

**LEAP
SME**



ENERGY AUDIT POLICIES
TO DRIVE ENERGY
EFFICIENCY

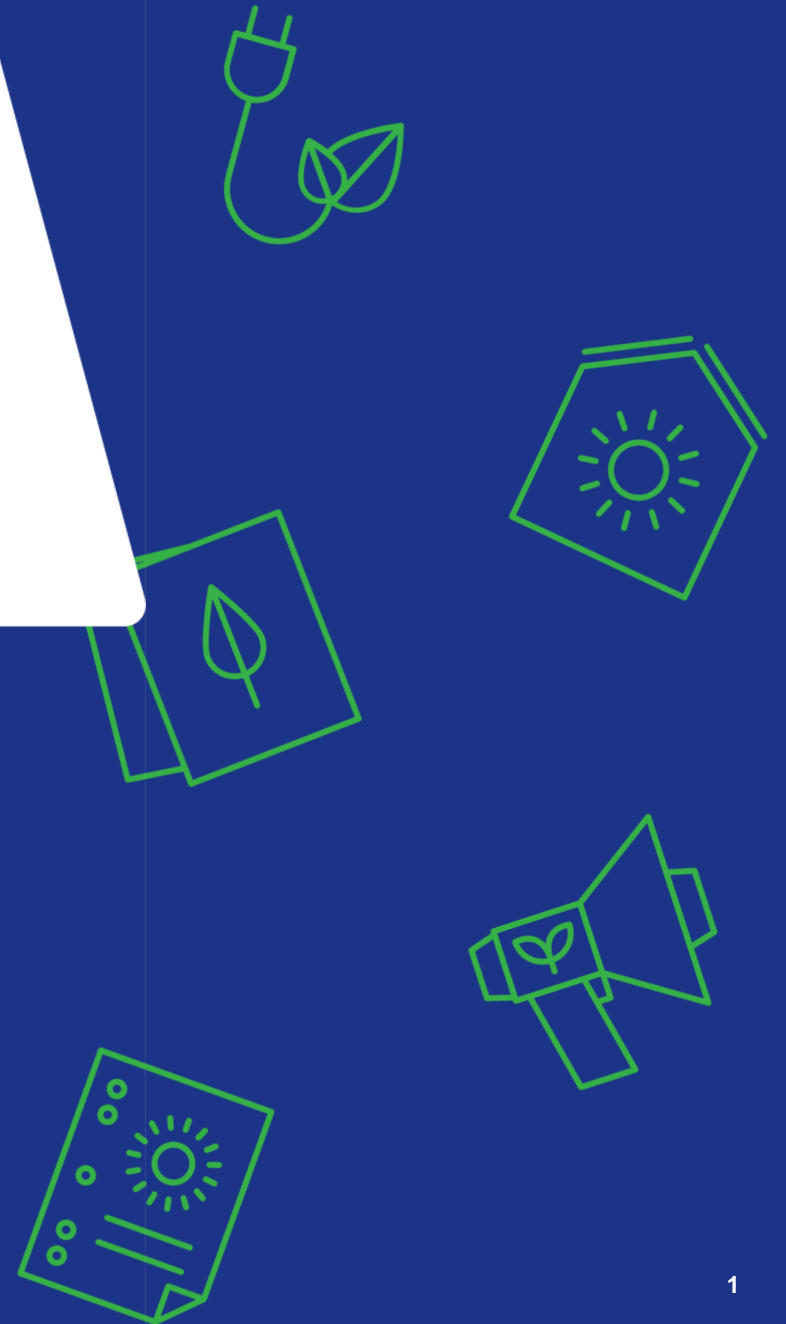
LEAP4SME 2nd Peer Learning Workshop

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Energy Auditing Policy for SMEs

- The Agency strives to promote energy auditing in SMEs.
- This is achieved through:
 - The provision of a grant scheme – which can then be used as a basis to apply for schemes to implement energy efficiency measures
 - Awareness raising and information campaigns on the benefits of energy auditing



Promotion of Energy Audits in Small and Medium Sized Enterprises

- Support scheme (grant) which encourages all SMEs to carry out energy audits
- Grant capping and categories:

| | Categories | Grant |
|------------|---|--------|
| Category 1 | Medium Sized Enterprises in the NACE Code C and I | €5,000 |
| Category 2 | Medium Sized Enterprises in all other NACE Codes | €3,000 |
| Category 3 | Small Sized Enterprises in the NACE Code C and NACE Code I subgroup 55 | €3,000 |
| Category 4 | Small Sized Enterprises in all other NACE Codes and NACE Code subgroups | €1,000 |

Promotion of Energy Audits in Small and Medium Sized Enterprises

- Eligible costs according to State Aid received:

| Received State Aid | Eligible costs |
|---|---------------------------------------|
| All SMEs receiving less than €200,000 | 100% of the eligible cost is refunded |
| Small Enterprises receiving more than €200,000 | 70% of the eligible cost is refunded |
| Medium Enterprises receiving more than €200,000 | 60% of the eligible cost is refunded |

Promotion of Energy Audits in Small and Medium Sized Enterprises

- The energy audit shall include:
 - Comprehensive data and information on energy and water consumption (in companies whose operations require large water consumption)
 - Metered data for major energy uses
 - Equipment lists and typical operating schedules for major energy uses



Water-Energy Nexus

- Traditionally, nexus was viewed from the '*water for energy*' perspective
- Highlighting the importance of hydropower, cooling water and steam for energy production.
- The increasing importance of Non-Conventional Water Resources has changed this perspective and the nexus is now also being viewed from the '*energy for water*' perspective.



Water-Energy Nexus: Maltese Context

- Malta is a water scarce country and water is a precious resource.
- Circa. 60% of potable water demand is produced using desalination which is an energy intensive process.
- Water reuse and recycling will also save energy since one is reducing the potable water demand.
- Circa. 4.3 kWh are saved for every 1m³ not produced using desalination plants.



Promotion of Energy Audits in Small and Medium Sized Enterprises: Water-Energy Nexus

- Suggested water information to include in energy audit:
 - List of processes that use water
 - Amount of water used in these processes
 - Source of water for these processes
 - Treatment of water prior/ post use
 - Discharge of water



Local Examples: Water-Energy Nexus

- A hotel was recommended to upgrade its dishwashers:
 - Improve water efficiency by 30% and energy efficiency by 12%.
- A laundry was recommended to install a wastewater treatment plant:
 - Estimated to recover and reuse 70% of wastewater;
 - Estimated to recover and reuse up to 90% of wastewater if coupled with an RO.

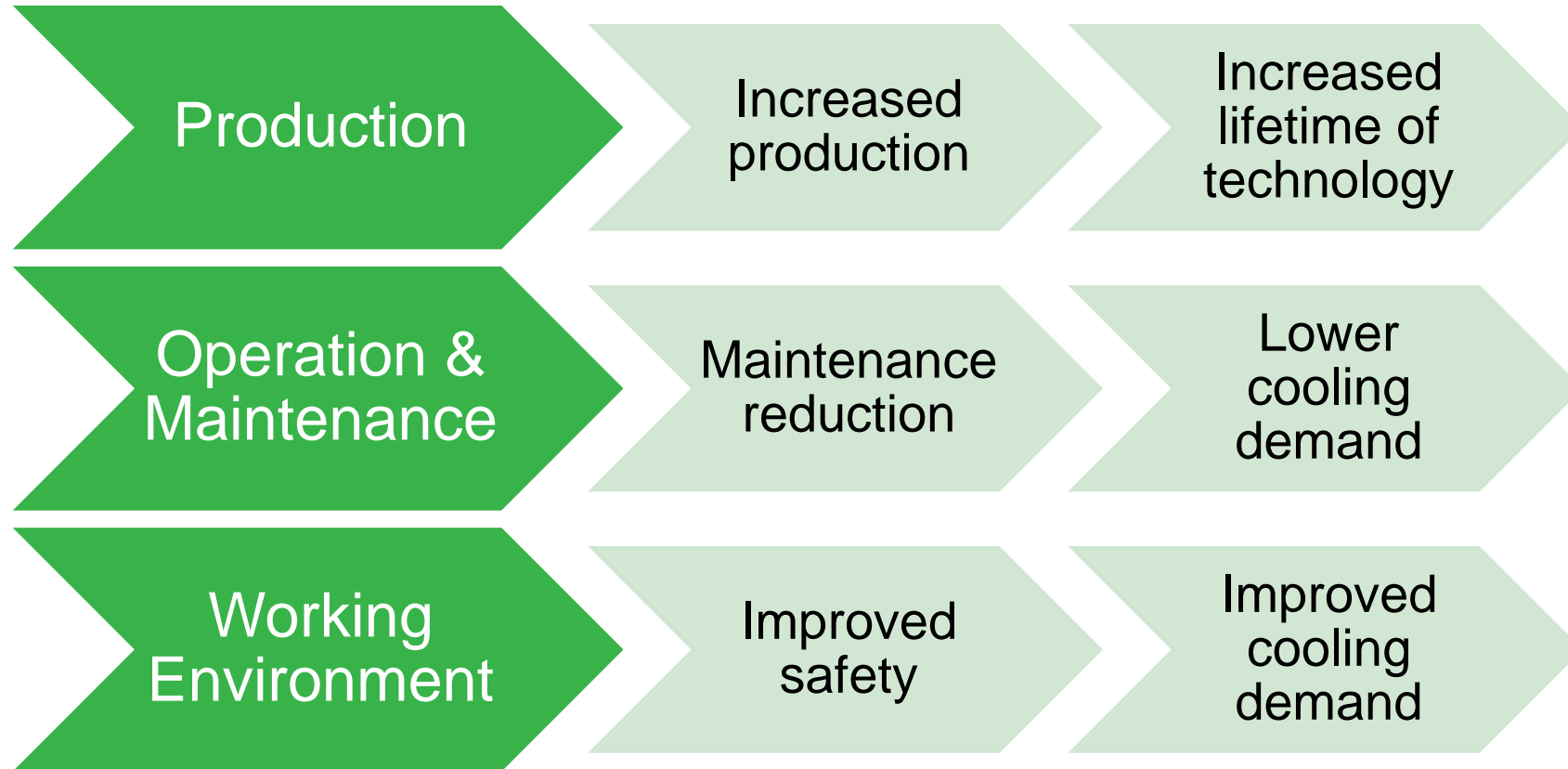


Non-Energy Benefits (NEBs)

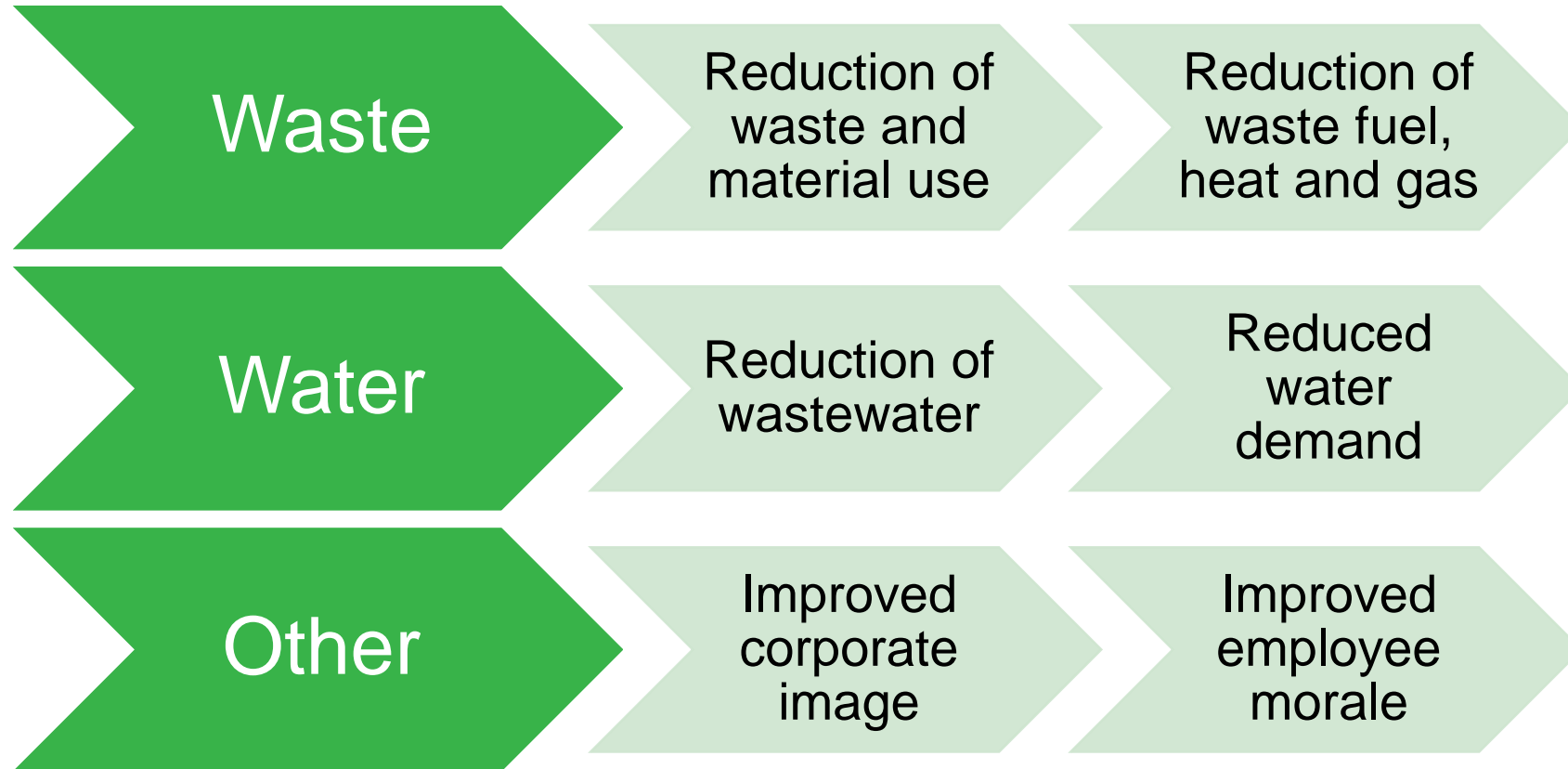
- The potential of NEBs is often neglected and this reduces the potential for continuous energy improvement and energy efficiency investments.
- If taken into consideration, NEBs have the potential to lower the energy efficiency investment payback time.
- Lower payback times may also encourage SMEs to invest more in energy efficiency measures.



Type of Non-Energy Benefits (NEBs)



Type of Non-Energy Benefits (NEBs)



Local Examples: Non-Energy Benefits

- Awareness raising among employees will result in reduced use of artificial lighting and adjustment of HVAC system settings:
 - It was estimated to achieve more than 8,000 kVAh in energy savings.
- Preventive maintenance will maintain motor performance and efficiency while also reducing equipment breakdown and repairs.



Local Examples: Non-Energy Benefits

- It was recommend to install a roof garden:
 - Roof insulation will reduce the building's heating and cooling requirements
 - Employees will work in a stimulating work environment – roof garden will provide a relaxing area for breaks and meetings



Thank you for your attention!

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