Content

• Domsjö Fiber
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• Domsjö Fabriker
Raw material optimization
Forestry affecting climate change

Annual change in growing stocks in the period 1990 - 2005 (%)

One fifth of the emissions caused by man originate from deforestation and forest degradation. That is the largest individual source of emissions.

Source: The Swedish Forest Industries Federation
The development of the Swedish standing stock of timber

Source: Swedish Forest Agency

*) m³sk = Forest cubic meters

**) SKA 08 = a national forest prognosis project
Growth is larger than felling

Source: National Forest Survey

*) m³sk = Forest cubic meters
The carbon absorbed and released by the forest over the lifecycle

Source: SLU (The Swedish University of Agricultural Sciences)
Whatever can be made of oil can be made of wood
Domsjö Fabriker

The unique Biorefinery

We make more from the tree!
Products of Mo and Domsjö in 1945
The Fiber Gap

Available oil and cotton based fibres vs Market

Source: The Swedish school of textiles
How shall we dress in the future?

More than 11% of the chemicals used in the agriculture and 25% of all pesticides are used in the cotton plantations.

In addition, high water usage create problems in dry areas.
We make more from the tree
Our products

- Bioethanol
- Biogas
- Bioresin
- Lignin
- Bioenergy
- Carbon acid
- Specialty cellulose
Additional environmental contributions

- Domsjös annual production of BioEthanol will drive a car 3 900 laps around the globe!

- 120 000 tons lignin reduce CO2-emissions by more than 2 million tons, which correspond to roughly 600 000 Volvo V70 cars driving 15 000 km/year

- Domsjö is the largest biogas producer in Sweden
  - 5% of Sweden's total biogas production
  - 80 GWh/year, equivalent to 8 000 000 liter diesel
# The value of 1 kg wood?

<table>
<thead>
<tr>
<th>Material</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>In the forest</td>
<td>1 SEK/kg</td>
</tr>
<tr>
<td>Newsprint</td>
<td>4-5 SEK/kg</td>
</tr>
<tr>
<td>Lignin</td>
<td>7-8 SEK/kg</td>
</tr>
<tr>
<td>Ethanol</td>
<td>7 SEK/kg</td>
</tr>
<tr>
<td>Cellulose</td>
<td>10-20 SEK/kg</td>
</tr>
</tbody>
</table>
Aditya Birla Group

- A leading multinational from India
- 50 companies across 6 continents in 36 countries
- Revenues of US $ 40 billion
- Over 120 state-of-the-art manufacturing units
- Over 60% revenues from international operations
- Anchored by 136,000 employees belonging to 42 different nationalities
- 1.5 million shareholders
If we take climate change seriously

The substitution effect
   – Increase harvesting

Whatever can be made of oil can be made of wood.
   – But it must be cost-effective
Thank you!