TRANSITIONING OF TEXTILE AND LEATHER SECTORS TO CIRCULAR ECONOMY

**The Project**

WWF-Pakistan, in collaboration with the International Labour Organization (ILO) and funding from the European Union, is implementing an eight-year project titled “International Labour and Environmental Standards Application in Pakistan’s SMEs (ILES)”. The project aims to contribute to improved environmental sustainability and livelihoods in Pakistan by supporting sustainable economic growth and development.

Enhanced capacities of textile and leather SMEs

Improved solid waste management and reduced air and noise pollution

12 per cent reduction in water, chemical and energy

Business Case for Implementing SEMPs:

With the assistance of the Cleaner Production Institute (CPI), WWF-Pakistan engaged textile and leather SMEs to improve water and energy efficiency, promote safe use and management of hazardous chemicals, and mitigate pollution. The business case is based on the validated performance data from selected ILES partner units and reveals the following outcomes:

- **50 SMEs**: Invested PKR 806.110 million on various SEMPs
- **WATER**: PKR 203.480 million
- **ELECTRICITY**: PKR 472.740 million
- **THERMAL ENERGY**: PKR 129.93 million
### Annual savings through reduction in environmental footprint

<table>
<thead>
<tr>
<th>Resource</th>
<th>Savings</th>
<th>Percentage Reduction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>1,541,547 m³</td>
<td>24%</td>
</tr>
<tr>
<td>CO₂</td>
<td>36,266 tonnes</td>
<td>27%</td>
</tr>
<tr>
<td>Chemicals</td>
<td>2,522 tonnes</td>
<td>10%</td>
</tr>
<tr>
<td>Energy</td>
<td>129,113 MWh</td>
<td>31%</td>
</tr>
</tbody>
</table>

#### Financial savings of PKR 530 million

### Smart Environmental Management Practices

- Installation of energy efficient lights
- Installation of energy efficient motors
- Air leakage management
- Optimization of air pressure at machine
- Installation of hot water absorption chiller
- Boiler feed water treatment
- Condensate monitoring and management
- Steam network improvement
- Insulation improvement
- Waste heat recovery system
- Water consumption monitoring, and improvement
- Process water reuse and recycling
- Automatic water shutoff valve
- Management of hazardous waste
- Chemical risk assessment

*The percentage reduction is calculated in comparison to the baseline for the intervention.*

Join us in promoting sustainability in the textile and leather sectors of Pakistan.

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