

Do you want to:

Get advice from sector specialists and international experts?

Reduce production costs by increasing resource efficiency?

Enhance your company's image?

Resource Efficient Cleaner Production (RECP)

What:

Allows companies to increase process efficiency while decreasing environmental impact and cost

Why:

Contributes towards economic, environmental, and social sustainability

Your gains:

- Higher profits
- Higher productivity
- Less waste generation
- Better quality of products
- Enhanced company image
- Improved competitiveness in the market place

Project Partners



Experienced in working with financial, policy, and other stakeholders for SMEs



Experienced in resource efficient cleaner production implementation in SMEs in Europe and Asia



Experienced in promoting business and macro-economic growth of member companies



Experienced in resource efficient cleaner production implementation in various sectors in Sri Lanka



Experienced in resource efficient cleaner production implementation in various sectors in Nepal



Experienced in resource efficient cleaner production implementation in various sectors in Asia



Experience in clean technology implementation in Asia and Africa



Interested to know more?

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METABUILD

Resource-Efficient Supply Chain for Metal Products in Buildings Sector in South Asia



An Opportunity to Save Money—Get More from Less

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Save money while you save the environment!

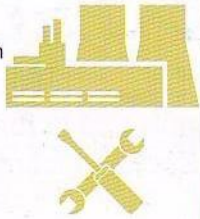


switchasia

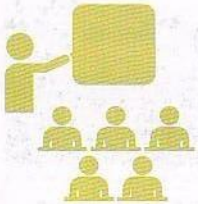


Direct SME Support

RECP Implementation



RECP Training



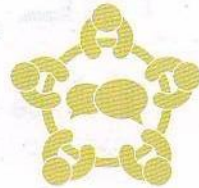
RECP Finance Linkages



Technology Fair



Customer Roundtables



Policy Dialogues



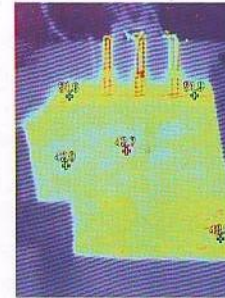
Discussion with Stakeholders

Surface Insulation of Hot Tanks by Using Polypropylene (PP) Balls

Before

The company's degreasing and anodic cleaning tanks of the automatic barrel line did not have a surface cover. This was problematic in various ways:

- There were heat and evaporation losses from the tanks' surfaces.
- It was difficult to attain the operating temperature after a cold start-up.



After

PP balls were used for covering the tanks. Benefits associated with this approach include:

- The PP balls covering the tank's surface provides insulation to the automatic barrel line.
- Heat and evaporation losses are reduced due to covering of the surface.
- The cold start-up time is reduced to two hours.

Cost: € 107 for the PP balls Annual Savings: € 1,296 from electricity Payback: 1.2 months



Efficient Gun for Painting

Before

- High use of energy (high pressure compressed air) for spray painting.
- High wastage of paint.
- High chemical consumption (use of thinner).



After

- Transfer efficiency improved by implementing High Volume Low Pressure (HVLP) gun.
- Low energy, chemical, water consumption.
- Reduced wastage of paint.
- Reduced requirement of booth cleaning.
- Improved working environment due to reduced volatile organic compounds in the air.

Cost: € 160 Annual Savings: € 2,133 Payback: 0.9 month

Optimising Door Opening of Baking Oven

Before

The company operated a baking oven which did not allow for the control of the oven's door opening. The following problems were associated with uncontrolled oven door opening:

- Oven doors were forced to open widely when panels entering the oven were not aligned properly (since the panels were being held with single hooks).
- Faulty insulation led to hot spots.



After

The oven door opening depended on the shape of the work piece entering the oven. Therefore the intervention suggested was aligning the panels properly by fixing them with two hooks instead of one. This led to a significant improvement in heat retention within the oven.



Cost: Nil Annual Savings: € 2,452 from energy savings Payback: Immediate

Impact: Reduction in resource use and cost savings

Case Studies from India

Recycling of Used Resin Coated Sand

Before

For producing the brass parts, resin coated sand is required for making the cores. Earlier the sand was disposed of and each core was produced with new sand.



After

The suggested intervention involved reusing some of the used resin coated sand. Following this, the company mixed the used sand with new sand for producing the cores. This resulted in 10% reduction in use of new sand.

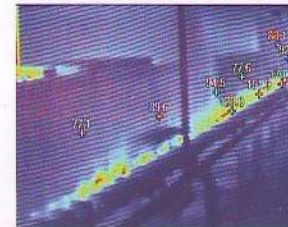
Cost: Nil Annual Savings: € 3,933 from reduced consumption of sand Payback: Immediate



Fuel Savings through Furnace Insulation

Before

The company operated a furnace for its steel re-rolling process. There were various hotspots on the furnace's sidewalls. This resulted in heat from the furnace being lost through hotspots and thus leading to higher fuel consumption



After

The furnace's hot face was insulated with cerawool and zirconia coating. The benefits were:

- The deposition of carbon is prevented.
- Fuel can be saved.
- The furnace has an improved refractory life.

Cost: € 1,293 for the installation of the insulation Annual Savings: € 15,467 from fuel savings Payback: 1 month

