
Roadmap for Scaling up Resource Efficiency

Tunisia

English Edition



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This document provides a brief description of the roadmap for scaling up Resource Efficient and Cleaner Production (RECP) in industry in Tunisia based on the experience of the UNIDO MED TEST II component implemented as part of the SwitchMed Program¹.

The roadmap was developed between March and November 2017 through a series of bilateral consultations, which were conducted with the support of the UNIDO MED TEST II project and in coordination with TEST team leader Rachid Nafti. These consultations were held to build active participation and contribution from the following key stakeholders: Focal points of Ministry of Industry and Ministry of Environment, business federations for leather, textile, agro-food, chemical, mechanical and electrical industry, chambers of commerce and industry, consumers defense organization, Industrial Upgrading and Modernization Office, Agency for Industry Promotion and Innovation, Environmental Protection Agency, Waste Water Authority, Occupational Health and Safety Institute and Energy Efficiency Agency.

The study of scaling up RECP in Tunisia constitutes the final stage of implementation of the UNIDO MED TEST II project in a group of Tunisian companies operating in different industrial sectors. It marks the transition from a pilot action to an activity that can grow in time and space to be mainstreamed in industry and to become in the long run a building block of circular economy in Tunisia.

The objective of the scaling up study is to provide an answer to the question: How can the demonstration activities carried out under the UNIDO MED TEST II project be maintained after the end of the SwitchMed program? Or, in other words, how can we capitalize on the achievements of the project and sustain the implementation of RECP in the industrial sector with the country's own resources?

This study proposes a roadmap to guide the sustainability of RECP strategies and approaches in the Tunisian industry.

¹ For more information: switchmed.eu.

ANME	National Agency for Energy Efficiency	NSSD	National Sustainable
ANPE	National Agency for Environment Protection	SCP NAP	Development Strategy
BMN	Bureau de Mise à Niveau	RECP	National Sustainable Consumption and Production Action Plan
CTS	Sectoral Technical Centers	SP	Resource Efficient and Cleaner Production
CP	Cleaner Production	TEST	Sustainable production
DEA	Detailed Environmental Assessment	UNIDO	Transfer of Environmentally Sound Technology
FODEP	Depollution Fund	VA	United Nations Industrial Development Organization
FP	SwitchMed Focal Point		Voluntary Agreement
FTE	Energy Transition Fund		
MoE&LG	Ministry of Environment and Local Government		
Mol&SME	Ministry of Industry and Small & Medium-sized Enterprises		

1. General framework for scaling up Resource Efficient and Cleaner Production

The transition to circular economy is becoming a central issue in sustainable development strategies at international, regional and national level. To this end, the United Nations 2030 Agenda for Sustainable Development² urges member countries to ensure sustainable consumption and production patterns for prompting resource and energy efficiency (objective 12).

At the regional level, the SwitchMed program funded by the European Union is designed and implemented to facilitate the transition to Sustainable Consumption and Production (SCP) patterns in the Southern Mediterranean region.

At the national level, Tunisia's commitment to sustainable development is realized through the adoption of a national strategy³ (NSSD) and the development of an action plan for sustainable consumption and production patterns (SCP NAP)⁴. In addition, the new investment law of 2016 encourages investments in sustainable production by providing financial incentives called sustainable development allowance⁵.

In the same spirit, the policy study carried out under the UNIDO MED TEST II project - based on a review of the instruments of environmental policy and support for sustainable production⁶ - made recommendations for the promotion of sustainable production in Tunisian industry through the development and strengthening of regulatory, economic, voluntary and communication instruments.

All these converging strategic orientations form the basis of the scaling up roadmap.

However, despite the relatively favorable institutional framework for SCP, the situation on the ground is still subdued regarding the uptake and generalization of sustainable production modes in industry and it is often limited to the implementation of pilot projects, justifying the need for a scaling up roadmap.



2. Development of MED TEST II roadmap for scaling up

Vision

The scaling up roadmap aims to trigger a snowball effect for further expanding the concept of Resource Efficient and Cleaner Production (RECP) in industry, leading to increased productivity, less negative impacts on the environment and the achievement of an inclusive and sustainable industrial development in the long run.

Objectives of the roadmap

The roadmap identifies areas of intervention at different levels for the development of a market for sustainable products and services in Tunisia. The priority objectives of the roadmap revolve around the following points:

- Improvement of the policy environment supporting the promotion of sustainable production.
- Stimulating supply and demand for sustainable production.
- Capacity building for service providers and support services for industrial enterprises.
- Mobilization of resources necessary for the implementation of sustainable production activities.

Methodology for developing the roadmap

The process of developing the roadmap adopted a participative approach and was piloted by the UNIDO MED TEST II project team in consultation with stakeholders and with input from national focal points. The methodology adopted was inspired by the conceptual framework of scaling up developed for this purpose in a "Green Paper"¹⁷ which advocates applying the notion of "leverage point" where a slight change can lead to great changes in the system.

The guiding principles built in the methodology are based on the capitalization of the successful results of UNIDO MED TEST II project, the implication of key stakeholders (including the ministries of industry and environment, business industry federations, environmental agency, sectoral industry technical organizations ...) and the coherence and complementarity with national strategies for industry and sustainable development. The process of consultation has culminated with the organization of a round table with all stakeholders for the validation of the scaling up roadmap.

Axis of intervention

To scale up, the roadmap proposes to act on the factors influencing the demand and offer of SP services, by focusing on the following axis:

- Development of a policy environment to stimulate the demand for RECP services by campaigning (lobbying) key policy stakeholders, financial institutions and/or local government stakeholders to reform the political instruments (economic, financial, voluntary and communication instruments for RECP).
- Stimulate the demand for RECP services by the industrial sector by launching awareness-raising campaigns, seminars, the dissemination of positive results of UNIDO MED TEST II and the dissemination of information through the media, prospecting for new Clients for providing SP services, etc.
- Capacity-building and improvement of RECP services, through training and qualification programs for service providers able to offer RECP services / tools responding to the expectations and needs of the country's industry.

Leading the implementation of the roadmap

At the end of the analysis for the identification of leverage points and the extensive consultations with the key stakeholders, the following roadmap is developed. It describes the organization of the work, identifies the specific activities to be carried out and sets the time horizon for its implementation and the resources required for the implementation of the activities.

Considering the skills and experience acquired in the field of RECP as current service providers within the framework of the UNIDO MED TEST II project, the sectoral technical centers will be best suited for leading the implementation of the roadmap. They will have to play an important role in mobilizing and cooperating effectively with key stakeholders consisting of policy makers, members of the public administration, funding institutions and target group associations.

² Agenda 2030 of the United Nations for Sustainable Development.

³ National Sustainable Development Strategy, 2014-2020, Ministry of Equipment, Spatial Planning and Sustainable Development.

⁴ National SCP Action Plan, 2016-2025, Ministry of the Environment and Sustainable Development.

⁵ Investment law number 71 dated 30 September 2016

⁶ Recommendations on policy instruments for the promotion of sustainable production, Gazbar, July 2016.

⁷ Green Paper on Scaling up of MED TEST II activities, Joyce Miller and Eli De Friend, CAPRESE Sarl, March 2016.





Table 1 *Overview of the Roadmap*

Axis	Specific activity	Institutional support	Resource	Timeline ^a	Milestone/ Indicator
1. Creating an enabling policy environment for RECP	Institutionalization of detailed environmental diagnosis (DEA)	Ministry responsible for the Environment; Ministry responsible for the Industry, Environmental Agency (ANPE), National Cleaner Production center (CITET), Sectoral Technical Centers (CTS).	FODEP Vocational training tax (FTE)	ST (2018)	Draft regulation + at least 1 pilot per industrial sector
	Establishment of voluntary agreements (VA)	Ministry responsible for the Environment; Ministry responsible for the Industry, Private Business organization (UTICA), Chambers of commerce and industry; Businesses, Civil society.	Self-financing and/or grants	ST (2018)	At least two signed VAs per year
	Strengthening the preventive approach through voluntary environmental reporting	Ministry responsible for the Environment, Businesses, CTS.	Self-financing	ST (2018)	Communication of voluntary Environmental Declaration
	Requirement for company self-monitoring as a condition for access to Environmental Fund (FODEP).	Ministry responsible for the Environment; ANPE	Self-financing	ST (2018)	Revision of criteria for access to FODEP funding
	Integrate RECP criteria in the procedure for granting the allowance under the new sustainable development allowance scheme created by the investment law (70-2016)	Ministries of industry, environment and finance Bureau de Mise à Niveau (BMN) Agency of energy efficiency (ANME); CTS	Self-financing	ST (2018)	Specific procedure approved by COFIL
	Interest rate subsidies for loans used to finance environmentally sound technologies	Ministry responsible for Finances, Centrale bank, Commercial Banks.	Banking sector	ST (2018)	Number of loans granted at preferential rates

^aST: short term (<1 year); MT: mid-term (>1 year and < 3 years); LT: long term (> 3 years)

Axis	Specific activity	Institutional support	Resource	Timeline ^a	Milestone/ Indicator
2. Engaging the industrial sector for RECP services	Marketing campaigns on RECP with industrialists in the regions Communication and outreach about the UNIDO MED TEST II success stories within industrial enterprises	CTS; CITET; Professional Federations; Agency for Export promotion (CEPEX)	Sponsors	ST (2018)	Communication plan Reaching a target of 800 industrialists
	Creation of a database on eco-innovative and sustainable technologies	National and international institutions: Research and Development centers, Engineering Institutes, Technology Support Centers.	Self-financing	ST (2018)	Functional database
3. Developing skills and services in RECP	Strengthening and developing the skills on RECP through training of support structures	Business support structure; Consultants/ R&D Centers	Vocational training tax (TFP)	ST (2018)	Number of consultants per support structure (100 people)
	Integration of TEST modules in the university curriculum (industrial engineering, process, chemistry, etc.)	Engineering schools and Universities	Self-financing	MT (2019)	Number of integrated TEST modules
	Tailoring TEST training toolkit to local context	CTS; Consultants	Self-financing, CTS	ST (2018)	RECP training modules available
	Creating a local guide on the TEST approach	CTS, Academia, consultants	CTS	ST (2018)	Local guide established

The development of the scaling up roadmap built on the positive evaluation of the UNIDO MED TEST II project for mainstreaming Resource Efficient and Cleaner Production (RECP) in the sectors of textile, leather and shoes, chemical, agro-food, mechanical and electrical, a wide consultation with key stakeholders and the need to ensure coherence and complementarity with national strategies and international orientations towards sustainable development and circular economy.

The expected outcomes of the implementation of the roadmap should contribute to mainstreaming and sustaining RECP in Tunisian industrial enterprises as a major contribution in the transition toward green economy.

The successful implementation of the roadmap is based on the following factors:

- Balancing regulatory-based environmental policy (command-and-control approach) with voluntary approaches geared towards sustainable production and strengthening business competitiveness.
- Increased awareness of industrialists about the transition to green industry, the economy of resources and prevention of pollution.
- The adjustment of economic and financial instruments towards the promotion of a green industry and sustainable production in particular.
- The availability of national capacity to support companies in the sustainable production process.
- The capacity to apply technical tools of RECP (TEST guide) adapted to the national context.