Manure storage

Chair: Shabtai Bittman
Rapporteur: Wilfried Winiwarter
Annex IX Guidance document

• Cost data for major processes compiled
• Agreement of cost data at TFRN-5

• Further Procedure:
  – Convert to GAINS
  – Assess costs for ambition levels for European countries
  – Update of guidance document
## Abatement options: slurry stores

<table>
<thead>
<tr>
<th></th>
<th>Option A</th>
<th>Option B</th>
<th>Option C</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Existing</strong></td>
<td>≥40% - natural crust, floating cover, e.g. peat, Leca, chopped straw</td>
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<td>≥40% - natural crust, floating cover, e.g. peat, Leca, chopped straw; delay in requirement until Dec 2017 or 2019)</td>
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<tr>
<td></td>
<td>Cost: 0 to 1.10 Euro/m3 storage capacity /yr</td>
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<tr>
<td><strong>New</strong></td>
<td>≥80% – e.g. storage bags; rigid lids; tents</td>
<td>≥60% - e.g. plastic covers</td>
<td>≥40% - natural crust; floating cover, e.g. peat, Leca, chopped straw</td>
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<tr>
<td></td>
<td>Cost: 2 to 5 euro/m3 storage capacity/yr</td>
<td>Cost: 1.25 to 1.9 euro/m3 storage capacity/yr</td>
<td>Cost: 0 to 1.10 Euro/m3 storage capacity /yr</td>
</tr>
</tbody>
</table>
Abatement options: solid manure

Solid manure: sheet covers: 0.5 to 1.0 euro/tonne /yr  (UK)

(“... so far as [a country] considers them technically and economically feasible”)
Book project

• Authors: Shabtai Bittman, Barbara Amon, Carlos Pineiro, Andy Vander Zaag, Laura Valli, Wilfried Winiwarter

• Contributing authors: Harald Menzi, Helmut Döhler, Tom Mieselbrook, Ken Smith, Lena Rodhe, Colin Burton

• BA and LV: emission abatement

• CP and WW: cost data & fit to GAINS scheme

• AV: GHG interactions