



# Sustainable Management Practices in the textile industry for growing economy

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# WWF's Mission

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This project is funded by  
the European Union

To stop the degradation of the planet's natural resources and to build a future in which humans live in harmony with nature, by:



- conserving the world's biological diversity
- ensuring that the use of renewable natural resources is sustainable
- promoting the reduction of pollution and wasteful consumption



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# Background



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Pakistan has  
ratified a  
number of  
international  
conventions

Textile  
Industry in  
Pakistan  
contributes 8.5  
% of the  
country's GDP  
& 57% in  
exports

Majority of  
the industry  
is unable to  
implement  
the MEAs

Unable to  
develop linka  
ges of  
international  
conventions  
with local  
standards

Textile sector  
consumes  
huge amount  
of water and  
produces  
more  
pollution



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# Background (contd.)

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WWF-Pakistan  
took an initiative  
with ILO, named  
"International  
Labour and  
Environmental  
Standards (ILES)  
Application in  
Pakistan's SMEs"  
funded by the  
EU.

This project will  
devise practices  
leading towards  
resource  
efficiency in the  
textile sector

It will also  
help develop  
linkages between  
international and  
local standards



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# Methodology



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Resource efficiency

SEMPs adopted

Smart Environmental Management  
Practices (SEMPs) devised

Survey on water consumption

Analyzing MEAs

Industrial Mobilization





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# Findings so far!

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Pakistan signed 14 environmental agreements that links to industrial compliance

Surveys conducted & recommendations made in the form of Smart Environmental Management Practices (SEMPs) for the resource efficiency

Capacity Building of local institution/authorities is needed for the implementation of local environmental laws



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# Findings so far! (contd.)



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SEMPs	Pollution Aspect	Local Laws / Guidelines / Plans	Regional and International Laws	Associated Benefits
Avoid Use of PCB's	Solid Waste, Wastewater	National Implementation Plan	Stockholm Convention	benefit due to securing the business with leading brands
Use of Azo-free Dyes	Wastewater, Product Contamination	-	REACH	benefit due to securing the business
Caustic Recovery Plant in Textile Processing	Wastewater	Wastewater NEQS	Basel Convention,	Investment of around 35000 Euros with Payback period of 1.5 years
Waste Heat Recovery from Water	Wastewater and Air Emissions	Wastewater NEQS	KYOTO Protocol	Investment of around 4000 Euros with payback within 6 Months
Use of HFCs as refrigerant	Air Emissions / POPs	UNDP ODS Project	Montreal Protocol	benefit due to securing the business with leading brands
Combustion Efficiency Improvement	Air Emissions	Air Emission NEQS	KYOTO Protocol	Investment of around 4000 Euros with payback within 3 Months



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# Analysis

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An industry can save more than 110,000 m<sup>3</sup> of water per year through an investment of 100,000 Euros with a pay-back period of 5-10 months

Alignment of local standards with MEAs will add value in the exports of the textile industry

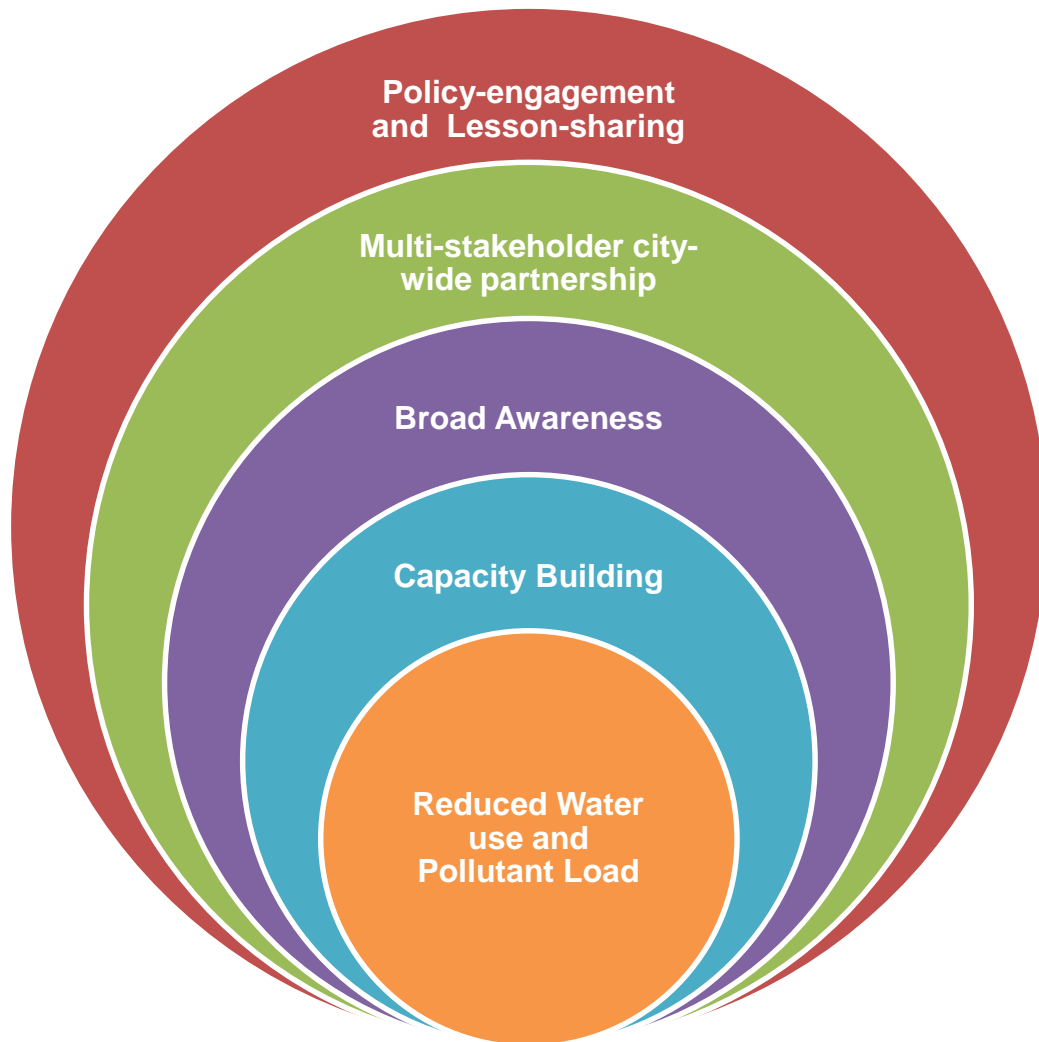
Adoption of SEMPs in textile industries will make them resources efficient

SEMPs are the solutions for the aggravating water issues in the country

Training sessions on environmental standards and SEMPs will better equip industrial officials/workers to adopt MEAs and comply with these standards



# Water Stewardship Project (2013-15)



Paper Production Floor



Textile Industry



Leather Industry



Sugar process Water





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# Investments and Business case (Win-Win Situation)



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Investment by 35 Businesses (1 Million Euros)  
Saving/yr (1.53 Million Euros)

Water 4.46 million m<sup>3</sup>/yr (5 cusec)  
(3% - 31%)

200 x 10<sup>6</sup> MJ/yr (58,300 MWh)

11,000 ton CO<sub>2</sub>/yr

Chemicals reduction  
Pollution reduction (10 -30%)



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Thank You

