


TEST Step by Step - PLAN

	Step	Purpose
 P L N	1.1. Initial screening	Initial screening: go/no-go for TEST
	1.2 Scoping and Policy	Top management commitment to RECP and scope of the work
	1.3 TEST team	Plan, organize and train internal company team (as well as external team, if created).
	1.4 Identifying total cost of NPO and priority flows	Starting the diagnosis: Identify the non-product output (NPO) costs and volumes at company system boundary.
	1.5 Setting up focus areas	Continuing the diagnosis: identify focus areas at the level of production steps (e.g. cost centres).
	1.6 Revealing sources and causes of inefficiency	Concluding the diagnosis: identify sources and reveal root causes of inefficiency and pollution within focus areas.
	1.7 Option generation and feasibility analysis	Broadening the scope of possible improvement solutions and techno-economic analysis of a set of optimized feasible measures
	1.8 Action plan	Plan of actions for implementing and monitoring validated measures.



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1.2 Scoping and policy

How to secure direction of the business toward resource efficiency?



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



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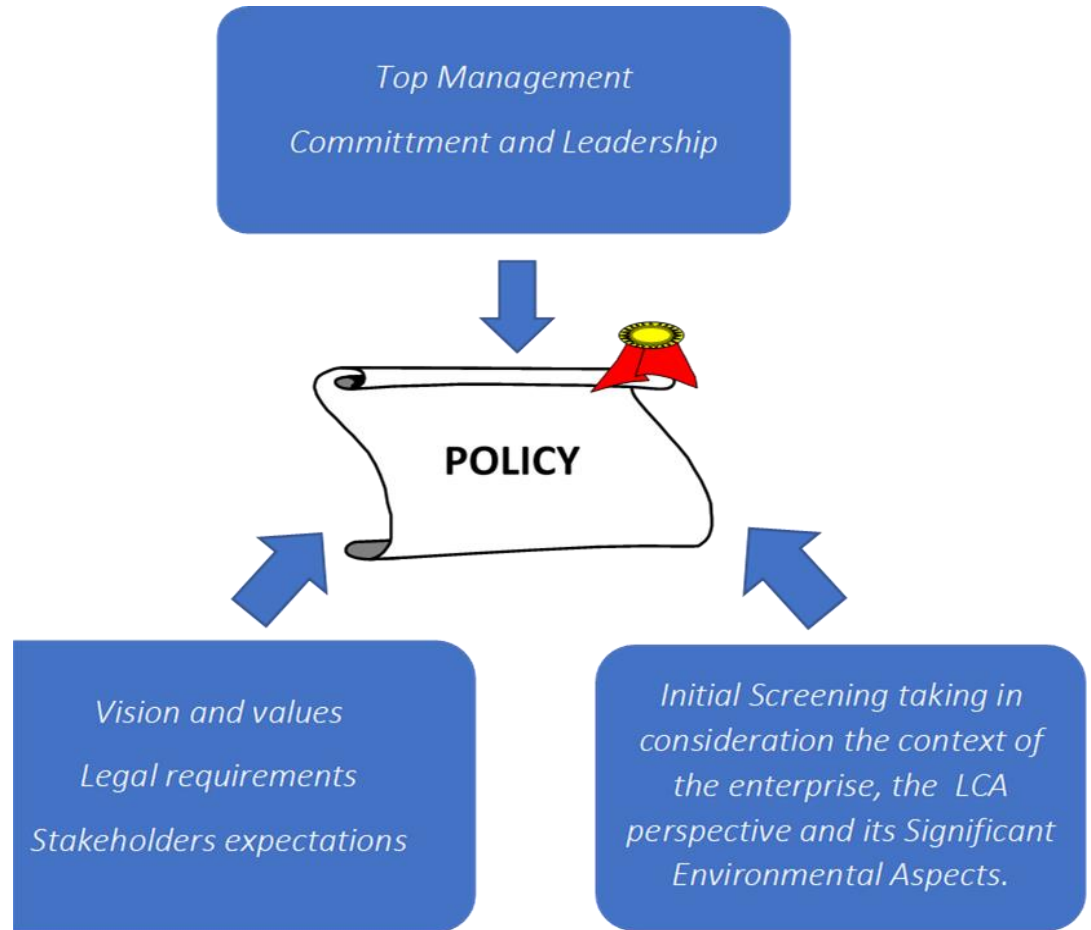
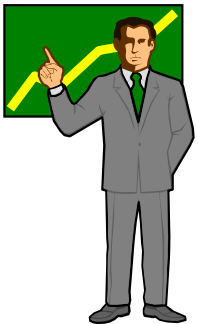
- The rationale
- Policy Contents
- Stakeholders views
- Life cycle perspective
- Policy use and implementation
- Policy linkage with EMS
- Highlights



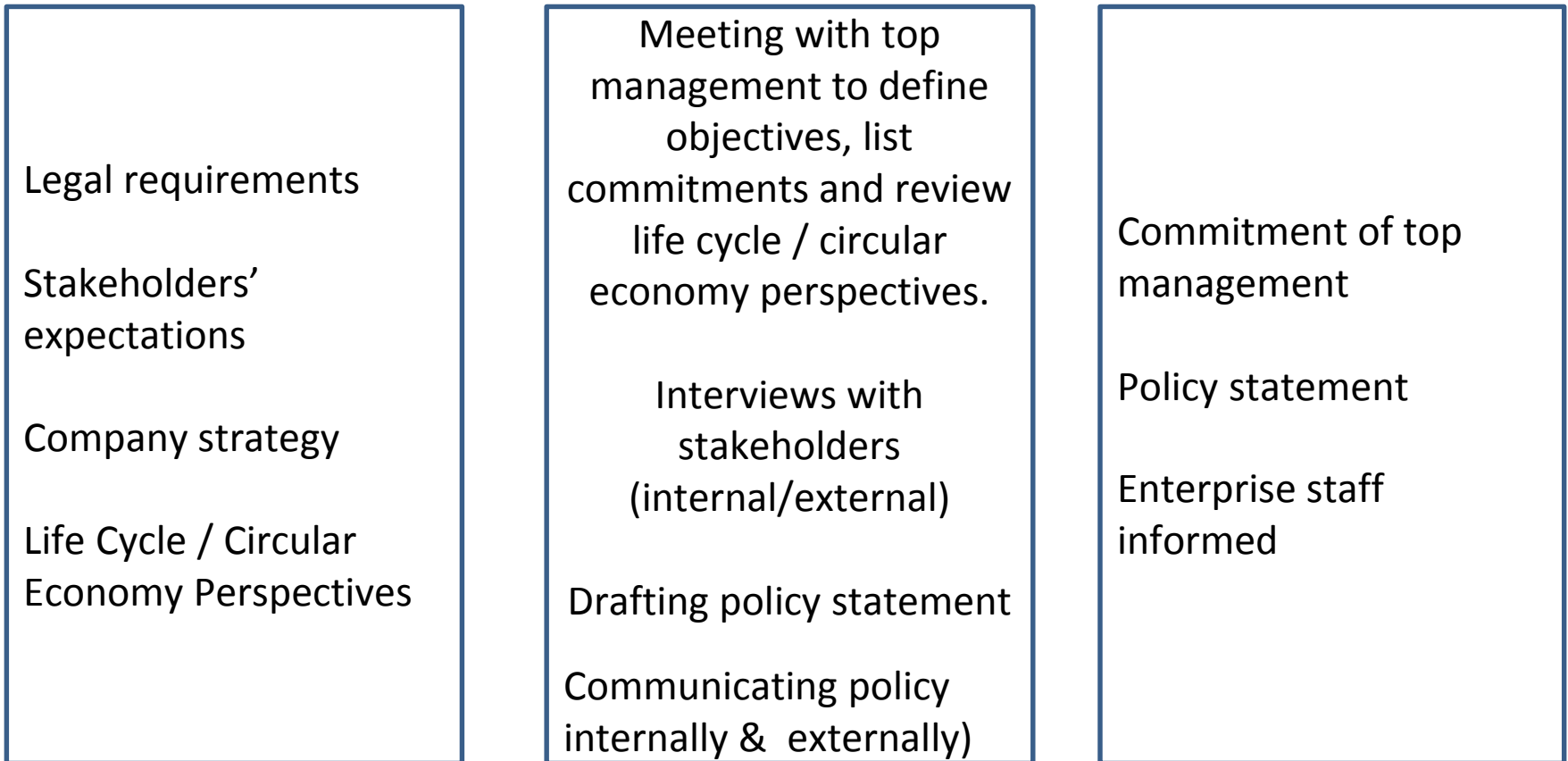
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Rationale

Top management leadership and commitment are needed to initiate changes at the level of the enterprise goals and guiding ideas, which will influence and determine the performance of the whole enterprise,



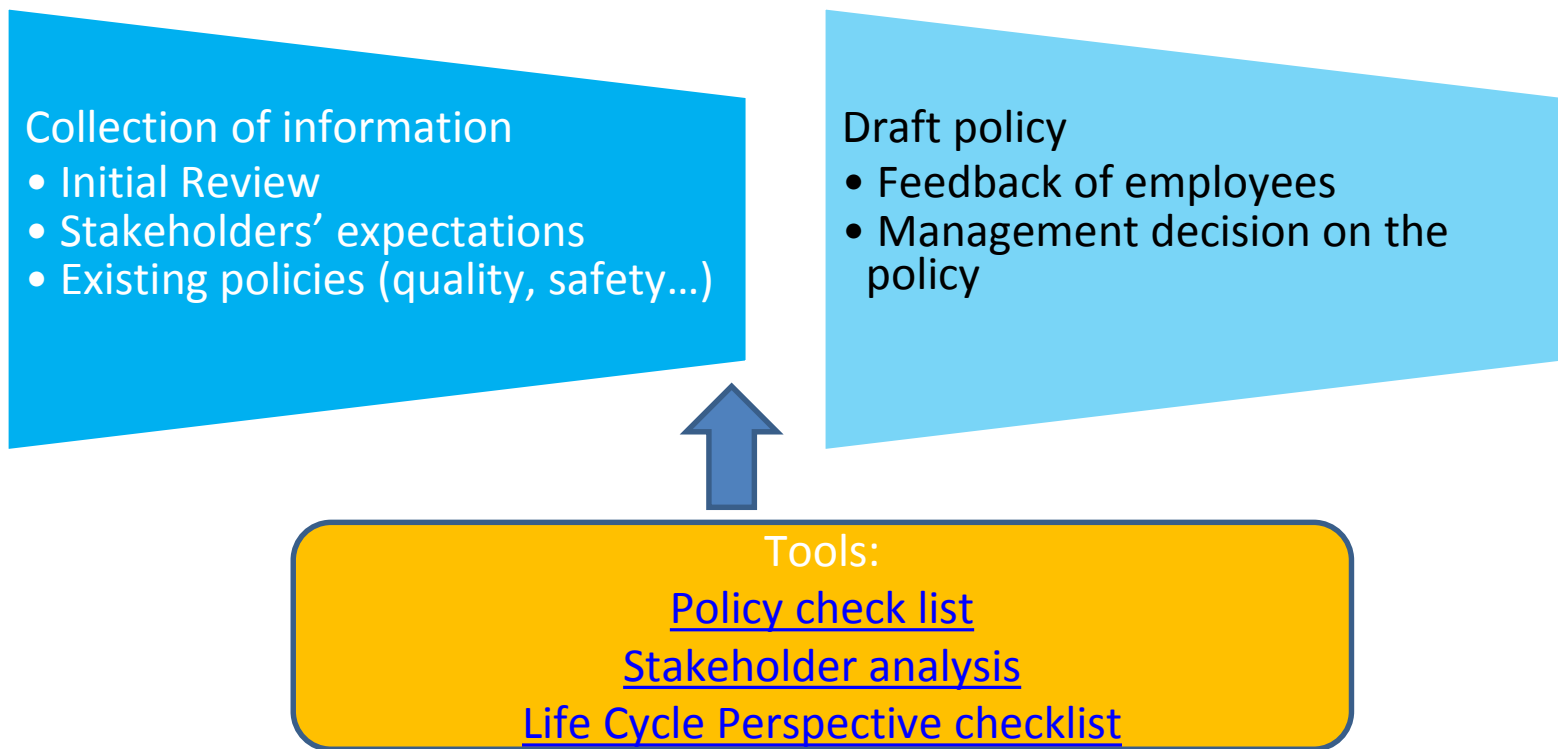
Overview of Step 1.2



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Policy design



Key elements of a policy statement

Framework for relevant RE objectives

- Action principles:
 - Saving of resources
 - Energy efficiency
 - Prevention and reduction of environmental burdens
 - Legal compliance
 - Information and training of staff
 - Continual improvement of company's environmental performance and adoption of BATs
 - Address key environmental issues of the business along the life cycle and applying Eco-design criteria for designing products

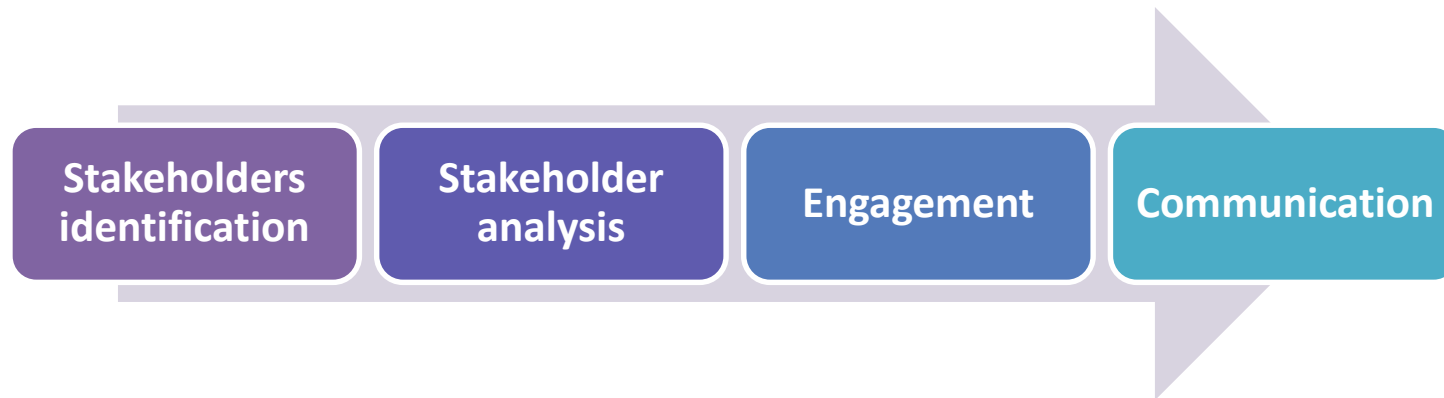


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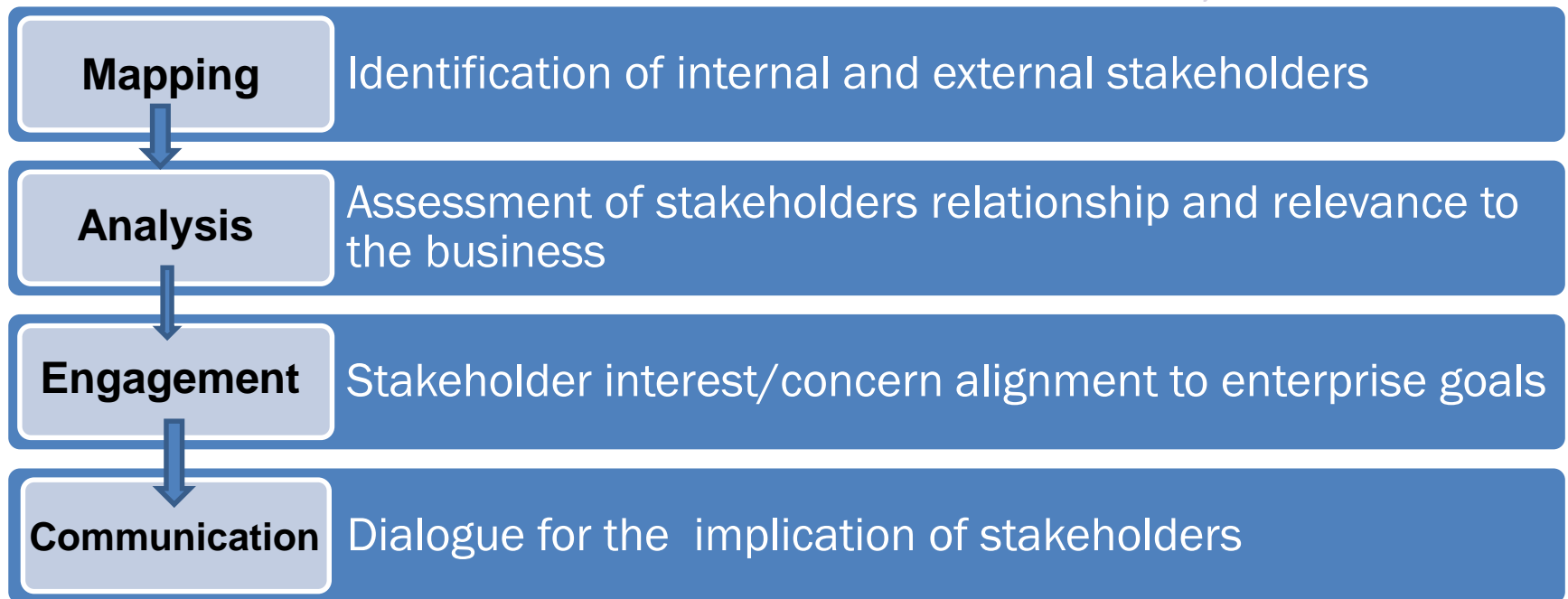
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Understanding and integrating stakeholders views

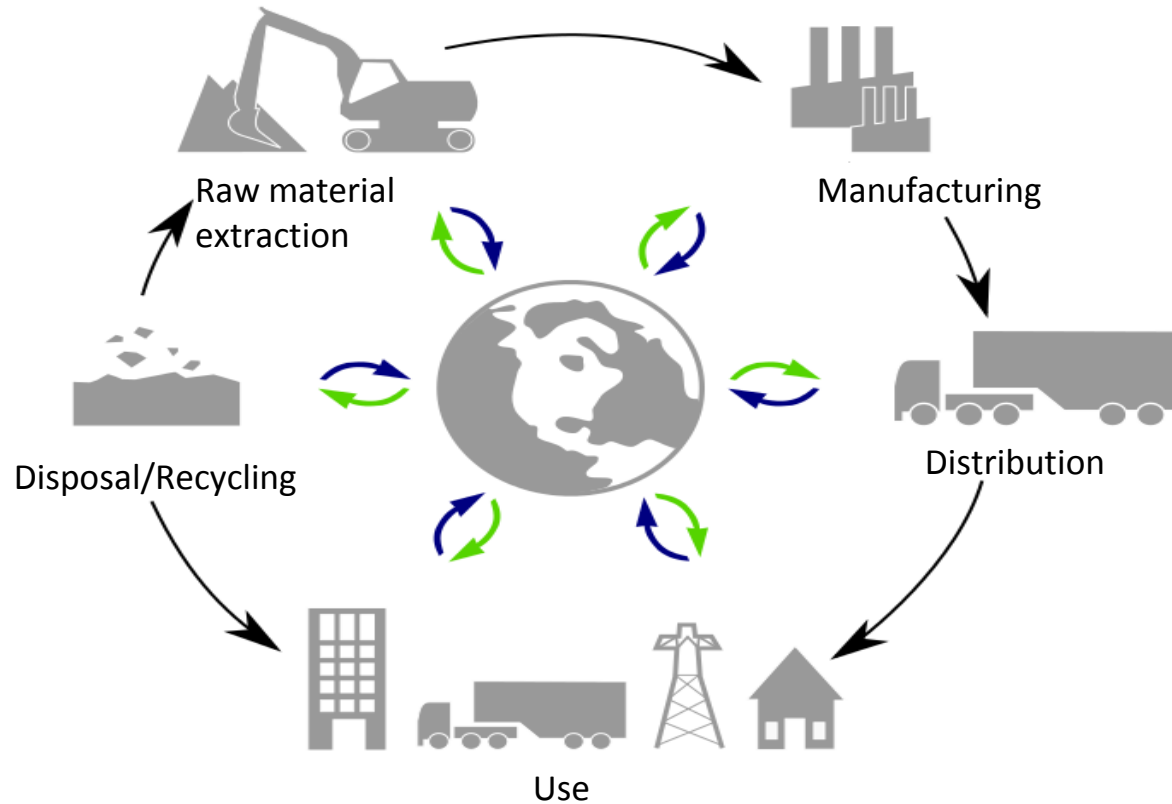
- Who are the pertinent stakeholders?
- What are their needs and expectations?
- What needs or expectations become requirements for the organization?



Understanding and integrating stakeholders views



LCA PERSPECTIVE



Life cycle assessment (LCA) is a methodology used to evaluate the environmental impacts associated with a product or service from cradle to grave.

Tool for an indicative life cycle analysis

Purpose of this qualitative analysis is to identify areas with possible significant potential for improvement within the life cycle of a product and its design



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Template for an indicative life cycle analysis

		PRODUCT LIFE CYCLE PHASES					OVERALL DESIGN
		Pre-manufacturing (sourcing of materials)	Manufacturing	Distribution	Use	End-of-life	
F L O W S	Materials (as natural resources and waste)	Aspects					
		Opportunities for improvement					
	Energy	Aspects					
		Opportunities for improvement					
	Water (as water intake and waste water)	Aspects					
		Opportunities for improvement					
I	Social impacts (including impact on health and safety of people or impacts to the local community etc.)	Aspects					
		Opportunities for improvement					

Inspired by EDIT Value tool / PRESOURCE



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Example: CARPET PRODUCER

Example: CARPET PRODUCER		PRODUCT LIFE CYCLE PHASES					OVERALL DESIGN
		Pre-manufacturing (sourcing of materials)	Manufacturing	Distribution	Use	End-of-life	
F L O W S	Materials (as natural resources and waste)	Aspects					
		Non renewable resources	Waste		Chemicals for cleaning	Waste	Linear system, wasting resources
		Opportunities for improvement					
		Shift to recycled raw materials	Recycling of production scraps		Instructions for cleaning	Set up of a take back scheme	Product – service system (INTERFACE)
	Energy	Aspects					
		Energy use and air emissions	Energy use and emissions	Energy use in transport	Energy for cleaning		
		Opportunities for improvement					
		Shift to recycled raw materials	EE programme	Optimisation of logistics	Instructions for cleaning		
	Water (as water intake and waste water)	Aspects					
		Opportunities for improvement					
Social impacts (including impact on health and safety of people or impacts to the local community etc.)	Aspects						
	Impact of extraction on local communities	Health and safety risks		Indoor health risks (VOCs, toxic chemicals, allergens)			
	Opportunities for improvement						
	Shift to recycled raw materials	phasing out harmful subst.		Instructions for use/cleaning			

Policy implementation

Principle: To apply RE principles if technically and economically feasible



Objective: Reduce energy consumption by 5% by 12/2019



Measure: Preventive maintenance program of production machinery



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Policy use

Internal use

Management

- RE gets strategic relevance
- Commitment to RE
- Provides needed resources

Employees

- Informed about RE objectives
- Know that management supports RE

External use

Communication of policy to:

- Clients
- Suppliers
- Authorities
- Neighbours
- Media
- NGOs
-

Linkages with EMS

EMS
Not in place

The RECP policy statement shall be drafted in line with the environmental/energy policy requirements of the ISO standards

EMS
In place

Update existing policies to include a clear commitment to resource efficiency and energy performance objectives to enhance the company's environmental performance.



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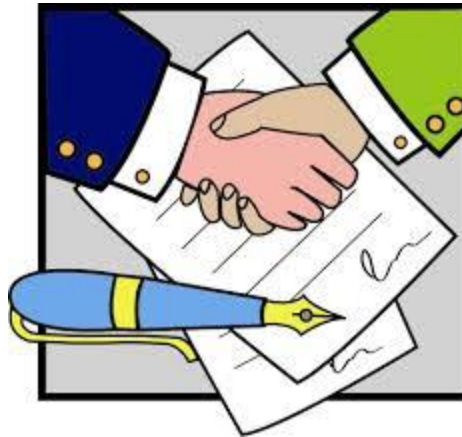
Highlights

- Strong top management commitment and engagement
- Integration of company vision and values as well as stakeholders expectations
- Clear reference to resource efficiency, cleaner production and energy efficiency objectives
- Internal and external communication of the policy statement
- Periodic review for ensuring pertinence and implementation.
- Sometimes it can be difficult to convince top management to formally introduce RECP into the company's policy at this early stage. In these cases, it can be more effective to do so by the end of the TEST planning phase



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Thank YOU for your Attention



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