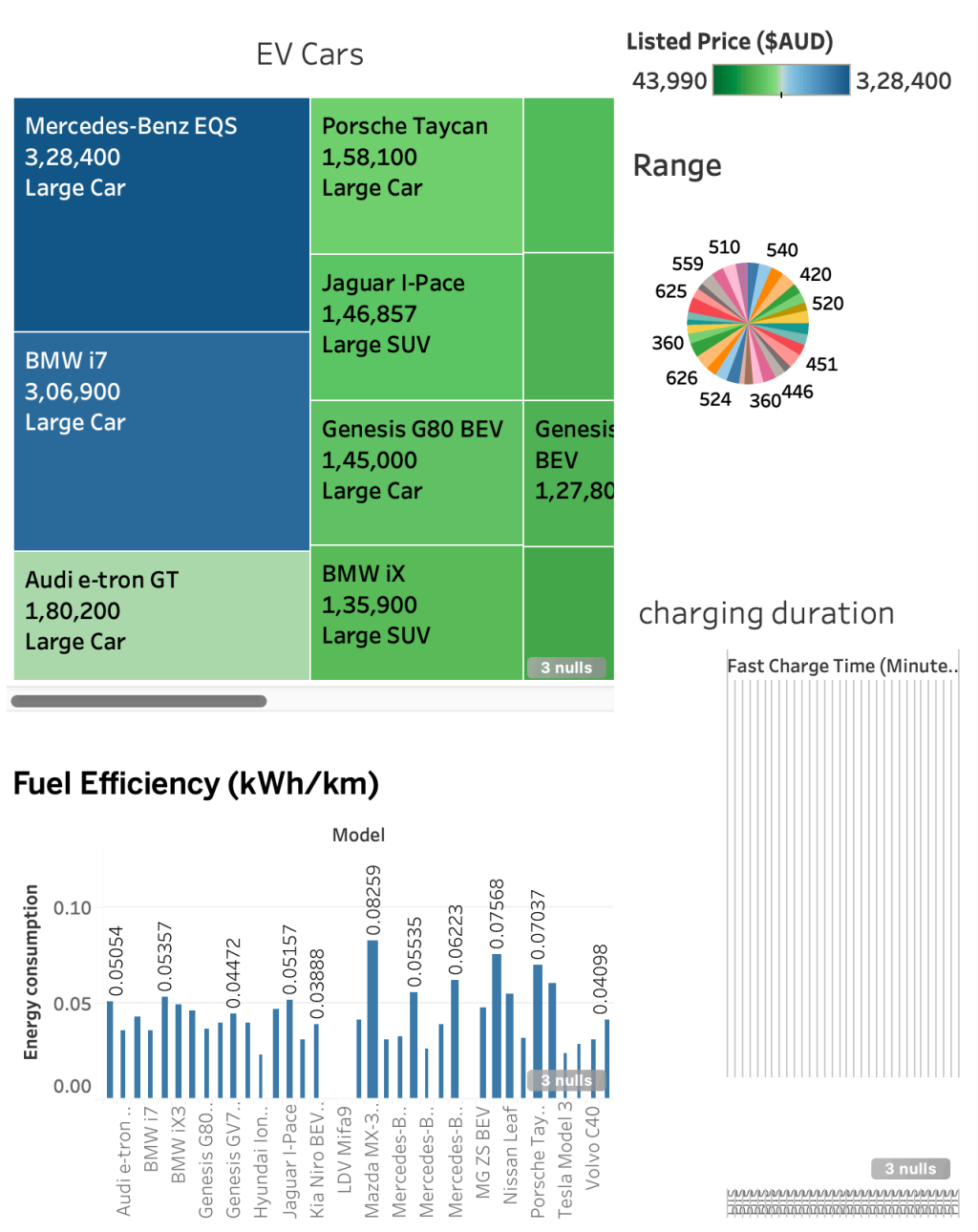  - Hover over each bar to view the exact fuel efficiency value of each vehicle.
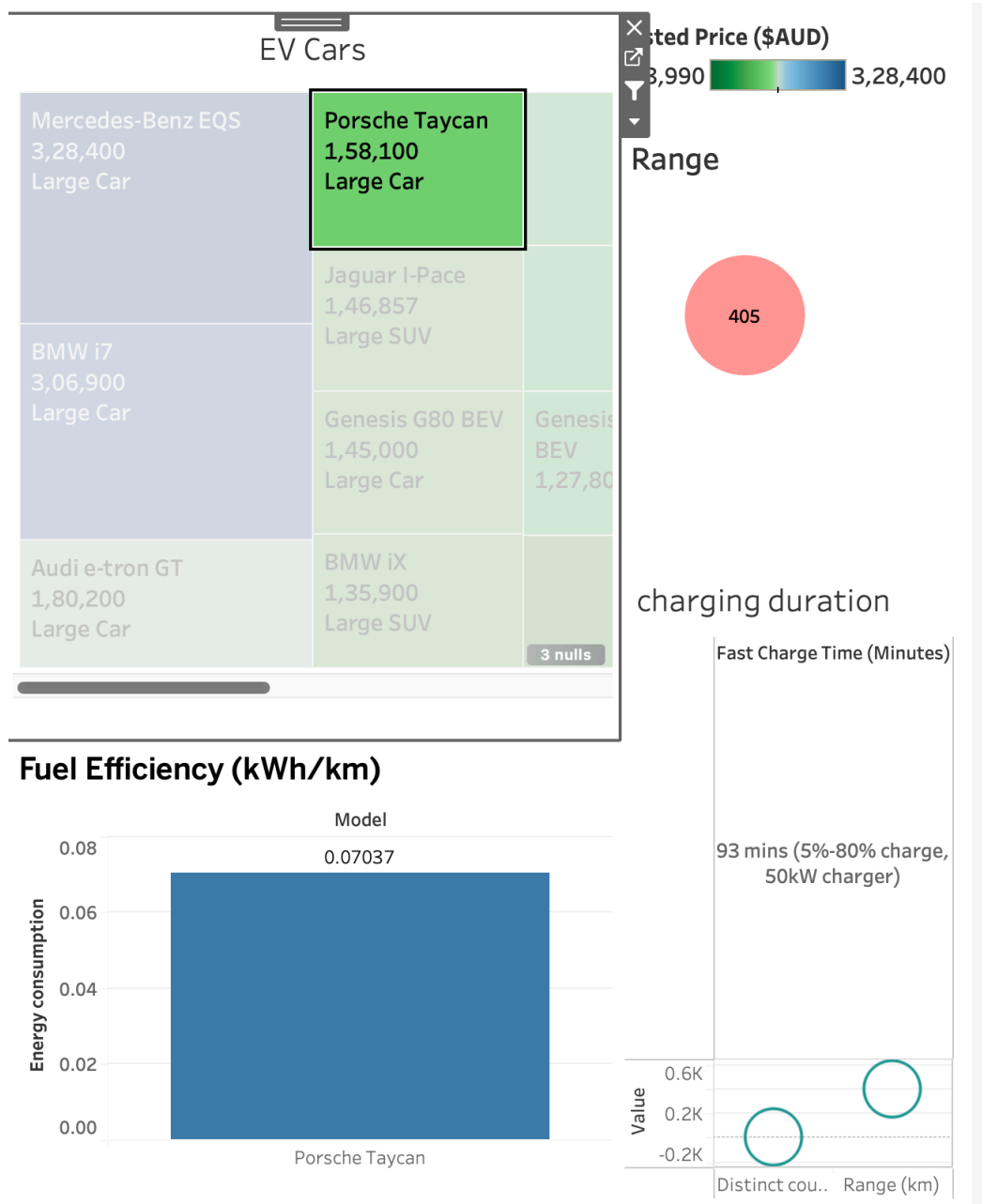
# Fuel Efficiency (kWh/km)



**Conclusion:**

This Tableau dashboard provides a comprehensive comparison of electric vehicles based on their price, range, charging duration, and fuel efficiency. Use this information to make an informed decision when selecting an electric vehicle that best suits your needs.

Finally the dashboard looks like this

## EV Cars

**Listed Price ($AUD)**
43,990 ▬▬▬▬ 3,28,400

| Mercedes-Benz EQS 3,28,400 Large Car | Porsche Taycan 1,58,100 Large Car | |
| BMW i7 3,06,900 Large Car | Jaguar I-Pace 1,46,857 Large SUV | |
| | Genesis G80 BEV 1,45,000 Large Car | Genesis BEV 1,27,80 |
| Audi e-tron GT 1,80,200 Large Car | BMW iX 1,35,900 Large SUV | |

3 nulls

### Range

510  540
559      420
625          520
360
626          451
524  360 446

### charging duration

Fast Charge Time (Minute..

3 nulls

## Fuel Efficiency (kWh/km)

Model

Energy consumption

0.10

0.05054   0.05357   0.04472   0.05157   0.08259   0.05535   0.06223   0.07568   0.07037   0.04098

0.05        0.03888

0.00

3 nulls

Audi e-tron .. | BMW i7 | BMW iX3 | Genesis G80.. | Genesis GV7.. | Hyundai Ion.. | Jaguar I-Pace | Kia Niro BEV.. | LDV Mifa9 | Mazda MX-3.. | Mercedes-B.. | Mercedes-B.. | Mercedes-B.. | MG ZS BEV | Nissan Leaf | Porsche Tay.. | Tesla Model 3 | Volvo C40

3 nulls

## EV Cars

| | |
|---|---|
| **Mercedes-Benz EQS** 3,28,400 Large Car | **Porsche Taycan** **1,58,100** **Large Car** |
| **BMW i7** 3,06,900 Large Car | Jaguar I-Pace 1,46,857 Large SUV |
| | Genesis G80 BEV 1,45,000 Large Car / Genesis BEV 1,27,80 |
| Audi e-tron GT 1,80,200 Large Car | BMW iX 1,35,900 Large SUV |

3 nulls

### sted Price ($AUD)

3,990 — 3,28,400

## Range

405

## charging duration

Fast Charge Time (Minutes)

93 mins (5%-80% charge, 50kW charger)

Value: 0.6K / 0.2K / -0.2K

Distinct cou.. | Range (km)

## Fuel Efficiency (kWh/km)

Model

0.07037

Energy consumption
- 0.08
- 0.06
- 0.04
- 0.02
- 0.00

Porsche Taycan

**Author:** Yuvraj Singh Sekhon