## Emissions and Fuel Economy Legislation Summary

### Passenger Cars & LCVs

<table>
<thead>
<tr>
<th>Region</th>
<th>Emissions Standards</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EU</strong></td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>Euro 4</td>
</tr>
<tr>
<td>2010</td>
<td>Euro 5a</td>
</tr>
<tr>
<td>2015</td>
<td>Euro 5b</td>
</tr>
<tr>
<td>2020</td>
<td>Euro 6b</td>
</tr>
<tr>
<td>2025</td>
<td>Euro 6d-TEMP</td>
</tr>
<tr>
<td>2030</td>
<td>Euro 6d-ISC-FCM</td>
</tr>
<tr>
<td><strong>Test cycles</strong></td>
<td>NEDC</td>
</tr>
<tr>
<td><strong>CO₂ / CAFC</strong></td>
<td>130 g(CO₂)/km target (LCV-2017: 175 g(CO₂)/km)</td>
</tr>
<tr>
<td><strong>US-Federal</strong></td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>EPA Tier 2</td>
</tr>
<tr>
<td>2010</td>
<td>EPA Tier 3</td>
</tr>
<tr>
<td>2015</td>
<td>EPA Tier 4</td>
</tr>
<tr>
<td>2020</td>
<td>CARB LEV III (Harmonised with EPA Tier 3)</td>
</tr>
<tr>
<td>2025</td>
<td>CARB LEV III (Harmonised with EPA Tier 3)</td>
</tr>
<tr>
<td><strong>California</strong></td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>New long term</td>
</tr>
<tr>
<td>2010</td>
<td>Post new long term standards</td>
</tr>
<tr>
<td>2015</td>
<td>LEV III standards (2009-2016)</td>
</tr>
<tr>
<td>2020</td>
<td>LEV III standards (2009-2016)</td>
</tr>
<tr>
<td><strong>China</strong></td>
<td></td>
</tr>
<tr>
<td>2005</td>
<td>China III</td>
</tr>
<tr>
<td>2010</td>
<td>China IV</td>
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<td>2020</td>
<td>China 6a</td>
</tr>
<tr>
<td>2025</td>
<td>China 6b</td>
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### Test cycles

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<th>Region</th>
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<tr>
<td><strong>EU</strong></td>
<td>NEDC, WLTP + RDE</td>
</tr>
<tr>
<td><strong>US-Federal</strong></td>
<td>US FTP 75, SFTP</td>
</tr>
<tr>
<td><strong>California</strong></td>
<td>US FTP 75, SFTP (US06 cycle, SC03 cycle), HWFET</td>
</tr>
<tr>
<td><strong>Japan</strong></td>
<td>10-15 mode+11 mode, JC08 test cycle (with 10-15 mode until Oct 2011)</td>
</tr>
<tr>
<td><strong>India</strong></td>
<td>Indian Drive Cycle (NEDC with max speed reduced to 90 km/h)</td>
</tr>
<tr>
<td><strong>China</strong></td>
<td>NEDC, WLTP + RDE</td>
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### CO₂ / CAFC

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<td><strong>US-Federal</strong></td>
<td>Phase 1 CO₂ standards</td>
</tr>
<tr>
<td><strong>California</strong></td>
<td>Phase 2 (2017-2025) CO₂ standards</td>
</tr>
<tr>
<td><strong>Japan</strong></td>
<td>2005 targets (diesel)</td>
</tr>
<tr>
<td><strong>India</strong></td>
<td>2005 targets (diesel)</td>
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</tbody>
</table>

### Other Standards

- **Phase 1 CO₂ standards**
- **Phase 2 (2017-2025) CO₂ standards**
- **Phase 1 (2017-2025) CO₂ standards**
- **Phase 2 (2017-2025) CO₂ standards**
- **Phase 3 (2017-2025) CO₂ standards**
- **Phase 4 (2017-2025) CO₂ standards**
- **Phase 5 (2017-2025) CO₂ standards**

### Proposed Standards

- **Proposed 2030 targets**
- **Proposed amended standards for MY 2021-2026**
- **Proposed long term standards**

### Additional Information

- **RDE procedure being developed**
- **New long term standards**
- **Post new long term standards**
- **WLTP based standards**
- **WLTP**

Source: Ricardo EMLEG Emissions Legislation database www.emleg.com