Dutch projections 2017
Update of the NEV2015

Benno Jimmink with courtesy of Winand Smeets
RIVM-MIL
PBL

Dutch projections 2017 | 12th May
2020 and 2030 projected emissions of SO$_2$, NO$_x$, NMVOC, NH$_3$ and PM$_{2.5}$

- Annually updated
- by PBL together with RIVM

Dutch projections 2017 | 12th May
Why?

- used by RIVM as tool for monitoring & planning in the National Cooperation Programme Air Quality (NSL) and the Programmatic Approach for Nitrogen (PAS).

- to produce large-scale concentration- and deposition maps for the Netherlands (GCN and GDN) (Velders et al., 2017; RIVM, 2017).

- Furthermore projections are used to evaluate the emission reduction targets from the EU NEC Directive.
What?

- light update (annually):
  - latest historical data
  - latest policy developments
  - no updated activity or energy projections (except transport)

- once in three years a thorough update
  - with updated economic scenario
  - with update of activity and energy projections
  - with detailed study on elaboration of policy developments
How?

- 2 policy scenarios
  - existing policy: “with measures” V
  - intended policy: “with additional measures” VV

- Based on projected fuel sales

- Projected energy and activity data from Central Planning Bureau (CPB) and

- Dutch National Energy Outlook (NEV2015)

- Background report in Dutch: Smeets et al. (2016)
Dutch trend of emissions compared to NEC ceilings

Source: The Netherlands Pollutant Release & Transfer Register.

Date: 16/May/2017
# Projections for Sulphur dioxides (SO₂)

<table>
<thead>
<tr>
<th>Sector</th>
<th>Realisation (Gg)</th>
<th>Projection (Gg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Industry</td>
<td>14.9</td>
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<tr>
<td>Energy¹</td>
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<td>Refineries</td>
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<tr>
<td>Total</td>
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<tr>
<td>Shipping NCP and inland waters²</td>
<td>63.8</td>
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<tr>
<td>Emission ceiling</td>
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</tbody>
</table>

¹ Including electricity, heat and district heating
² shipping NCP and inland waters include international shipping and inland shipping
## Projections for Nitrogen oxides (NO\textsubscript{x})

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<thead>
<tr>
<th>Sector</th>
<th>Realisation (Gg)</th>
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<tbody>
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## Projections for NMVOC

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<td>Emission ceiling</td>
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## Projections for Particulate Matter (PM$_{2.5}$)

<table>
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Thank you!