**BMW 3 Series**

**320d diesel 4x2 automatic**

### Vehicle Specifications

- **Green NCAP Publication Date**: 11 2020
- **Fuel**: Diesel B7
- **Mass**: 1,572 kg
- **System Power/Torque**: 140 kW/400 Nm
- **Emissions Class**: Euro 6d-Temp
- **Declared Battery Capacity**: n.a.
- **Declared Electric Energy Consumption (WLTP)**: n.a.
- **Average | Best | Worst Measured Electric Energy Consumption (Green NCAP Tests)**: n.a.
- **Declared Fuel Consumption (WLTP)**: 5.3 l/100 km
- **Average | Best | Worst Measured Fuel Consumption (Green NCAP Tests)**: 5.2 | 4.5 | 6.4 l/100 km

### Process Chain – Diesel Powertrain

- **Raw Oil** → **Energy Materials** → **Extraction** → **Refinery** → **Distribution** → **Vehicle (Conventional)**

### Default Assessment Parameters

- **Country | Electricity Mix**: EU Average
- **Annual Kilometers**: 15,000 km
- **Vehicle | Battery Lifetime**: 16 years
- **Slow | Quick Charging**: n.a.

### Greenhouse Gas (GHG) Emissions

**Estimated Average GHG Emissions**

<table>
<thead>
<tr>
<th>Source</th>
<th>Total (g CO₂-eq/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production w/o Bat/FC</td>
<td>43.4</td>
</tr>
<tr>
<td>Battery Production</td>
<td>0.0</td>
</tr>
<tr>
<td>Fuel Cell Production</td>
<td>0.0</td>
</tr>
<tr>
<td>Maintenance</td>
<td>9.4</td>
</tr>
<tr>
<td>Fuel/Energy Supply</td>
<td>9.9</td>
</tr>
<tr>
<td>Tailpipe Emissions</td>
<td>12.3</td>
</tr>
<tr>
<td>Recycling</td>
<td>5.9</td>
</tr>
</tbody>
</table>

**Total GHG Emissions**

- **Vehicle Life Cycle Average Emissions**: 213.4 (±10) (Best: 46 | Worst: 60)

**Energy Demand Contributions**

- **Road & Recycling**: 68%
- **Battery Production**: 0%
- **Fuel Cell Production**: 0%
- **Fuel/Energy Supply**: 14%
- **Maintenance**: 4%

**Primary Energy Demand**

- **Energy Demand Contributions**
  - **Road & Recycling**: 17%
  - **Battery Production**: 0%
  - **Fuel Cell Production**: 0%
  - **Fuel/Energy Supply**: 79%
  - **Maintenance**: 4%

**Energy Source**

- **CO2 Fleet Best**: 100
- **CO2 Fleet Worst**: 100

**Estimated Average Energy Demand**

<table>
<thead>
<tr>
<th>Source</th>
<th>Total (kWh/km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Production w/o Bat/FC</td>
<td>0.83</td>
</tr>
<tr>
<td>Battery Production</td>
<td>0.00</td>
</tr>
<tr>
<td>Fuel Cell Production</td>
<td>0.00</td>
</tr>
<tr>
<td>Maintenance</td>
<td>0.00</td>
</tr>
<tr>
<td>Fuel/Energy Supply</td>
<td>0.00</td>
</tr>
<tr>
<td>Recycling</td>
<td>0.00</td>
</tr>
</tbody>
</table>

**Energy Demand Contributions**

Life Cycle Assessment results calculated with Test 2d_2022 by RAU/JOANNEUM RESEARCH based on 240,000 kilometre lifetime for average European conditions.