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Decoupling economic growth from environmental degradation in Lebanon: Moving from pollution abatement towards SCP

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SCP as a basis for life cycle stages of production and consumption

- **Producers of products & services**
  - **Extraction of natural resources**: Focus on: sustainable extraction, use and management of raw materials.
  - **Manufacturing (production processes)**: Focus on: cleaner and resource-efficient production.
  - **Provision of goods & services**: Focus on: design, supply and/or sale of more sustainable products and services.

- **Public & private consumers**
  - **Acquisition & use (lifestyles)**: Focus on: informing and guiding households and public consumers towards sustainable patterns.
  - **End-of-useful-life management**: Focus on: waste prevention and sustainable waste management to achieve close-loop production models.
Systemic and legal framework for SCP in Lebanon

- 1993. Establishment of the Ministry of Environment
- 2001. Emission Limit Values for air pollutants and wastewater discharge
- 2002. Environment Protection Law
- 2012. Environmental Impact Assessment Decree
- 2012. Environmental Compliance of industrial and classified establishments
- 2015. Deadlines for compliance set between 2018 and 2020
- 2017. Law for the right of access to information
- 2018. Integrated Solid Waste Management Law
- 2018. Air Quality Protection Law
Policy and planning for SCP

- 2010. National Water Sector Strategy
- 2010. Policy Paper for the Electricity Sector
- 2011. Lebanon’s Sustainable Public Procurement Action Plan
- 2015. SCP Action Plan for the Industrial Sector
Changing community behavior and adopting environmentally-friendly practices

- Key factors towards the adoption of environmental values:
  1. Top-level management or prominent citizens aware of international thinking about environmental management
  2. Social organizations or local governments that wish to link environmental management to employment generation or the improvement of status of workers
  3. NGO experiments in environmental management responding to internationally-aired environmental values
Changing community behavior and adopting environmentally-friendly practices

- Lebanese youth holds are of the most educated populations in the Arab region with over 41% holding a university degree.
- Lebanese youth shows important language proficiency which indicates a substantial amount of cultural variation and diversity.
- Value hierarchies indicate that Lebanese youth reflects a clear preference for Arab emic values (honor and hospitality) closely followed by values of self-transcendence (benevolence and universalism), which capture strong concern with the well-being of the community and the environment.
2010. Environment Fund for Lebanon

Abatement of Industrial Wastewater Pollution

6 Projects
EFL Funding: 200,000 €
SIDEM: 555,000 €

Waste Water quantity:
1,050 m³/day
Physical & Chemical treatment

Main Pollutants:
pH, sulphate, aluminium, zinc, hydrocarbons
Waste Water quantity: 150 m³/ day
Closed Circuit water cooling system

Main Pollutants:
Oil, grease and sulfate contaminants

EFL Funding: 200,000 €
Pulper S.A.L.: 250,000 €
2013. Policy paper and action plan for industrial wastewater management
2014. Lebanon Environmental Pollution Abatement Project

- Provides free technical assistance to industries to evaluate their environmental status and propose actions to improve their overall environmental performance in line with the national regulations.

- A financial mechanism to support industries to execute the recommended environmental actions through concessional loans from commercial banks which are close to 0% interest rate.
Transition towards Sustainable Development in Lebanon

- 2015. Solid Waste Crisis in Lebanon mobilized NGOs and local communities to engage in environmental action.
- 2015. Lebanon initiated the National Sustainable Development Strategy but did not complete it.
- 2018. Lebanon Economic Vision: defining the sectors for economic growth with limited focus on sustainable development.
- France established a Roadmap for ecological transition in 2012 and developed the National strategy for ecological transition & SD in 2015.
Thank you for your attention