



# Health, Safety & Environment fact sheet

## Yara Porsgrunn, 2010



**Location:** Porsgrunn, Norway

**Number of employees:** 392

**Annual production capacity (ton)**

**Ammonia:** 500,000

**Nitric acid:** 1,500,000

**NPK:** 2,000,000

**Calcium nitrate:** 600,000

**Certification:** ISO 9001, ISO 14001, OSHAS 18001

**Other systems:**

HACCP, EFMA Product Stewardship, ISPS

Health and safety indicators	
Employee sickness rate (%)	4.8
LTI-rate for own employees	0
LTI-rate for contractors	0
TRI-rate for employees and contractors	4.5
Major accidents during the year	0

Plant energy and water consumption	
Energy consumption (ammonia plant, GJ/t NH <sub>3</sub> )	30.8
Water consumption (m <sup>3</sup> /hour)	21,600

Emissions and waste	Ton per year	% of permit	Possible impacts
CO <sub>2</sub> to air	642,462	85	Global warming effects
N <sub>2</sub> O to air	734	20	Global warming effects
NO <sub>x</sub> to air	921	57	Acidification and haze formation
NH <sub>3</sub> -N to air	227	70	Acidification and haze formation
F to air	0.9	10	Acidification
Dust to air	301	80	Local nuisance and haze formation
N to water	1,007	110	Eutrophication (algae growth)
P to water	5.7	53	Eutrophication (algae growth)
Hazardous waste	76	-	
Catalyst for recover	0	-	
Non-hazardous waste	3,988	-	

### Actions for further improvements

- Conduct the COPD-project to look at possible relations between reduced lung function among employees and their occupational environment
- Conduct the BBS-program to improve our own safety-behavior
- Stabilize NO<sub>2</sub> and N<sub>2</sub>O levels from nitric acid plants on new reduced levels

### Community activities

- Sponsoring of:
- Sports clubs for youth
  - Cultural events

LTI (Lost-Time Injury) rate: Number of injuries with absence from work in excess of day of injury, per million hours worked

TRI (Total Recordable Injury) rate: Number of injuries with absence from work + temporary lighter work tasks + medical treatment, per million hours worked

Major accident: Accident leading to fatality or serious bodily harm, property damage or loss of production in excess of € 10 million, significant environmental incident