

SHELL PERNIS EUROPE'S BIGGEST REFINERY

Across **50** different plants,

2,000 

highly trained men and women work together to keep the Pernis refinery in Rotterdam running safely and efficiently¹

They work on a site

covering 550 hectares¹ 1,000x 

Together, the team helps Pernis process

20,000,000

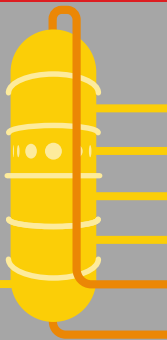
tonnes of crude oil every year

At full capacity, Pernis can refine

750  **LITRES**
OF OIL PER SECOND¹



As a complex refinery, it is equipped to refine **both light and heavy crude oils¹**



To do this, **crude oil is heated to 350°C inside a huge distilling column**, causing it to vaporise and rise¹

Each level in the column has its own temperature range. **The higher the level, the lower the temperature¹**

As they rise, **the oil vapours condense and turn into various liquids** used to produce a range of widely distributed products, including gasoline and diesel¹

There are **730,000,000 cars, trucks and buses** on our roads worldwide using nearly 2 trillion litres of petrol and diesel every year¹



To help meet this global demand, the Pernis team refines more than

400,000 BARRELS OF CRUDE OIL EVERY DAY¹



Energy efficiency programme results in equivalent energy savings of **50.000 cars off the road yearly.**



Seven hydrodesulphurisation sections ensure the production of **cleaner fuels, and help to significantly reduce Pernis' CO₂ emissions.**



KEEPING THE WORLD MOVING

Sources

- https://www.youtube.com/watch?v=Y_Tglvwaxr4
- <http://www.gasification.org/uploads/eventLibrary/gtc9806p.pdf>
- <http://www.shell.com/global/products-services/solutions-for-businesses/global-solutions/about-global-solutions/key-projects/pernis.html>