

# BUSINESS CASE Total Raffinaderij Antwerpen nv



**Expertise in heavy project cargo**  
**Transparent communication**  
**Cost efficiency**

## Transport of 29 extremely heavy modules via Antwerp for the construction of new Total units

The Total Group is a **leading international integrated energy producer and provider with operations in over 130 countries**. In the Antwerp port area, Total has three production facilities, which together form an integrated refinery and petrochemicals platform. Its refinery is the Group's largest and most diversified refinery in Europe. To consolidate its key role in a competitive market, the oil and gas company decided to erect **2 new high-tech units in Antwerp**: the "OPTARA project". A total of 29 modules, each weighing up to 1,000 tonnes, were shipped from Spain to Antwerp. A number of modules arrived from other locations. How can such a complex investment be

completed successfully from both a technical and a logistics point of view? The infrastructure and **expertise in modular project cargo** in the **Port of Antwerp** played a crucial role.

**“ The Port of Antwerp inspired all stakeholders to search for solutions**

### COMPANY PROFILE

#### TOTAL'S ANTWERP PLATFORM

Total has three production facilities in the Antwerp port area which together form an integrated refinery and petrochemicals platform. The platform produces various petroleum products such as fuel oil, gasoline, LPG, diesel and kerosene, in addition to base chemicals such as olefins, C4 fractions and aromatics, which are used, for example, in the manufacture of polymers such as high density polyethylene. The Antwerp platform employs some 1,780 people. Its products are used in many applications for domestic and industrial use, e.g. in the packaging and automotive industries.

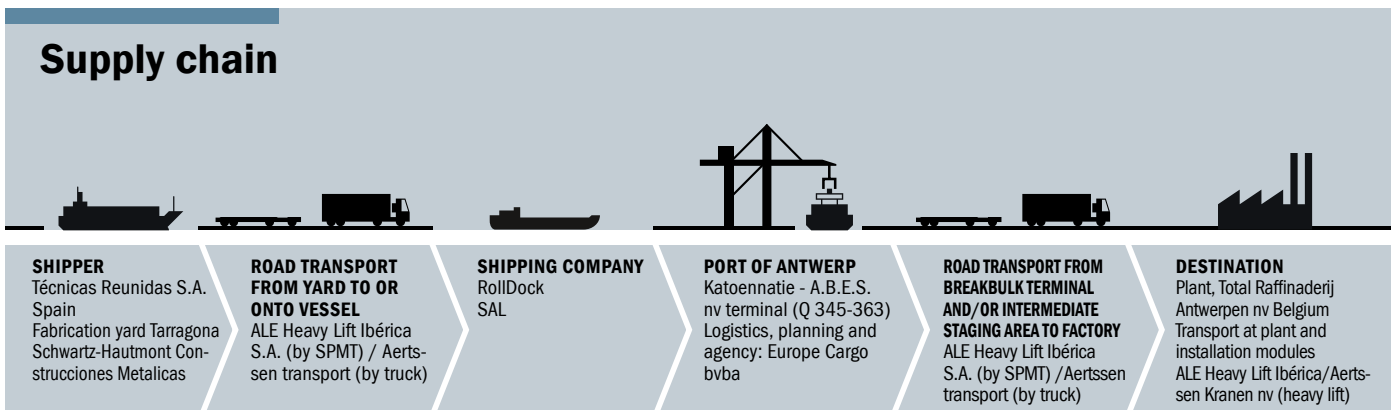
#### TOTAL RAFFINADERIJ ANTWERPEN NV

- The Total Group's largest and most complex refinery in Europe
- Production of fuels and basic products for the petrochemical industry
- Processes 17 million tonnes of petroleum per year
- 32 production installations
- 1,250 internal employees and 1,200 external employees on a daily basis

[www.be.total.com](http://www.be.total.com)

[www.portofantwerp.com](http://www.portofantwerp.com)

<div style="background-color: black; color: white; text-align: center; padding: 5px; font-weight: bold; font-size: 24px;">1</div> <h2 style="margin-top: 10px;">Challenge</h2> <p style="color: #e91e63;">Construction of 2 new units within a short lead time</p> <ul style="list-style-type: none"> <li>→ <b>TIME AND SPACE CONSTRAINTS</b> The Total plant in Antwerp has <b>insufficient space</b> to allow the on-site construction of the assembly components for the 2 high-tech new units. Moreover, the planned project time does not allow this.</li> <li>→ <b>SAFETY, COST MANAGEMENT</b> <b>Refinery production must keep running</b> during the work. In addition, Total does not want to run any risk of incidents or a possible shutdown.</li> <li>→ <b>COMPLEX PROJECT</b> The construction of the 2 units represents a tremendous technical challenge. Considering the number of stakeholders involved, <b>optimal collaboration</b> among all these actors is a prerequisite for the successful outcome.</li> </ul>	<div style="background-color: black; color: white; text-align: center; padding: 5px; font-weight: bold; font-size: 24px;">2</div> <h2 style="margin-top: 10px;">Solution</h2> <p style="color: #e91e63;">The expertise on heavy project cargo in the Port of Antwerp</p> <ul style="list-style-type: none"> <li>→ <b>WELL EQUIPPED PORT, ALSO FOR MODULAR PROJECT CARGO</b> 29 ready-for-use modules are shipped from Spain to the Port of Antwerp. The European project cargo hub accommodates <b>extensive technical knowledge</b> and a great diversity of infrastructure to receive abnormal and heavy project cargo.</li> <li>→ <b>TRANSPARENT COMMUNICATION BETWEEN PARTNERS</b> The Antwerp Port Authority is an important <b>facilitator</b> to coordinate the communication of the specialists involved, and to search together for solutions to the challenges in a constructive spirit.</li> <li>→ <b>FLEXIBILITY</b> The proper delivery of such substantial cargo at the final destination requires <b>exhaustive planning</b>, precision and flexibility from all partners: the route was repeatedly reviewed and the terminal and road infrastructure adapted to suit the needs.</li> </ul>	<div style="background-color: black; color: white; text-align: center; padding: 5px; font-weight: bold; font-size: 24px;">3</div> <h2 style="margin-top: 10px;">Result</h2> <p style="color: #e91e63;">Consolidate its position as leading player in a competitive market</p> <ul style="list-style-type: none"> <li>→ <b>INCIDENT-FREE AND TIMELY TRANSPORT</b> Thanks to the <b>well organised transport</b> via the Port of Antwerp, the construction of the extra units is proceeding according to plan. Without any incidents or accidents.</li> <li>→ <b>COST EFFICIENCY</b> The parallel activities in Spain and at the Antwerp Total plant ensure a <b>short lead time</b>. Production in the refinery keeps running, and the plant is at no time at risk of being shut down. Cost efficiency in the longer term.</li> <li>→ <b>KNOWLEDGE WITHIN THE TOTAL GROUP</b> This experience with and knowledge of modular project cargo is an <b>enriching experience for the whole Total Group</b>.</li> </ul>
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