The Port of Rotterdam Authority is leading the transition to sustainable energy and clean fuels. It has set clear targets for the future, including a 25% reduction in CO₂ emissions by 2030 compared to 2016 levels.

### TOTAL THROUGHPUT BY COMMODITY

<table>
<thead>
<tr>
<th>Year</th>
<th>Dry Bulk</th>
<th>Liquid Bulk</th>
<th>Containers</th>
<th>Breakbulk</th>
<th>Total Throughput</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018</td>
<td>323.2</td>
<td>323.9</td>
<td>321.2</td>
<td>143.4</td>
<td>1,457,315</td>
</tr>
<tr>
<td>2017</td>
<td>323.2</td>
<td>323.9</td>
<td>321.2</td>
<td>140.0</td>
<td>1,434,082</td>
</tr>
<tr>
<td>2016</td>
<td>323.9</td>
<td>321.2</td>
<td>140.0</td>
<td>24.1</td>
<td>1,474,648</td>
</tr>
</tbody>
</table>

### INCOMING & OUTGOING, GROUPED BY CONTINENT

**Europe**
- Inland waterways: 20% of total throughput
- Rail: 10% of total throughput
- Road: 20% of total throughput

**Asia**
- Inland waterways: 25% of total throughput
- Rail: 30% of total throughput
- Road: 20% of total throughput

**North America**
- Inland waterways: 15% of total throughput
- Rail: 20% of total throughput
- Road: 25% of total throughput

**South America**
- Inland waterways: 5% of total throughput
- Rail: 10% of total throughput
- Road: 20% of total throughput

**Oceania**
- Inland waterways: 10% of total throughput
- Rail: 15% of total throughput
- Road: 25% of total throughput

**Other regions**
- Inland waterways: 5% of total throughput
- Rail: 10% of total throughput
- Road: 20% of total throughput

### Breakbulk & Roll-on/Roll-off ships

- Number of calls: 2018 - 1,070,000
- Roll-on/Roll-off ships: 100,000
- General cargo ships: 190,000
- Container ships: 200,000

### Port infrastructure

- **SITES & TERMINALS**
  - Oil and products: 11
  - Gas and power: 11
  - Chemicals, lubricants and edible oils: 12
  - Vegetable oils: 2
  - Independent tank terminals for chemicals, biofuels and edible oils: 11
  - Vegetable oils refineries: 5
  - Chemical locations: 21
  - Independent tank terminals for oil products: 41
  - Refinery terminals: 16
  - Natural gas terminals: 1
  - Vegetable oils: 2
  - Independent tank terminals for oil products: 11
  - Fuel and power: 10
  - Independent terminal for aviation fuel: 1
  - Gas and oil: 1
  - Gas and power: 1

- **Utility terminals**
  - Gas and power: 10
  - General cargo: 1
  - Credits and design
  - Oil and products: 11
  - Gas and power: 11
  - Chemicals, lubricants and edible oils: 12
  - Vegetable oils: 2
  - Independent tank terminals for chemicals, biofuels and edible oils: 11
  - Vegetable oils refineries: 5
  - Chemical locations: 21
  - Independent tank terminals for oil products: 41
  - Refinery terminals: 16
  - Natural gas terminals: 1
  - Vegetable oils: 2
  - Independent tank terminals for oil products: 11
  - Fuel and power: 10
  - Independent terminal for aviation fuel: 1
  - Gas and oil: 1
  - Gas and power: 1

- **Other services**
  - Breakbulk: 1
  - Roll-on/Roll-off: 1
  - Roll-on/Roll-off ships: 1
  - General cargo ships: 1
  - Container ships: 1
  - Independent tank terminals for chemicals, biofuels and edible oils: 11
  - Vegetable oils refineries: 5
  - Chemical locations: 21
  - Independent tank terminals for oil products: 41
  - Refinery terminals: 16
  - Natural gas terminals: 1
  - Vegetable oils: 2
  - Independent tank terminals for oil products: 11
  - Fuel and power: 10
  - Independent terminal for aviation fuel: 1
  - Gas and oil: 1
  - Gas and power: 1
For the Port of Rotterdam Authority, the large oil spill in June was the low point of 2018 (see box). Investments in the port last year were at the highest level for a long time.

## CSR

The Port of Rotterdam Authority’s sustainable solutions are a vital part of the Port of Rotterdam Authority’s strategic vision. Without this energy transition, the Port of Rotterdam Authority would not be making the transition to a carbon-neutral port by 2050. The Port of Rotterdam Authority operated partly using biodiesel by 2018. The Port of Rotterdam Authority’s harbour patrol boats use straddle carriers partly using biodiesel. The Port of Rotterdam Authority is working on further reducing its CO2 emissions.

## Energy transition

The Port of Rotterdam Authority is committed to combat climate change and not to let climate change be an obstacle to viable energy transitions. The reduction of CO2 emissions and efficient use of new and renewable materials are important tasks for the Port Authority.

### Shell residual fueled for 14,600 households

The Pierre Residual Heat Initiative is being started in Rotterdam’s Kralingen district. In this, Shell, the Shell subsidiary of Shell, and the Port of Rotterdam Authority are continually accelerating the Dutch transition by heating. 96,000 Rotterdam households are being heated with residual fuel oil in the Port of Rotterdam. This means that in 2018, the Port of Rotterdam Authority reduced its CO2 emissions by 14.8 million tonnes.

### Largest ever oil spill in Rotterdam

The Port of Rotterdam Authority makes sure greener shipping becomes more accessible. The Port of Rotterdam Authority is implementing all the measures to enable ports and industry to safely reduce their emissions.

## Sustainability

The Port of Rotterdam Authority makes the safest and most efficient port possible and is working on an addition to the Port of Rotterdam. This requires close cooperation, for which the Port Authority undertakes various activities.

## Safety

The Port of Rotterdam is on the lookout for the latest and most efficient measures in the field of port safety and risk management. The Port Authority undertakes various activities, for which the Port Authority undertakes various activities.

## Space for today and tomorrow

The Port of Rotterdam Authority has written a new version of its annual report. The report is available online and is also available in an accessible format. The report includes a wide range of information about the Port of Rotterdam Authority’s activities.

## Digitisation

The Port of Rotterdam Authority is moving into the digital age, with the aim of becoming the world’s most efficient and innovative port. The Port of Rotterdam Authority has made a number of investments in the field of digitisation, such as the installation of a new radar tower. The Port of Rotterdam Authority is looking for new ways to optimise its activities and is therefore investing in digitisation.

## Innovation

The Port of Rotterdam Authority aims to be the safest and most efficient port. To maintain and develop its operations, the Port Authority is looking for new ways to optimise its activities and is therefore investing in digitisation. The Port of Rotterdam Authority is looking for new ways to optimise its activities and is therefore investing in digitisation.

## Accessibility

In order to strengthen its position as Europe’s largest logistical and industrial hub, the Port of Rotterdam works continuously to improve accessibility. In the context, sustainable solutions are always sought, such as applying new technologies and realising infrastructural projects.

## International Port Development

The Port of Rotterdam Authority is involved in international port developments as a consultant and partner.

## Work and Education

The Port of Rotterdam Authority is working on a number of initiatives to improve accessibility. The Port of Rotterdam Authority is working on a number of initiatives to improve accessibility.

## Added Value & Employment

The Port of Rotterdam Authority is working on a number of initiatives to improve accessibility.