



**UNECE CONVENTION ON THE
TRANSBOUNDARY
EFFECTS OF INDUSTRIAL
ACCIDENTS**

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Profile of Shell

- We are active in more than 100 countries
- Worldwide we have 100,000 employees
- We produce around 3.2 million barrels of oil eq per day
- Our fuel retail network of around 45,000 service stations is the world's largest
- We sell transport fuel to some 10 million customers a day
- In 2009 we generated an income of \$ 12.7 billion,
- Had total capital investments of \$ 31.7 billion
- We are listed on the stock exchanges of Amsterdam, London and New York



Source: 2010 Annual Report

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Pernis refinery, Rotterdam



The largest refinery of Europe is a complex refinery

In 1936 a new refinery was built far from the residential area's of Rotterdam, on 425 hectares in the port area

Largest refinery in Europe, 20 million tons of crude/year (800 l/sec)

- 2 Crude distillers, high vacuum units, hydro desulphurisers
- Platformer, HF alkylation
- Catcracker, Hydrocracker, Oil gasification unit, Hycon
- 800 storage tanks
- Chemical installations from Shell and third parties: PVC, resins, solvents

In short: high pressure units, with hydrogen, hydrocarbons and hydrogen sulphide

Pernis refinery, Rotterdam



Some hard realities

- Incidents with a high impact for the neighbouring areas hardly occur, the last big explosion was in the winter of 1968.
- The hinder from large industrial complexes has decreased.
- Neighbouring communities need space for houses
- An environmental impact assessment required by law determines the impact of a new facility on their surroundings, not vice versa.
- Models for effect calculations are not perfect.

Conclusion: local authorities are sometimes ignorant of a buffer required between industry and residential areas

Pernis and its neighbours

- Regular contacts between Shell and authorities of neighbouring communities, e.g. via the “Neighbourhood Council”
- Regular emergency response exercises, also with local authorities
- We need to stay alert on new developments planned in neighbouring communities
- New process installations will be built in the heart of the refinery, the impact of demolishing buildings is discussed with authorities.
- Transparency required after all incidents or complaints
- Invite neighbours from time to time to have a look at the refinery (open days, monthly bus tours)

