LIFE CYCLE ASSESSMENT FACT SHEET

VW Golf
GTE 180 kW plug-in hybrid 4x2 automatic

Vehicle Specifications

- Green NCAP Publication Date: 11.2021
- Fuel: Petrol E10
- Mass: 1,358 kg
- System Power/Torque: 180 kW/400 Nm
- Emissions Class: Euro 6d
- Declared Battery Capacity: 13.0 kWh
- Declared Electric Energy Consumption (W/L): 16.6 kWh/100 km
- Average | Best | Worst
  - Measured Electric Energy Consumption (Green NCAP Tests): 4.9 | 12.7 | 0.0 kWh/100 km
- Declared Fuel Consumption (W/L): 16 / 1/100 km
- Average | Best | Worst
  - Measured Fuel Consumption (Green NCAP Tests): 1.2 | 1.1 | 0.1 kWh/100 km

Process Chain – Plug-in Hybrid Powertrain

- Primary Energy Demand
- Energy Materials 1
- Raw Oil
- Extraction
- Direct CO2 & CH4 Emissions
- Fuel, Materials 1
- Transport
- Refinery
- Other Fuels, Petrochemicals
- Energy Materials 1
- Raw Oil
- Distribution
- Electricity Mix Process Chain
- Electricity
- Vehicle (Plug-in Hybrid)
- Transportation
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- Vehicle (Plug-in Hybrid)
- Transportation
- GHG Emission Contributions
- Total GHG Emissions
- Production w/o Bat/FC: 40.0
- Battery Production: 4.5
- Fuel Cell Production: 0.0
- Maintenance: 0.5
- Fuel/Energy Supply: 8.5
- Tailpipe Emissions: 6.5
- Recycling: 0.0

Default Assessment Parameters

- Country | Electricity Mix
  - EU Average
- Annual Kilometers: 15,000 km
- Vehicle | Battery Lifetime: 16 years
- Slow | Quick Charging
  - 90% | 10% (of km/year)

Greenhouse Gas (GHG) Emissions

- Estimated Average GHG Emissions
  - Total: 215.4 g CO2-eq/km
  - Production w/o Bat/FC: 40.0
  - Battery Production: 4.5
  - Fuel Cell Production: 0.0
  - Maintenance: 0.5
  - Fuel/Energy Supply: 8.5
  - Tailpipe Emissions: 6.5
  - Recycling: 0.0

Primary Energy Demand

- Estimated Average Energy Demand
  - Total: 0.91 kWh/km
  - Production w/o Bat/FC: 0.15 kWh/km
  - Battery Production: 0.02 kWh/km
  - Fuel Cell Production: 0.0 kWh/km
  - Maintenance: 0.03 kWh/km
  - Fuel/Energy Supply: 0.72 kWh/km

Energy Demand Contributions

- Estimated Average Energy Demand
  - Total: 0.91 kWh/km
  - Production w/o Bat/FC: 0.15 kWh/km
  - Battery Production: 0.02 kWh/km
  - Fuel Cell Production: 0.0 kWh/km
  - Maintenance: 0.03 kWh/km
  - Fuel/Energy Supply: 0.72 kWh/km

- Energy Source
  - Total: 0.91 kWh/km
  - Other: 4%
  - Renewable: 12%
  - Fossil: 84%