In 2020, there are 9 refineries operated by Pertamina to supply domestic fuel market. The three biggest refineries are Cilacap (348 MBCD), Balikpapan (260 MBCD) and Dumai (170 MBCD). Currently, government accelerates refineries development especially from Refinery Development Master Plan (RDMP) and Grass Root Refinery (GRR) projects to reduce fuel import. RDMP project is the revitalization of existing refineries to improve the capacity and competitiveness of refineries in Indonesia, while GRR project is construction of a new refinery.
The average of crude oil entering the Indonesian refineries from 2007 - 2018 was less than 1 million BPD.

On primary fuel production, Ron-88 (subsidized fuel) still dominates refinery production in Indonesia.

Low Sulphur Waxy Residue (LSWR) is a type of fuel widely produced on secondary fuel production.

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INDONESIA’S OIL REFINERY INFORMATION

<table>
<thead>
<tr>
<th>Refinery</th>
<th>Capacity</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cilacap</td>
<td>348 MBCD</td>
<td></td>
</tr>
<tr>
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<td>Balongan</td>
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</tr>
<tr>
<td>Plaju</td>
<td>118 MBCD</td>
<td></td>
</tr>
<tr>
<td>Tuban/TPPI</td>
<td>100 MBCD</td>
<td></td>
</tr>
<tr>
<td>PT IKP</td>
<td>6 MBCD</td>
<td></td>
</tr>
<tr>
<td>PT TWU</td>
<td>18 MBCD</td>
<td>Existing refinery (Private)</td>
</tr>
<tr>
<td>Sungai Pakning</td>
<td>50 MBCD</td>
<td></td>
</tr>
<tr>
<td>Kasim</td>
<td>10 MBCD</td>
<td></td>
</tr>
</tbody>
</table>

**Primary Fuel**

- Ron-88 (subsidized fuel) dominates refinery production in Indonesia.

**Secondary Fuel**

- Low Sulphur Waxy Residue (LSWR) is produced on secondary fuel production.

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**Oil Refineries Input**

- The average of crude oil entering the Indonesian refineries from 2007-2018 was less than 1 million BPD.

**Oil Refineries Output**

- On primary fuel production, Ron-88 still dominates refinery production in Indonesia.
In 2020, there are 9 refineries operated by Pertamina to supply domestic fuel market. The three biggest refineries are Cilacap (348 MBCD), Balikpapan (260 MBCD) and Dumai (170 MBCD). Currently, government accelerates refineries development especially from Refinery Development Master Plan (RDMP) and Grass Root Refinery (GRR) projects to reduce fuel import. RDMP project is the revitalization of existing refineries to improve the capacity and competitiveness of refineries in Indonesia, while GRR project is construction of a new refinery.

**Existing refinery (Pertamina)**

- **Cilacap**
  - Capacity: 348 MBCD
- **Balikpapan**
  - Capacity: 260 MBCD
- **Dumai**
  - Capacity: 170 MBCD

**PT TWU**

- Capacity: 18 MBCD

**Existing refinery (Private)**

- **Plaju**
  - Capacity: 118 MBCD
- **Balongan**
  - Capacity: 125 MBCD
- **Balogan (Phase 1)**
  - Capacity: 100 MBCD
- **PT IKP**
  - Capacity: 6 MBCD
- **Tuban/TPPI**
  - Capacity: 100 MBCD
- **Kasim**
  - Capacity: 50 MBCD
- **Kasim (Phase 1)**
  - Capacity: 10 MBCD
- **Kasim (Phase 2)**
  - Capacity: 10 MBCD

**RDMP Cilacap**

- Capex: USD 5-6 Billion
- Ownership: JV Pertamina - Saudi Aramco
- Fuel Quality: Euro V
- COD: 2024

**RDMP Balongan**

- (Phase 1)
  - Capex: USD 4 Billion
  - Ownership: Pertamina
  - Fuel Quality: Euro II
  - COD: 2023

**RDMP Balongan**

- (Phase 2)
  - Capex: USD 1.2 Billion
  - Ownership: Pertamina
  - Fuel Quality: Euro
  - COD: 2026

**RDMP Dumai**

- Capex: USD 4-5 Billion
- Ownership: Pertamina
- Fuel Quality: Euro V
- COD: 2025

**GRR Balikpapan (Phase 1)**

- Capex: USD 4 Billion
- Ownership: Pertamina
- Fuel Quality: Euro II
- COD: 2026

**GRR Balikpapan (Phase 2)**

- Capex: USD 1.9 Billion
- Ownership: Pertamina
- Fuel Quality: Euro V
- COD: 2026

**GRR Bontang**

- Capex: USD 11-15 Billion
- Ownership: JV Pertamina - OOG - Cosmo Energy
- Fuel Quality: Euro IV/V
- COD: 2026

**GRR Bontang**

- Capex: USD 14-16 Billion
- Ownership: JV Pertamina - Rosneft
- Fuel Quality: Euro V
- COD: 2026

**INDONESIA’S OIL REFINERY INFORMATION**

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**OIL REFINERIES INPUT**

**OIL REFINERIES OUTPUT**

**PRIMARY FUEL**

- On primary fuel production, Ron-88 (subsidized fuel) still dominates refinery production in Indonesia.

**SECONDARY FUEL**

- Low Sulphur Waxy Residue (LSWR) is a type of fuel widely produced on secondary fuel production.

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