Nickel in Europe

FRANCE
OVERALL TONNAGES: 107,000 TONNES

REFINING: 12,000 TONNES

IMPORTING & EXPORTING
NICKEL IMPORTS: 28,800 TONNES
NICKEL EXPORTS: 6,500 TONNES

FIRST USE
TOTAL: 36,000 TONNES

28,000 TONNES FROM PRIMARY NICKEL
8,000 TONNES FROM RECYCLED NICKEL

DEFINITIONS
First use of nickel: Conversion of nickel into intermediate products, such as stainless steel and alloys, which form the basis for nickel-containing end use goods.

END USE
TOTAL: 59,000 TONNES

42,000 TONNES FROM PRIMARY NICKEL
17,000 TONNES FROM RECYCLED NICKEL

End use of nickel: Conversion of first use nickel products into final nickel-containing goods used in wide range of end use sectors, for instance building and construction, medical devices, batteries, electrical and electronic equipment, kitchen equipment and food processing, industrial equipment, transport & aerospace.

Based on 2014 data
**Economic parameters**

**ESTIMATED ANNUAL VALUE OF PRODUCTION**

<table>
<thead>
<tr>
<th>Category</th>
<th>Value 1</th>
<th>Value 2</th>
<th>Value 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST USE</td>
<td>€1,073M</td>
<td>€1,023M</td>
<td>€654M</td>
</tr>
<tr>
<td>END USE</td>
<td>€1045M</td>
<td>€720M</td>
<td>€472M</td>
</tr>
<tr>
<td>WASTE MANAGEMENT &amp; RECYCLING</td>
<td>€235M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>€170M</td>
<td>€2,937M</td>
<td>€3,698M</td>
</tr>
</tbody>
</table>

**TOTAL VALUE OF PRODUCTION:** €7,915M

**JOBS**

- **Direct jobs**
  - Smelting & Refining: 861
  - First Use: 37,376
  - End Use: 42,740
  - Waste Management & Recycling: 833
  - Total: 81,800

- **Indirect jobs**
  - Smelting & Refining: N/A
  - First Use: N/A
  - End Use: N/A
  - Waste Management & Recycling: N/A
  - Total: N/A

**ESTIMATED ANNUAL VALUE ADDED**

<table>
<thead>
<tr>
<th>Category</th>
<th>Value 1</th>
<th>Value 2</th>
<th>Value 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIRST USE</td>
<td>€2,654M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>END USE</td>
<td>€2,311M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WASTE MANAGEMENT &amp; RECYCLING</td>
<td>€235M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TOTAL</td>
<td>€3,412M</td>
<td></td>
<td>€1,788M</td>
</tr>
</tbody>
</table>

**TOTAL VALUE ADDED:** €5,200M

*The production value is defined as turnover plus or minus the changes in stocks of finished products, work in progress and goods and services purchased for resale, minus the purchases of goods and services for resale, plus capitalized production, plus other operating income (excluding subsidies) – Eurostat based on 2014 data.*