What are the present challenges for Danish landfill operators?

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Outline

• Presentation of Danish Waste Association
• Short introduction to the landfill situation in DK
• 3 challenges for the Landfill operators
Who are we

• Danish Waste Association is a political interest organisation consisting of municipal waste entities. Our purpose is to promote the members' interests regarding the waste management sector. The association has a total of 51 members representing municipalities, inter-municipal waste management companies, and facilities for hazardous waste in Denmark and the Faroe Islands.
Situation in DK

• Since 1992 all “new” landfills have to be owned by public authorities (municipalities) Public owned landfills cannot earn money (due to the “self-cost principle”). In 2012; 41 landfills met the EU landfill legislation; this number was 105 in 2007.
% Waste to landfills in DK
## Landfill 2011

<table>
<thead>
<tr>
<th>Waste type</th>
<th>Tonnes</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral (incl. Inert)</td>
<td>149.000</td>
<td>6</td>
</tr>
<tr>
<td>Hazardous</td>
<td>142.000</td>
<td>6</td>
</tr>
<tr>
<td>Mixed (non-Hazardous)</td>
<td>306.000</td>
<td>13</td>
</tr>
<tr>
<td>Contaminated Soil</td>
<td>1,481.000</td>
<td>61</td>
</tr>
<tr>
<td>Clean Soil</td>
<td>346.000</td>
<td>14</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>2,424.000</td>
<td>100</td>
</tr>
</tbody>
</table>
Challenges

1. Acceptance criteria depending on the location of the landfill (inland or close to the sea)
2. Landfill Classifications
3. Discussions with the authorities
Acceptance criteria depending on the location of the landfill (inland or close to the sea)

• Landfills has to be located close to the see (15 km)
• Site factor can cause problems if you want to use a risk assessment – no guideline
• Existing inland landfills for non-hazardous (mixed) waste shall be closed down when established capacity are utilized - or latest by year 2020
Landfill Classifications

- Divided into 4 subcategories

<table>
<thead>
<tr>
<th>EU</th>
<th>Inert</th>
<th>Non Hazardous</th>
<th>Hazardous</th>
</tr>
</thead>
<tbody>
<tr>
<td>DK</td>
<td>Inert</td>
<td>Mixed</td>
<td>Mineral</td>
</tr>
</tbody>
</table>

- What is What ???
Discussions with the authorities

• The inspection authority, is handled by The Danish EPA Agency as regarding all public owned landfills
• Lack of quality and the authority is not competent enough
• They interpret the law very different on different issues such as:
  • Waste acceptance and characterization of waste
  • Positive lists
  • Gas monitoring on new landfills
  • Too slow feedback time