



# Eco-Industrial Park – industrial symbiosis

## Eco-Industrial Park is

- an area where businesses and public sector organisations collaborate with one another to improve effectiveness
- an international centre of innovation

## Eco-Industrial Park recycles

- materials
- energy
- expertise and information

## Eco-Industrial Park's synergistic advantages

- maximizes the recycling of material and energy on a closed loop basis
- the waste or by-product of one process or product is used as raw material for another product
- energy produced can be utilised within the park
- effectively benefiting from expertise by collaborating together rather than acting separately

## Ypäjä – equine industry as a part of the environment

Ypäjä is Finland's leading equine municipality where research, training and business activities in this sector are concentrated. In 2008, MTT Equine Research Centre and the Equine College of Ypäjä developed management tools to become the first equine businesses in Europe to certify for Eco-Management and Audit Scheme (EMAS).

## Forssa region

### Forssa – concentration of environmental industries

The town of Forssa is the economic centre of the region located at the heart of Southern Finland's most populated area and its economic activity. The Forssa Envitech Area is a concentration of the most comprehensive centres of environmental expertise even by European standards. HAMK University of Applied Sciences and other educational institutions in Forssa teach courses for the future environmental experts.

### Jokioinen – innovation in renewable resources

The municipality of Jokioinen is the home for Agropolis Science Park and the internationally renowned MTT Agrifood Research Finland. MTT generates innovation in renewable natural resources through its research programmes. The specialist enterprise Agropolis Oy is responsible for the development of sustainable food production and the exploitation of renewable natural resources.



### Humppila – ecological logistics

A logistics complex is being planned for the municipality of Humppila, at the centre of Finland's population and manufacturing. The Humppila Eco Airport Logistics Centre will include an airport, a railway and network of major trunk roads, and goods and passengers will be able to change their mode of transportation in an ecological and efficient way within the same building complex.



### Tammela – natural living environment and tourism

The uniqueness of the municipality Tammela's natural setting in the lake uplands of Häme and its sustainable development have a central role for future strategies and in the provision of services for both everyday and leisure time activities and associated businesses.



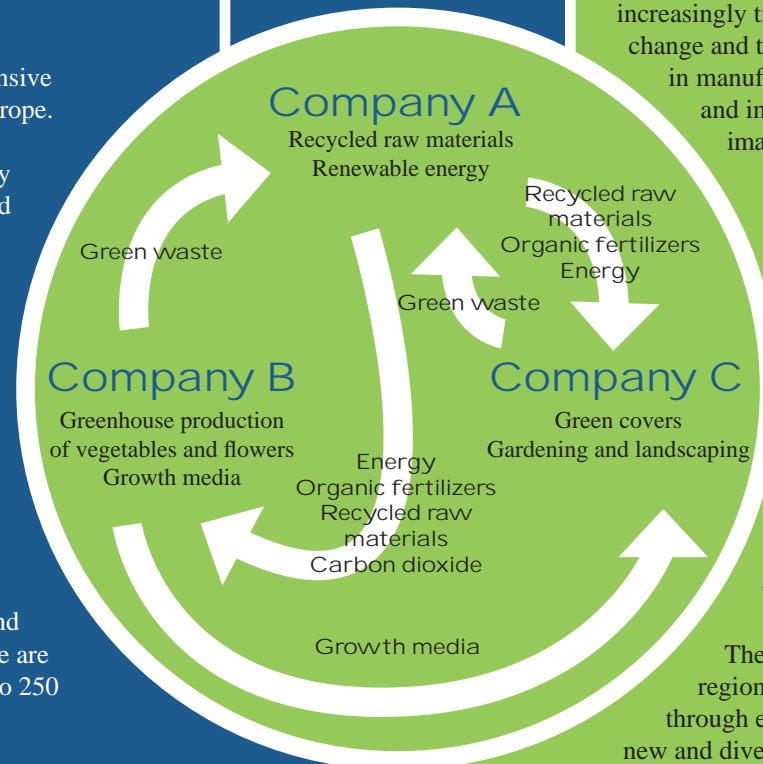
## TODAY – The Envitech Area

The Forssa Envitech Area is a coalition of companies and public organisations operating in the environmental sector. The Envitech Area is a **market leader in Finland** in glass recycling and has a significant role nationally in the handling of electric and electronic scrap, contaminated soil and biowaste. Business activities related to environmental technology, consultation, and other associated services are a growing sector in the Forssa area. The Envitech community includes organisations which are involved in research, training and regional developmental work.

The Envitech Area is one of the most comprehensive concentrations of environmental expertise in Europe. The site provides environmental management solutions in recycling, waste handling, bioenergy production and in the utilisation of waste derived raw materials, through research, planning and environmental expertise. Several recycling operations in the area have been the **first of their kind in Finland, Europe and sometimes even the first in the world.**

The site's central location, **robust infrastructure**, and co-operation between companies and organisations are important factors in developing the Envitech Area's competitive position. The multiplicative effect extends to diversified and significant research and training. At this major material flow centre, there are approximately 20 companies, employing close to 250 environmental sector professionals.

Example of material and energy flows within the Envi Grow eco-industrial park



## TOMORROW – Envi Grow Park

The Envi Grow Park is a developing concept for an international Eco-Industrial Park where, in addition to companies specialised in recycling and waste management, there are industries utilising the recycled materials and renewable energy. Materials, energy and technological excellence circulate between the various enterprises. Multiple benefits are obtained from this co-operation.

The business concept of the Envi Grow Park is to operate as a leading production site for biomaterials and bioenergy with an **integrated and forward looking** approach to increasingly tighter global regulations with regard to climate change and to the international efforts to reduce energy waste in manufacturing, production processes, product refining and in logistics. The concept includes marketing the image of the businesses and of the entire region.

Bioindustry is an expanding sector for the future and is subject to constant innovative applications through scientific and technological research. The Envi Grow Park is an ideal site, for example, for large modern greenhouses and for the production of green covers (sod turf), growth media and bio-fertilisers. Further business potential can be found in the production of biogas and biodiesel for use as transport fuel, in utilisation of carbon dioxide separated from biogas, in industrial aquaculture using bioenergy and the innovative utilisation of the by-products from the food industry.

The Forssa Envitech Area's infrastructure and the region's **resolute determination** to profile itself through environmental expertise create opportunities for new and diversified business activities.

# Envi Grow Park

Agropolis Oy advances the eco-industrial park's operations in the Forssa region



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