

Assignment for Module 5.1: Energy efficiency measures

Choose three (3) of the most energy-intensive equipment or areas at your factory. Create a draft action plan (following the template attached) to reduce your energy consumption and estimate the reduction potential that you could obtain!

Please follow the steps below:

1. Choose a set of energy savings measures that you feel are relevant for these three (3) areas or items of plant equipment (you may use the references provided in the 'Adidas EGPG training (page 30 - 59) and Energy saving in the textile industry' by EnerTEAM materials and/or any other sources of info of your choice).
2. Populate the template with the info obtained in 1. above.
 - a. Energy saving measure description:
 - i. Provide a brief description of the proposed energy savings measure, in terms of its technical scope and how it saves energy.
 - ii. Input energy source.
 - b. Feasibility:
 - i. Indicate the estimated energy savings.
 - ii. Indicate the magnitude emissions reductions (ERs based on the examples used).
 - iii. Input the cost savings based on the information you have researched.
 - iv. Indicate the CAPEX costs.
 - v. Indicate simple payback (simple payback can be calculated through dividing CAPEX with potential cost savings)
 - vi. Indicate whether the implementation of the measure might result in additional benefits, such as quality, output, system reliability and other additional co-benefits. If you're not sure, simply add " to be investigated."
 - c. Implementation status:
 - i. Earliest commissioning date
 - ii. Project status
 - d. Support required:
 - i. Technical support - Indicate, to the best of your knowledge, the staff you think would need to be involved to undertake energy savings implementation (e.g. using in-house experts such as your plant manager, ops manager, shift supervisor, plant engineer and operator, or hiring externals).
 - ii. Financial support - indicate the financial support needed to pursue the measure and if additional budget is required.



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3. Calculate how much energy (Column E24), CO₂ (Column F24) and cost (Column G24) can be saved through the implementation of measures that you consider to be:
 - i. zero-/low-CAPEX
 - ii. mid-CAPEX
 - iii. high-CAPEX

4. Calculate the total CAPEX (Column H24) of each of the above groups of energy savings measures (ie. total CAPEX needed to implement all the zero-/low-CAPEXmeasures).

Note: this exercise is only for illustrative purposes. Whether the savings measures considered are actually relevant or not to your factory can only be established by carrying an assessment in your plant. Moreover, the energy and cost savings and required CAPEX will also always be specific to each factory.