



Please find data sources for this research question:

"How do CO2, Emissions and the Share of Electric Vehicles Influence the Sales Performance of Major Car Brands between 2018 and 2025?"

Perfect! Now I have comprehensive information. Let me compile this into a well-organized report for your research.

Comprehensive Data Sources for CO2 Emissions, Electric Vehicle Share, and Car Brand Sales Performance Research (2018-2025)

Primary International Data Repositories

European Environment Agency (EEA)

The EEA maintains the most comprehensive official CO2 emissions database for European vehicles. Access their datasets through the EEA DataHub, which includes: [\[1\]](#) [\[2\]](#)

- **Average CO2 emissions per km from new passenger cars** (2000-2023 with provisional 2024 data) available in Excel, CSV, and SQL formats
- **Monitoring of CO2 emissions from passenger cars under Regulation (EU) 2019/631** with annual datasets from 2013-2024
- **Real-world emissions data** from new cars and vans (2021-2023) based on Article 12 of EU Regulation
- Direct download options for both historical and current data
- Elastic Data Viewer for interactive exploration of CO2 passenger car emissions

International Energy Agency (IEA) - Global EV Outlook

The IEA publishes the most authoritative global electric vehicle market data: [\[3\]](#) [\[4\]](#)

- **Global EV Outlook 2025** - comprehensive PDF report with detailed statistics on EV deployment, demand, and projections through 2030
- **Global EV Data Explorer** - interactive online tool allowing exploration of EV statistics by country, manufacturer, and time period
- **Global EV Policy Explorer** - tracking of policy measures affecting EV adoption worldwide
- Data covering 2018-2025 with market share, sales volumes, and regional breakdowns

- Analysis of battery demand, charging infrastructure, and vehicle-grid integration

International Council on Clean Transportation (ICCT)

ICCT provides detailed European market analysis: [\[5\]](#) [\[6\]](#)

- **European Market Monitor** - monthly reports on CO2 emissions performance by manufacturer pools and individual brands (latest: March 2025)
- **European Vehicle Market Statistics** - comprehensive dataset at car variant level with technical information, emission levels, and registration volumes
- **CO2 emissions from new passenger cars in Europe** - annual analysis (2023 data available)
- Detailed breakdown by manufacturer pool performance against EU targets

Global Sales and Production Data

OICA (International Organization of Motor Vehicle Manufacturers)

OICA is the primary source for global vehicle production and sales statistics: [\[7\]](#) [\[8\]](#) [\[9\]](#)

- Annual statistics on world motor vehicle production, vehicle sales, and vehicles in use
- Statistics available from OICA website (oica.net) and through statistical portals
- R package available (oica package for R users) providing tidy-formatted data
- Data by country and vehicle type (passenger cars, commercial vehicles) dating back decades
- National automobile associations (ACEA for Europe) provide regional breakdowns

Good Car Bad Car (GCBC)

Publicly accessible automotive sales database: [\[10\]](#) [\[11\]](#)

- Monthly and yearly US sales figures by brand with year-over-year comparisons
- Includes brand rankings and market share analysis
- Data spanning 2005-2025 with historical trending
- Brand-level sales performance analysis
- Quarterly sales performance comparisons

China Association of Automobile Manufacturers (CAAM)

Critical source for China market data: [\[12\]](#) [\[13\]](#) [\[14\]](#)

- Monthly vehicle production and sales data by brand
- New energy vehicle (NEV) sales statistics and market share
- Year-to-date aggregations and comparisons

- Chinese brand vs. international brand performance breakdown
- Data available through CAAM publications and third-party aggregators

Statista

Market research platform with subscription access: [\[15\]](#) [\[16\]](#) [\[17\]](#)

- Global car sales 2019-2024 with forecasts through 2026
- International automobile sales by region 2018-2024
- Passenger car market forecasts by manufacturer and segment
- EV market size and projections (US\$993.0bn in 2025)
- Toyota, China regional, and segment-specific market share data

LMC Automotive

Professional automotive forecasting firm: [\[18\]](#) [\[19\]](#)

- Light Vehicle sales data with regional breakdowns
- Global sales forecasts and capacity utilization analysis
- Market-by-market analysis through partner platforms (MarkLines)
- Monthly and quarterly sales performance data
- Premium subscription service with detailed manufacturer insights

Regional Government and Official Statistics

Eurostat

EU statistical office providing official European data: [\[20\]](#) [\[1\]](#)

- Vehicle registration statistics with CO2 emissions data
- Average CO2 emissions for newly registered vehicles (2018-2023 updated)
- Integration with EEA data for comprehensive EU reporting
- Multiple data table formats available

UK Government Vehicle Statistics

Official UK Department for Transport data: [\[20\]](#)

- Vehicle licensing statistics data tables (VEH0156)
- Average CO2 emissions for newly registered vehicles 2018-2023
- WLTP, e-NEDC, and reported emissions measures
- Data quality documentation and revision notes

US EPA Automotive Trends Report

Comprehensive US emissions and fuel economy data: [\[21\]](#)

- Light-duty vehicle CO2 emissions data since 1975
- Testing data from EPA's Ann Arbor laboratory
- Fuel economy standards (CAFE) and greenhouse gas emissions
- Technology adoption trends and manufacturer performance
- Available through EPA's official data portal

Academic and Research Datasets

Our World in Data

Open-access research data platform: [\[22\]](#) [\[23\]](#) [\[24\]](#)

- Global data on electric vehicle sales and market share
- Share of new cars that are electric (BEV vs. PHEV breakdown)
- Electric car stocks by country
- Data sourced from IEA Global EV Outlook 2025
- Interactive charts and downloadable datasets

Kaggle Datasets

Public data repository with multiple automotive datasets:

- Vehicle sales data (multiple datasets covering different regions)
- BMW car sales classification dataset
- Car sales reports by region and manufacturer
- Note: Verify dataset completeness and recency before use

Specialized Research and Reports

The International Council on Clean Transportation (ICCT)

Advanced research reports: [\[25\]](#) [\[26\]](#) [\[5\]](#)

- CO2 emissions from new passenger cars in Europe (detailed manufacturer analysis)
- European vehicle market statistics with variant-level data
- CO2 Emissions from Cars: The Facts (2018 report with historical trends)
- Real-world emissions gap analysis

Transport & Environment Organization

NGO with detailed emissions analysis:

- CO2 emissions from cars reports with historical context (1998-present)
- Manufacturer-specific performance against EU targets
- Technology adoption and efficiency trends

Precedence Research

Commercial market research firm: ^[27]

- Electric vehicle market size projections (USD 988.70bn in 2025)
- Regional market analysis (Asia Pacific, North America, Europe)
- EV market segmentation by propulsion type and vehicle class
- CAGR forecasts through 2034

Data Integration Recommendations for Your Research

For your Master's thesis in Global Health with a physiotherapy background, consider these data source combinations:

1. **European Focus:** Combine EEA CO2 emissions data with ICCT European Market Monitor reports and Eurostat vehicle registration statistics for comprehensive European analysis (2018-2025)
2. **Global Perspective:** Integrate IEA Global EV Outlook data with OICA vehicle production/sales statistics and Statista market forecasts for worldwide coverage
3. **Brand-Level Analysis:** Use Good Car Bad Car (US market), MarkLines/LMC Automotive (multi-regional), and CAAM (China) for specific brand performance tracking
4. **Time Series Analysis:** EEA provides consistent annual data since 2018, ideal for trend analysis and correlation studies between CO2 emissions, EV market share, and sales performance
5. **Real-World Validation:** Combine official EU/EPA testing data with EEA real-world emissions datasets (2021-2023) to account for test-to-road gaps

Data Quality and Methodological Notes

Be aware that: ^[28]

- Official CO2 measurements use WLTP test procedure (adopted 2017-2018 onwards), replacing earlier NEDC standards
- A persistent gap exists between official test results and real-world emissions (approximately 14% higher in reality for recent data)
- EU regulations have incorporated compliance credit mechanisms affecting reported manufacturer performance

- Chinese EV statistics include both BEVs and NEVs (plug-in hybrids), which should be distinguished in your analysis
- Some datasets use calendar years while others use fiscal years - standardize for consistency

These sources provide the comprehensive, authoritative data necessary for a rigorous research analysis examining the relationships between CO2 emissions, electric vehicle adoption, and automotive sales performance across major global markets from 2018 to 2025.

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3. <https://iea.blob.core.windows.net/assets/c3f7fb7b-4205-4fd6-a20e-afe14a9aa252/GlobalEVOutlook2025.pdf>
4. <https://www.virta.global/blog/the-future-of-electromobility-ieas-global-ev-outlook>
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