

We are looking for companies to be our partners in the project

The target companies are companies from agro-industry sector: Companies should work with materials from agriculture, fishery and/or forestry. Companies from food or feed production fit best, but also from textiles, leather, furniture, are welcomed.

Your interest in real investment is important if the innovations turn out to be economic feasible. The team guarantees the confidentiality of the data, but expects an open communication with company staff. Preceding experience with Resource Efficient and Cleaner Production's projects is welcomed but not necessary.

Company's advantage to join the project

- The companies will get a fundamental analysis of their production processes including an evaluation of the existing structures and technologies.
- The process modifications made and investments carried out should lead to a competitive advantage.
- Measurements and energy flow analysis
- Detailed design and economic analysis for Low Carbon technologies
- The process modifications made and investments carried out should lead to a competitive advantage.

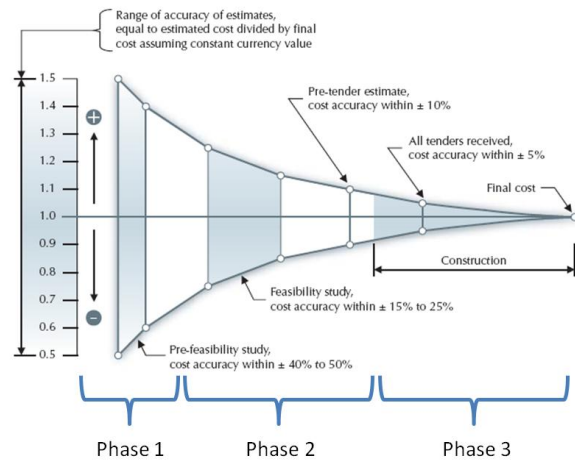
If your answer is "YES", then we are looking for you

To contact us

In Macedonia
In Serbia
In Albania
In Croatia
In Montenegro
In Moldova

www.ncpc.com.mk
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www.ecat-tirana.org
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Overview of the LC project structure, you could participate in



Phase 1: Prefeasibility studies: Analysis and selection of LC-options, basic design, first economic evaluations.

Phase 2: Feasibility studies: Final data acquisition and detailed design; detailed economic analysis

Phase 3: Realization, verification of assumptions and design, dissemination of results

SOON WE WILL START THE FIRST PHASE OF THE PROJECT

GROUP 1 – OCTOBER 1, 2013

GROUP 2 – MAY 2014



LOW CARBON TECHNOLOGIES TO GREEN THE INDUSTRY



OPEN CALL FOR COMPANIES TO JOIN THE REGIONAL PROJECT ON LOW CARBON TECHNOLOGIES

The project is initiated by UNIDO and implemented by the National Cleaner Production Centers in the Republic of Macedonia, Serbia, Montenegro, Moldova, Croatia and Albania

Background

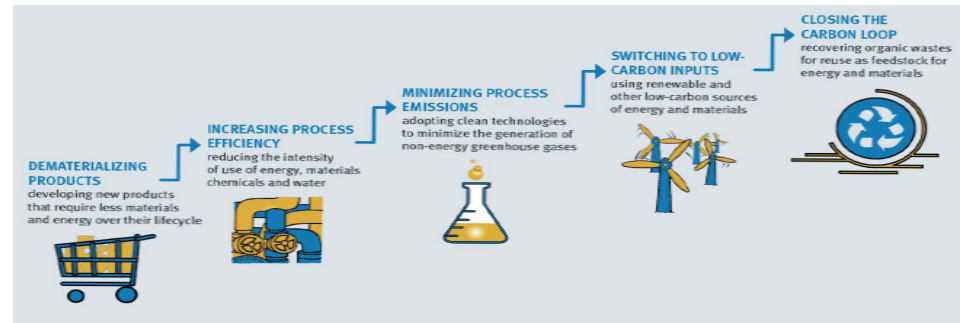
Europe is a well industrialized region, but it lacks fossil resources. To keep Europe in a leading role, industries have to be strengthened, and more than this, a re-industrialization has to take place.

One important part of this strengthening is an energy and resource efficient production and low carbon technologies implemented in SME for improved competitiveness

Goals

The goal of the Low-Carbon project for the South east European region is to lead the companies to high energy efficiency and reduction of fossil carbon emissions in order to ensure and foster the world wide competitiveness, improve the security of energy supply and guarantee the sustainable production.

It is the goal of this project to create best-practice examples for Low-Carbon technologies in selected companies in South East Europe. These examples should function as a nucleus for further technology changes and thus strengthen the economic power of the region.



Concept of Low Carbon

What is a Low-Carbon Economic System

A low-carbon economic system is a production and consumption of essential goods with a minimized input of fossil resources. This can be reached by

- Energy and Resource efficiency and Cleaner Production
- Solar energy for production processes
- Biobased systems from by-products

Such a redesign of production lines has several advantages for the society. First of all, the dependency on energy imports is reduced substantially and money spent for energy outside the country so far stays inland. Second, the emission of greenhouse gases is reduced and climate change can be slowed down. More than this, we expect additional job opportunities in the energy and possibly in the industrial sector, leading to obvious advantages.

Approach

In the Regional LOW CARBON project we will follow up three tracks in parallel.

Energy and Resource Efficiency and Cleaner Production RECP	Solar Heat in Production Processes SHIP	Biobased Systems BIOREFINERIES
<p>A shift towards an economy that is based on renewable resources is impossible without a significant increase in the material and energy efficiency.</p> <p>The measures envisaged cover the whole spectrum applied in Cleaner Production projects and range from good housekeeping, closing cycles, product modification to new technologies.</p> <p>Low-Carbon alternative include process intensification, like the shift from batch to continuous processes, heat integration and multifunctional process units.</p>	<p>Solar thermal energy has the power to cover a great fraction of the heat needed at moderate temperatures. Sometimes, a process modification is necessary to match the needs with the supply from the collectors.</p> <p>Applications of solar thermal energy range from preheating all kinds of fluids to drying, washing and evaporation processes or pasteurization. In any company where cleaning (bottles, pipes, tanks, floors, products) is essential, solar heat could open an economic option.</p> <p>Photovoltaic supply of electricity will be investigated as well.</p>	<p>The agricultural sector supplies raw materials to the food industry and some other sectors. It also could supply biomass as energy carrier. Large amounts of biomass, waste or by-products from the agricultural sector but also from the food industry – like unused parts of plants, bio-waste from processing, manure from animal farming – can be converted into useful forms of energy in incineration or gasification plants.</p> <p>In some cases bio-wastes can further be processed for the production of fine or bulk chemicals or energy carriers that can be sold on the market (biorefinery approach)</p>