WP4: Promote Efficient Appliances & Develop the Market

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The Appliances Scrapping Facts and Implementation in Lebanon

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Key Findings from MeetMED-I

- Electricity consumption trends from the MeetMED-I project shows that **Residential sector consumes ~42%** of the total end electricity use in the SEMCs.

- **Appliances contribute to 70% ~ 80%** of the total residential consumption in the ESM region.

- **Comparative Labelling** is the predominant in the SEM region while **Mandatory MEPS** are the most applied tool in use by the governments.

- However there is variance in **maturity of implementation** between different countries.

- Key challenges to the promotion of efficient appliances include **need for supporting policies & guidelines, Implementation of MVE and Public Awareness**
MEPS Promotion and Labelling Process for Appliances with a Special Focus on Air-Conditioning

- **Objectives**
  This activity aims at informing policy makers and stakeholders involved in energy efficiency field about the national and regional energy labelling schemes and efficiency standard programs. This activity also attempts to address the current challenges facing the enforcement of MEPS and labeling schemes.

- **Expected outputs and timeline**
  
  - Manual procedure for MEPS Implementation
  - Regional report on MEPS/Label's implementation with a focus on air conditioning
  - Two national MEPS program reports

- **Targeted Countries**
  - Egypt
  - Lebanon
  - Libya
  - Morocco
  - Palestine
  - Tunisia
**Key Objectives**

Aims to enriching experts’ and public bodies’ officials knowledge in the energy efficiency of appliances and their implementation & Increase Visibility of Efficient appliances in addition to the circular economy to enhance the efficient energy in the relevant countries. This is through **regional training**, **study visits** and **dedicated tools** for dissemination as "brochures" on topics related to the testing centers, MEPS and labelling promotion for appliances with a special focus on air-conditioning. and the fact sheets for 4 countries.

**Timeline Plan**

- Q2 2022 → 2023
- Q3 2021 → Q3 2022
- Q3 2021 → Q4 2023

25 Monthly (~ 2.5yrs)

**List of Activities**

- **4.2.1. Organize Study visits**
- **4.2.2. Ensure visibility and deployment of several guidelines and tools**
- **4.2.3. Organize dedicated Webinars / trainings in presence**

**Targeted Countries:** Algeria, Egypt, Jordan, Lebanon, Libya, Morocco, Palestine and Tunisia
Key Deliverables & Expected Outputs:

- Build professional expertise of EE in high-performance appliances at the involved countries
- Exchange the knowledge related to the regional testing centres and its main roles
- Raise the awareness of the households in choosing the best equipment
- Promoting labelling and MEPS systems from regional perspectives
- Conduct obvious guidelines for promoting of high-performance equipment in national levels
- Exchange knowledge related to the Implementation of appliances scrapping campaigns and related awareness campaigns
- Enhance the touristic value chain in appliances
WP4.1.1 status

• Data collection and analysis regarding polices and legislations regulating appliances collection, dismantling, and safe disposal (8 countries).
• Fact-sheets in the design phase for each country reflecting the status of Appliances scrapping in the concerned countries.
Consultation missions

Morocco

- The mission objective was to meet the relevant stakeholders and key players at the Moroccan market to fill the gaps related to the scrapping. During the mission we focused on collecting the data related to the main points below:
  - Existing programs for appliances scrapping.
  - Types and amounts of appliances.
  - Existing market for appliances scrapping and recycling.
  - Existing facilities dealing with appliances.
  - Types of materials recycled and the potentiality of exporting.
Consultation missions

Egypt

- the mission was conducted in 2023 at one of the key players of the scrapping factors in Egypt.
- 15 companies have been identities dealing with E-waste scrapping.
- Consultation mission will be arranged Identified the main challenges in barriers to enter the market and the main legislation needs to enhance the process.

<table>
<thead>
<tr>
<th>Company</th>
<th>Website/Contact Info</th>
<th>Type of Activity</th>
<th>Challenges Identified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Egypt's key player</td>
<td>[Website]</td>
<td>Scrapping E-waste</td>
<td>Barriers to market entry, Legislation needs</td>
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<tr>
<td>15 companies identified</td>
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*Note: The above table lists some of the companies identified during the mission.*
Consultation missions

Jordon

- Consultation conducted in Q1 2023
- Meeting with RSS, JREEF, UNDP, FES, the Ministry of Environment and E-tafkeed which is a private company concerning with the appliances
- Existing programs for appliances scrapping
- Types and amounts of appliances
- Existing market for appliances scrapping and recycling
- Existing facilities dealing with appliances
- Types of materials recycled and the potentiality of exporting
- Main barriers and challenges facing appliances scrapping
WP4.2 Status

Survey on appliances scrapping distributed, receiving 10 responses, those responses have been analyzed to conclude the main topics of the upcoming capacity building activities within WP4.

After the analysis and identifications of the gaps we started a data collection process internally covering the needs assessment for the 8 relevant countries in the appliances, scrapping and the awareness related to them.
Stakeholders mapping have been developed to all the countries including all the public, private and international organization. The stakeholders have been identified to primary, secondary and others.
## WP4.2 Status

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<th>Action</th>
<th>Description</th>
<th>Status</th>
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| • Conducting the first online training on Equipment Scrapping to be held on the **29th of Feb 2023** | ✓ Regional initiatives for scrapping and it’s technicalities  
✓ The regulatory frameworks and main pillars for enhancing it  
✓ Analyzing the countries current situation | **2023** |
| • Preparing for the visualization tool on appliances | ✓ Videos have been created based on the surveys on the below topics  
✓ Human behavior, labelling system for home appliances and the AC technologies including inverter | **2022** |
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<td>• Preparing the study tours on both Scrapping and appliances in Madrid in cooperation with CEIS and UNE</td>
<td>✓ To exchanging in formation and enhance the capabilities among the relevant countries and the existing technologies in Spain/ Europe</td>
<td>2023</td>
</tr>
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Next Steps & Collaboration with stakeholders

**Next Steps:**

- Stakeholders engagement in consultation, validation and participation
- Dissemination of the fact sheets, videos and the technical reports
- Participate in the meetMED week in Tunisia

**Key Stakeholders:**

- Ministries
- Standardization & quality institutions
- Research institutions
- International-related organization
- Statistics centers
- EE and regulatory entities
Challenges & Opportunities

Challenges:

1. Lack of BATs in local markets & at good prices
2. Lack of Market Surveillance & MRV programs in most countries.

Opportunities:

1. Increased Political Support upon the approach of SDG targets deadlines (2030)
2. Increased Public Awareness on the climate change issues.
3. Technological Advances help in reduce cost of efficient equipment.
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Thank You