











At the end of this module you will be able to...

Identify factory level aspects of energy while referring to the framework of energy management system as per ISO50001

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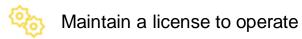
Factory level aspects to be addressed

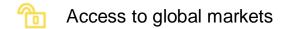
Framework and PDCA for energy management system

What to expect from energy management



What to expect from energy management



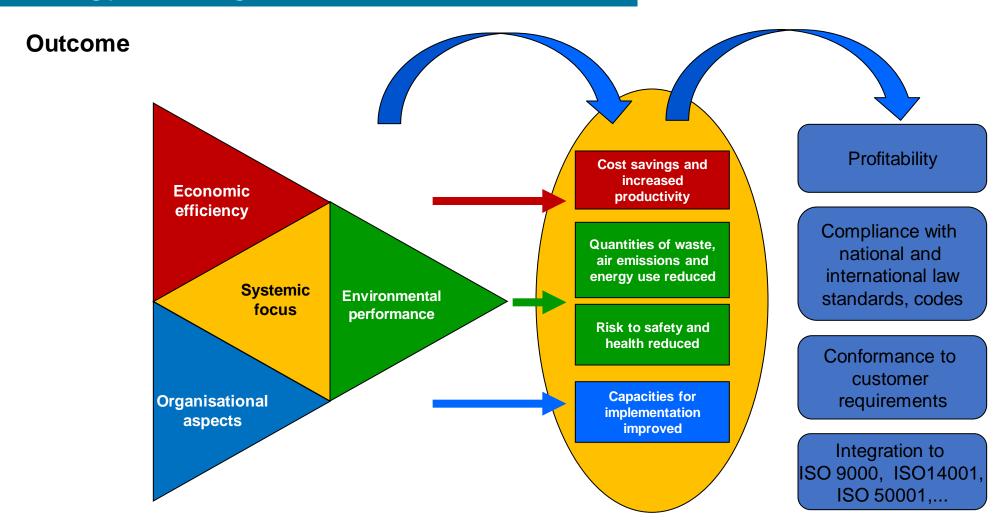


Maintain a competitive advantage

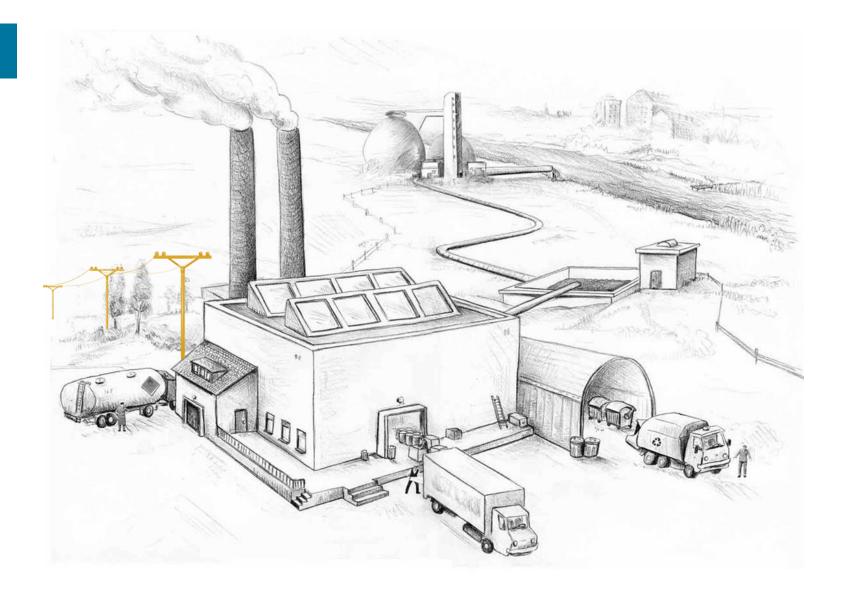
- Minimize repetitive changes to energy mix
- Reduction in cost by reducing energy wastage

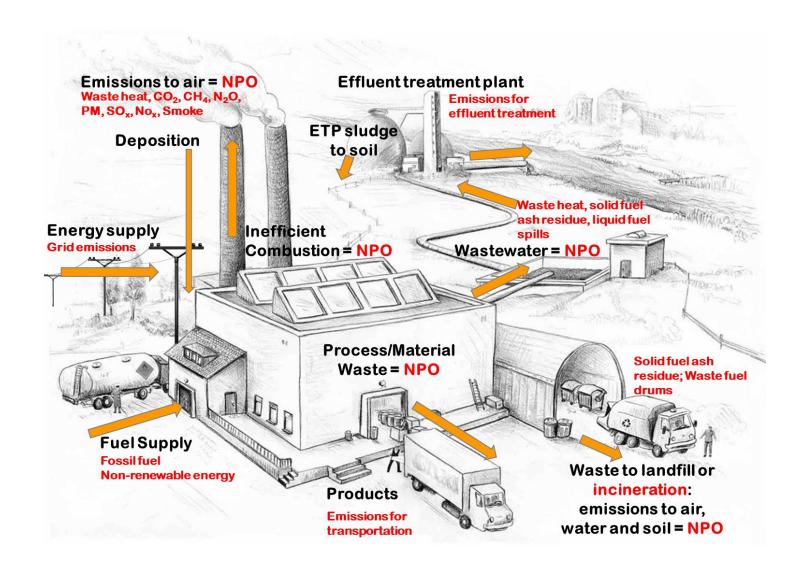
- Reduce downtime by improving energy reliability
- Stop potential losses before they become issues
- Ensure compliance with standards and customer requirements
- Traceability of energy and GHG in the processes and supply chain
- Embed energy management into organizational culture

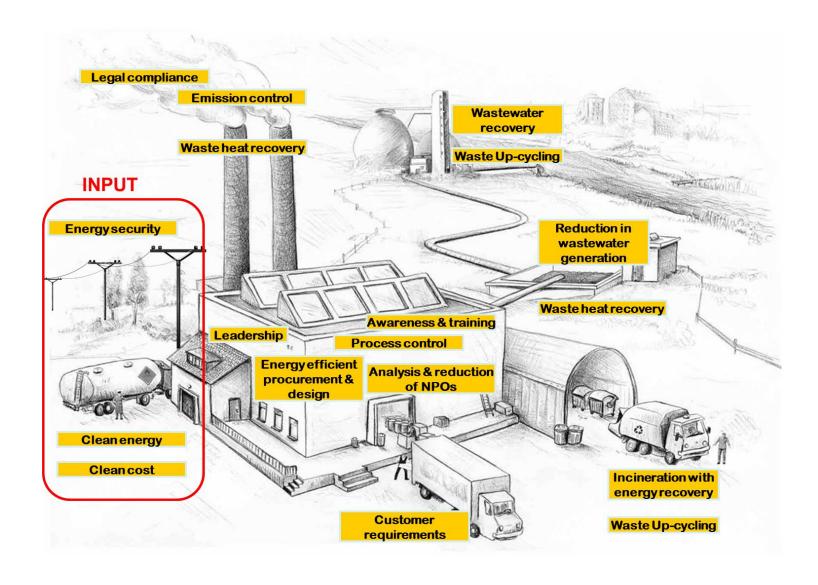
Energy management business case

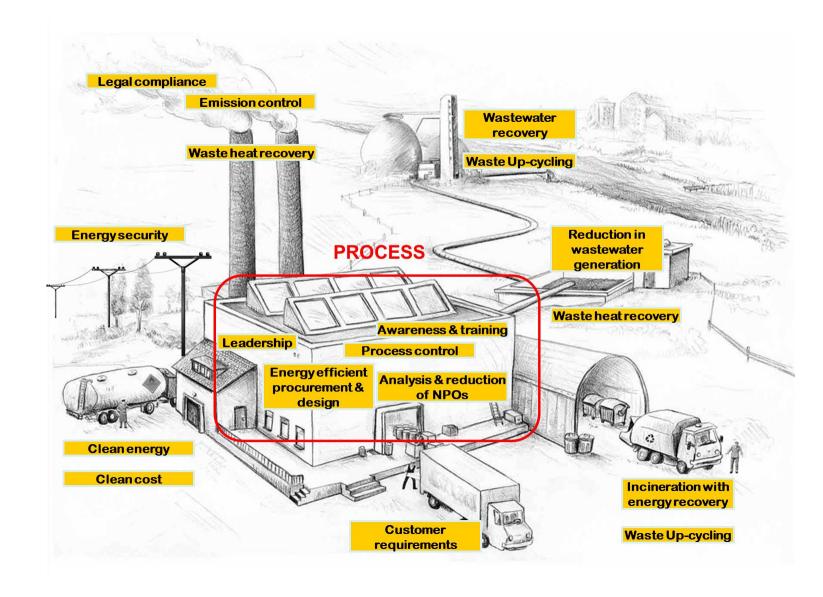


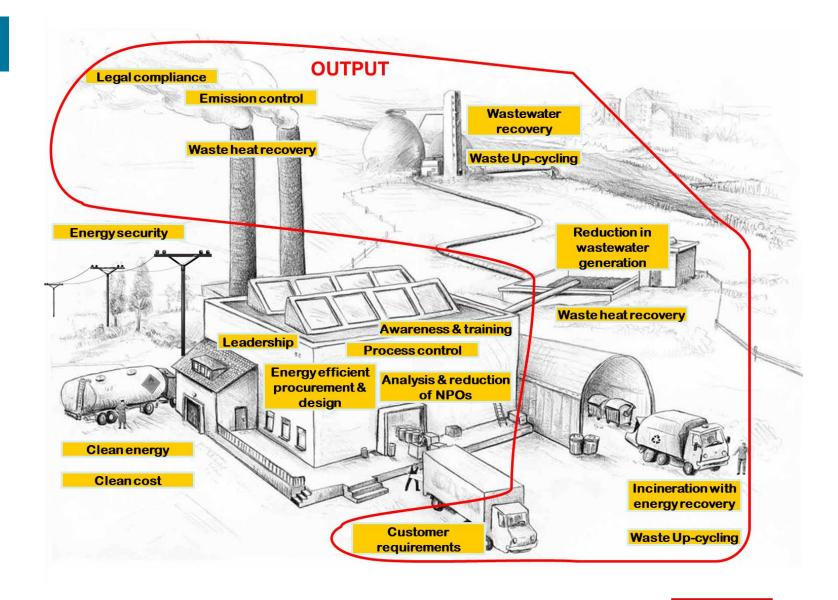
Source: 4 wins by PREMAnet e.V.



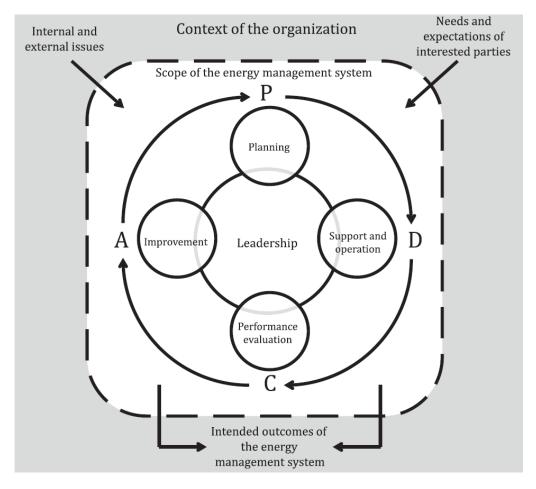






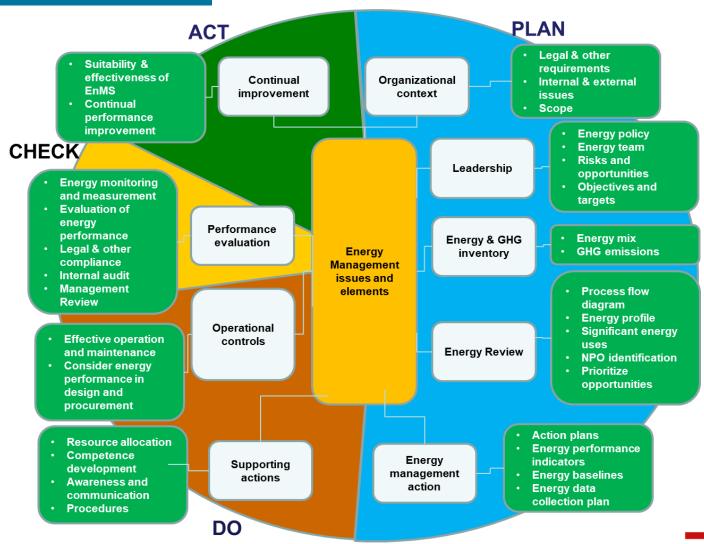


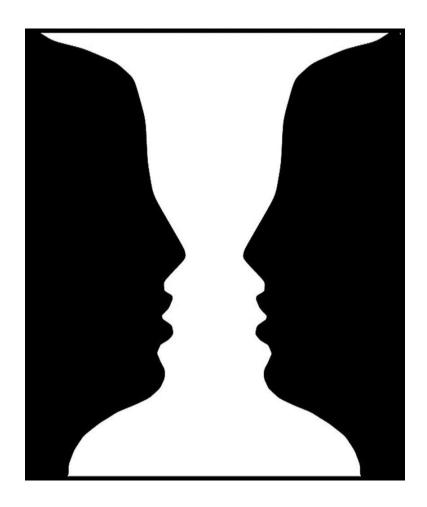
Energy Management Framework

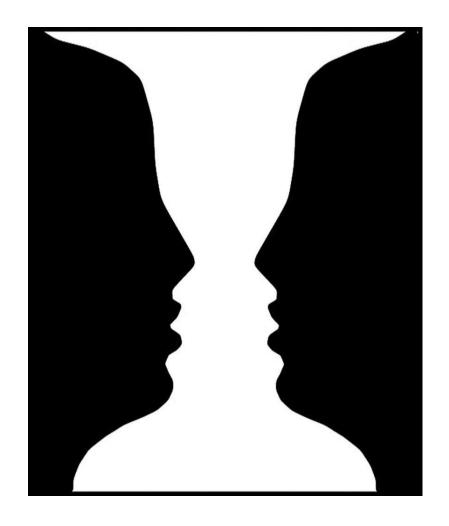


Source: ISO 50001:2018, Figure-1: Plan-Do-Check-Act Cycle

Energy Management Framework





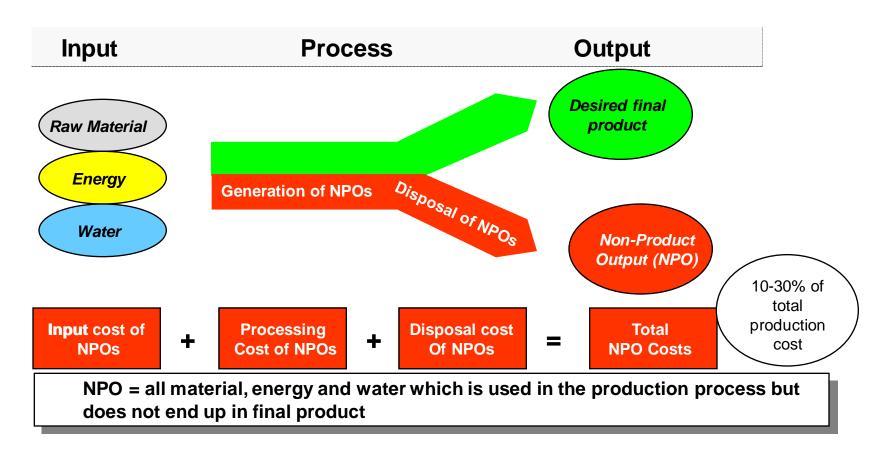


Looking at NPOs

Change your point of view

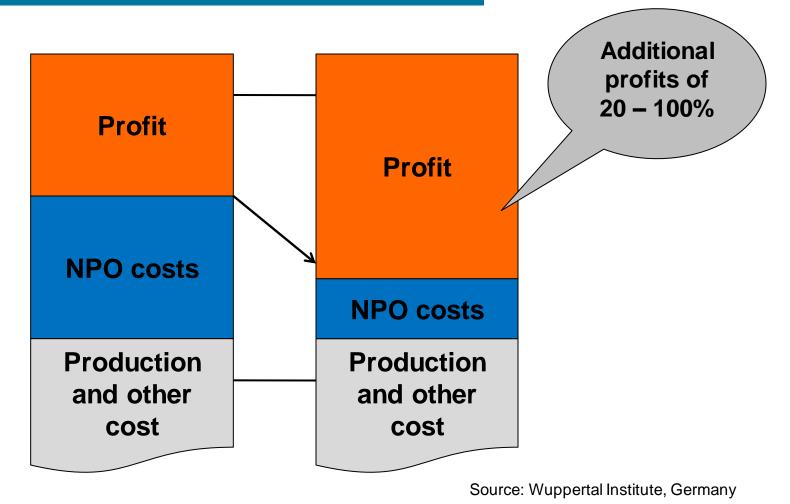
Starting points...

Non-product Outputs (NPOs) – the starting point



Source: PREMAnet e.V.

Economic benefit of addressing NPOs



Key takeaways

- It is important to take a systemic approach in addressing multiple challenges including energy cost, compliance to international, national and buyer requirements, as well as integration with other applicable standards
- Energy management is not limited to managing input energy cost, it is important to look at all aspects in Input, Process and Output of the factory
- Start with basic steps of identifying obvious NPOs in the process

Next steps

- Identify stakeholders and functions of your organization that are affected by the requirements of energy management
- Generate awareness among high-level stakeholders of your company to start building a case for energy management

