

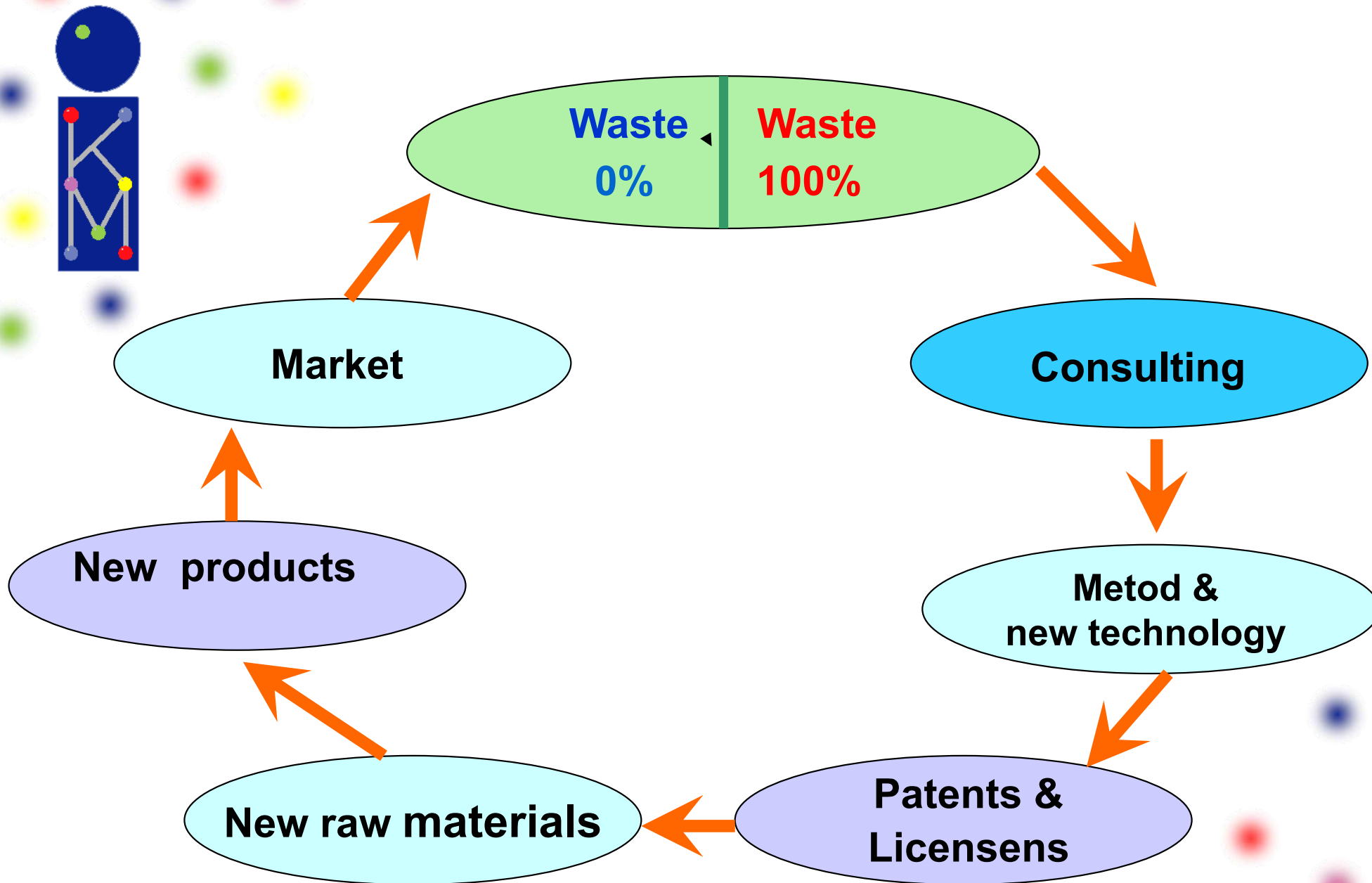


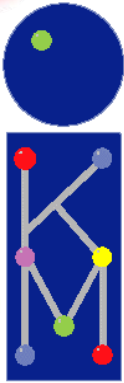
# KMI Kemimäklarna International AB

**The purpose of the company is to perform research and development of waste reduction.**

**The business idea is to offer profitable business concepts, innovations and new technology.**

**The aim is to make ecology and economy working in synergy!**





# KMI Kemimäklarna International AB

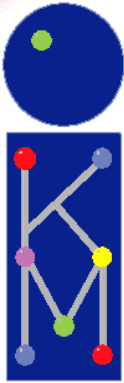
*Our strength is transforming problems into possibilities*

- **Kemimäklarna International has transformed tons of waste and biproducts into valuable raw materials.**
- **Cooperating in projects with the Swedish authorities and waste companies in the whole country.**
- **References such as local Swedish authorities, the Swedish EPA, and several Swedish companies.**
- **We can offer total solutions and profitable calculations.**



# Consultant services

- **Creating tailored methods for recycling waste and patent applied innovations**
- **Specialty:** frequent returning biproducts
- **Mediation of:**
  - Waste (with reduction up till 90%)
  - Chemical biproducts, paper, plastic
  - Raw materials, metals, construction material

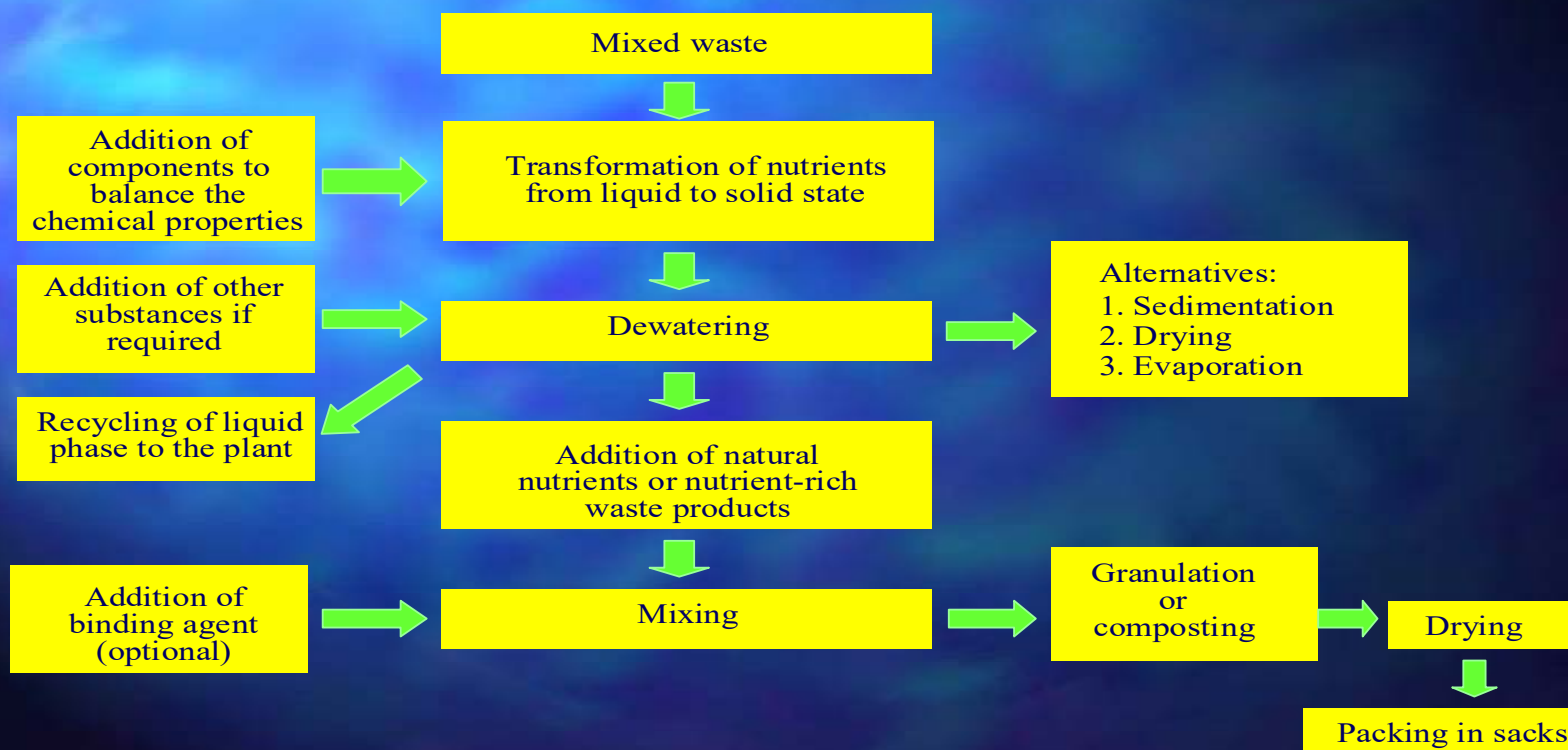


# A GLOBAL METHOD OF TREATING SOLID ORGANIC WASTE, LIQUID WASTE, BIOFERTILIZER, SLUDGE AND OTHER WASTE, AND PRODUCTS RESULTING FROM THE TREATMENT

Process patented in Sweden



## A Method of Treating Solid Organic Waste, Liquid Waste, Biofertilizer, Sludge and Other Waste and the Products Resulting from this Treatment





## **Profitable technology for the recycling of plant waste or other biowaste**

**This global processing method can be applied to most waste, for example, biogas plants, sugar-cane plantations with sugar plants or distilleries, or other municipal plants.**



# An independent and economic business concept

- The result of sugar-cane cultivation and alcohol distillation is organic waste in various forms, which leads to economic and environmental problems.
- *The current project will be adapted to the geographical and climatic conditions prevailing in Sri Lanka, as well as demands from local authorities regarding permissible values.*
- The process will also be adapted to the marketing potential of the product.



# AIMS

The aim of the processing method is to eliminate waste which has a negative impact on the environment, unnecessary handling costs, and the problem of disposing of the waste.

At the same time as solving all the above problems, the waste can be transformed into a fertilizer rich in nutrients, which is easy to handle, use, market domestically or export

# METOD

- The method is based on retaining the nutritious matter prior to water removal, and the addition of various kinds of natural nutrients.
- The final product is dry, granulated fertilizer. Tests can be carried out on a small scale and then scaled up to commercial fertilizer plants at any waste producer.
- The method can be individually adapted to suit each project.



**The European model can be adapted as illustrated below**



# Patent-pending recycling method for freon-free waste in industry

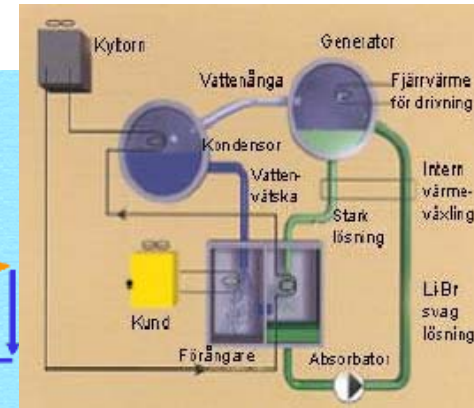
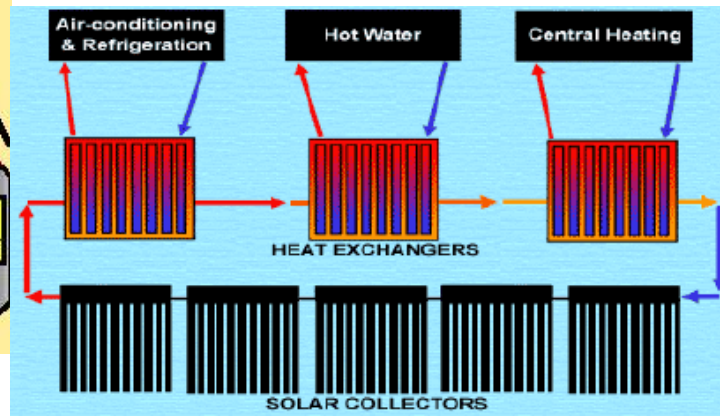
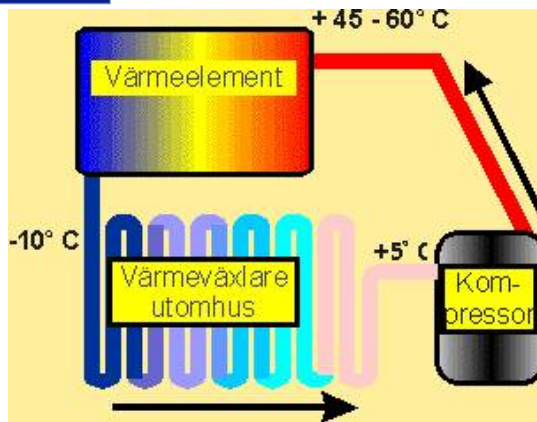
## **FREON-FREE REFRIGERANT LiBr/NH<sub>3</sub>**

- **Cooling pumps, absorption pumps and district heating pumps**
- **Energy-saving processing plants**
- **Air conditioning**
- **Solar energy**
- **Refrigeration plants and other refrigeration equipment**



# Recycling of freon-free waste saves the environment

*A new recycling method for freon-free waste within industry, cooling, heating and processing plants, and air conditioning*



## Examples



Lithium Batteries

# SKAPA Foundation

## 1999 and 2002

Awarded  
in  
memory  
of the  
inventor

Alfred  
Nobel

**Skåne**  
Nenna Olsson

*Atervinning av freonfritt avfall räddar miljön*

En ny återvinningsslag för freonfritt avfall inom  
industrin, kyl-, värme-, processanläggningar,  
AC samt luftkonditioneringar.

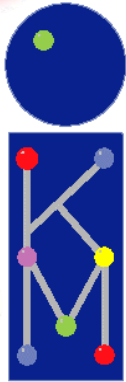
**Ozonskiktet  
blir allt tunnare**

Innovationen för freonfritt avfall har en global användning. För att bevara ett oförändrat ozonskikt, förbjuds  
användning av freoner nästan globalt. Förbrukade/kasserade freonersättningsämnen kan skapa nya  
avfallsproblem som belastar/förstör miljön inom luft, mark och vatten. Deponering av olika utrustningar, bilar,  
energianläggningar kommer att öka nya typer av avfall som kan återvinnas med upplifningen.

**Exempel på användning samt besparingar/vinster vid återvinning av freonfritt avfall köldmedium.**

|   |   |
|---|---|
| Användning ... Kyl-, absorptions-, fjärrvärmepumpar<br>& energibesparande processanläggningar | Avfall: ..... ca 4-7 ton köldmedium             |
| ... AC i Byg. bilar, hotell & övriga byggnader  | Återvinningsresultat: ..... > 99 %              |
| ... Kylanläggningar samt andra kylutrustningar  | Destruktionsbesparing: ..... SEK 4 - 7 miljoner |
| ... Solemner  | Konstruktör för rening: ..... marginella        |

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# *Economic fibre recycling process for the production of plastics & building materials*

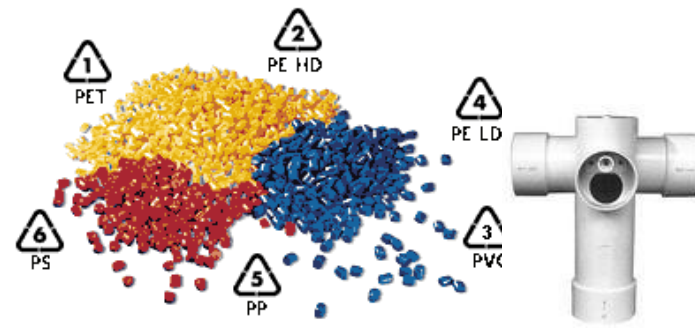
*A new recycling method for residual fibrous material from the forest and pulp industries for use in construction materials & plastics*

*facts on*

## **PAPER RECYCLING**



*The global waste mountain of residual fibrous material can be recycled to provide plastics or building materials*





# ***Economic fibre recycling process for the production of plastics & building materials***

- This innovative method of fibre recycling has worldwide applications.***
- To reduce the amount of waste throughout the world, landfilling of organic materials is being prohibited.***
- The waste can be recycled with the method presented here.***
- The economic process can be used to convert fibrous waste into plastics or building***







# *Economic fibre recycling process for the production of plastics & building materials*

