

Nitrogen Crisis – Answer Sheet

Stakeholders

- Farmers (or BBB, Farmers Defence Force)
- Politicians (or ministry of Agriculture, ministry of the Interior, left-wing, right-wing)
- Scientists (or RIVM, Commissie Remkes)
- Industry sector
- Transport sector
- Construction workers (or FNV)
- Daily commuters
- Citizens
- Environmentalists (or Greenpeace, Urgenda, Natuur en Milieu organisations)
- Raad van State

Sources of nitrogen pollution

Primary sources

- Agriculture (NH₃)
- Industry (NO_x)
- Households (NO_x)
- Transport (NO_x)
- Construction work (NO_x)

Secondary sources

- High demand for dairy & meat
- Nitrogen from other countries
- Not living near the workplace

Environmental & health consequences

- Soil acidification
- Loss of biodiversity
- Damages the ozone layer
- Decrease of water quality (dead zones)
- Smog, bad for the lungs
- Speeds up global warming

Possible solutions

Agriculture

- Less proteins in the food of the cows
- Divide urine and manure
- Add water to the manure
- Air fresheners in the stalls
- Less fertilizer

Transport

- More electric vehicles
- More public transport / bikes
- Lower speed limit
- Decrease import & export

Nature

- More trees and plants

Industry

- Hydrogen as an energy carrier
- Decrease industry

Citizens

- Less consumption of meat
- Cut down on energy use
- Live closer to the workplace

Countermeasures and policies that already have been undertaken by the Dutch government	→	Consequences of those policies
<p>-Assigning nitrogen space: a maximum amount of nitrogen that a farm or company can emit</p> <p>- PAS</p> <p>-Reducing speed limit from 130Km to 100Km in order to reduce the amount of nitrogen emitted from cars and traffic.</p> <p>- Buy out farms near Natura 2000 areas</p> <p>- Subsidize changes to the stalls</p> <p>- New rules for the amount of protein in the food of cattle</p> <p>- Subsidize electric vehicles</p>	→ → → → → → →	<p>Emissions trading between companies and industries / Cutting in the 'space' of agricultural sector to make 'space' for construction work</p> <p>Scandal because it was based on the assumption of reducing nitrogen in the future. The PAS got cancelled and all construction work was put on hold.</p> <p>Reduces only a small amount of nitrogen. Resistance from the citizens.</p> <p>Angry farmers because they are getting sick of all the regulations and amount of money that they have to pay themselves. Farms are becoming 'high-tech' companies, more stall fires due to the increasing amount of electricity in the stalls.</p> <p>Costs a lot of money, but generally agreed upon as a good solution. The demand for green energy is becoming higher.</p>