Forests for fashion – fashion for forests

Paola Deda

United Nations Economic Commission for Europe, UNECE
Policy analysis and market trends

Global fibre market

Sources: Quantis 2018, UNEP 2020, ECE/FAO 2014

Environmental effects of fibre production

<table>
<thead>
<tr>
<th></th>
<th>Lyocell</th>
<th>Viscose</th>
<th>Cotton</th>
<th>Polyester</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water demand (1,000 l/kg)</td>
<td>0.1</td>
<td>0.25-0.5</td>
<td>7-20*</td>
<td>0.13</td>
</tr>
<tr>
<td>Land demand (m²/kg)</td>
<td>17-66</td>
<td>17-66</td>
<td>66-200</td>
<td>...</td>
</tr>
<tr>
<td>Chemicals demand (g/kg)</td>
<td>345</td>
<td>...</td>
<td>350</td>
<td>...</td>
</tr>
<tr>
<td>Energy demand (MJ/kg)**</td>
<td>20-45</td>
<td>20-60</td>
<td>20-40</td>
<td>70-97</td>
</tr>
<tr>
<td>Greenhouse gas emissions (CO₂-eq/kg)</td>
<td>-0.25-0.3</td>
<td>0.9-1.6</td>
<td>2.2-4.4</td>
<td>4.1-4.5</td>
</tr>
</tbody>
</table>

Notes: * if irrigation is needed. ** non-renewable primary energy.
Source: Kalt and Zauner, 2001; Shen and Patel, 2010.
The Forests for Fashion Initiative
State of the World’s Forests
FAO 2020

Annual forest area net change, by decade and region, 1990–2020

Engagement and collaboration

UN ALLIANCE FOR SUSTAINABLE FASHION

21 March
International Day of Forests

RSF
THE ROAD SAFETY FUND

LE SPORT ET LE BOIS PARTAGENT LA MÊME AMBITION COLLECTIVE: CELLE DU MIEUX VIVRE ET DE LA PERENNITÉ
THANK YOU

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07 September 2021, online