Scientific Assessment Report 2016

Convention on Long-Range Transboundary Air Pollution
Acidification: large improvements
Some pollutants seem easier to reduce

While GDP doubled!
<table>
<thead>
<tr>
<th>Unfinished work</th>
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<tbody>
<tr>
<td><strong>Loss of life expectance (months)</strong></td>
</tr>
<tr>
<td><strong>Plant species threatened (%)</strong></td>
</tr>
<tr>
<td><strong>Mercury accumulation in soil (CL-exceedance)</strong></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Number one environmental cause of premature death</th>
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<tbody>
<tr>
<td>With land use change and climate change main cause species loss</td>
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<tr>
<td>Long term risks due to accumulation of HM &amp; POP in food chains</td>
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</tbody>
</table>
Majority of European population is exposed to concentrations above WHO guideline levels.

UNECE: 576,000 premature deaths due to PM = 10x higher than due to traffic accidents.
Focus on ammonia for a cost-effective reduction of PM2.5-exposure
Ozone requires Northern Hemispheric cooperation, including methane abatement.
Healthy air quality: actions at different levels

Continental
1. Make sure Euro-6 standards work in reality
2. Implement climate & energy targets
3. Emission-standards for e.g. wood burning
4. Emission-standards for large cattle farms

National
1. Ratify LRTAP Protocols
2. Control on maintenance of Euro-6 vehicles
3. Scrapping of old vehicles/motorcycles
4. Enforce (agricultural) emission regulation

Cities
1. Low emission zones
2. Electric vehicles
3. Speed limits highways
4. Healthy city design
   – walking/cycling/public transport

2050 scenario: Climate & Energy Policy is as important as MTFR-measures to reduce PM2.5 exposure
Summary

• Further international coordination remains necessary to reduce background levels of PM and ozone

• Ozone requires Northern Hemispheric cooperation that includes methane abatement

• Ammonia emission reduction will have transboundary impacts: reduced urban PM-exposure and biodiversity protection

• Climate & energy measures together with additional end-of-pipe measures and cost-effective local actions on transport & domestic heating would enable meeting WHO-guideline values for PM in most parts in Europe
To do list

• **Shorten text**: decrease duplications with WGE Trend report and CEP-Batumi-report; check consistency between reports

• **Edit text and figures, add references**, data should have UNECE coverage

• **Add text** on ‘world avoided’, North America, long term perspective/sustainable development

• **Add annex** with country emission data 1990-2030 (CEIP/CIAM)
Request

• Mail comments on SPM before 22 sept
• Mail comments on AR-text before 8 October

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