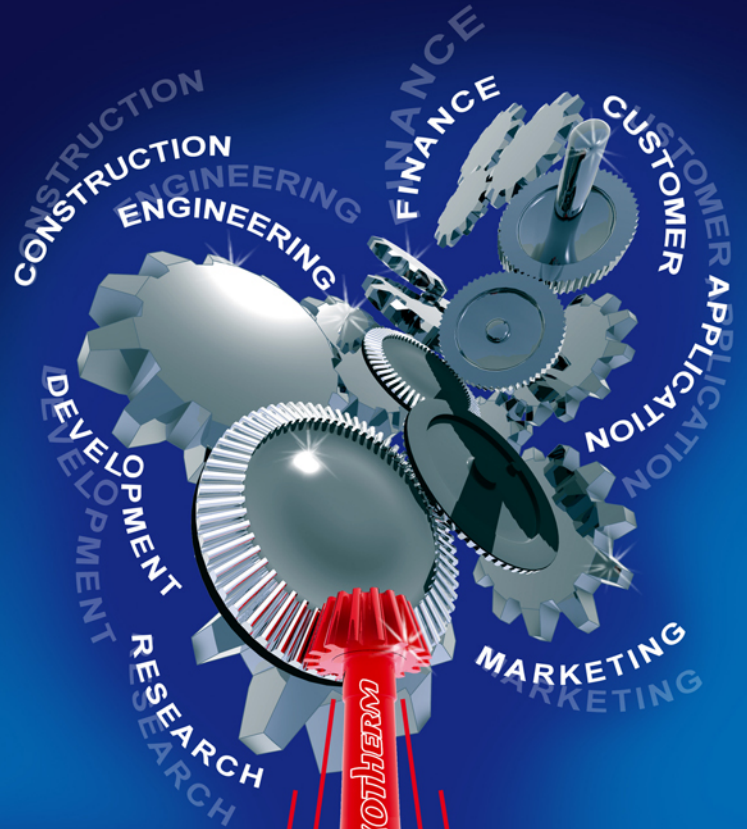
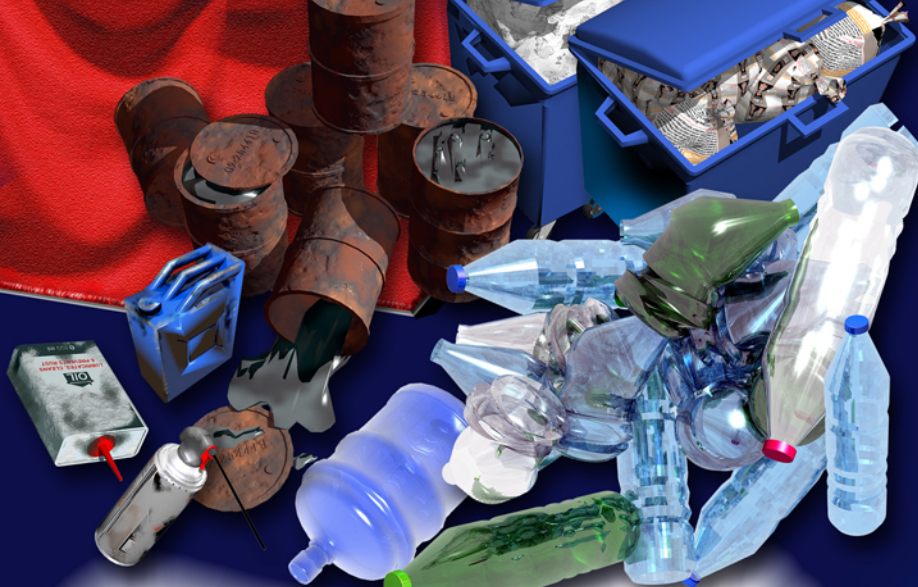


BE OUR PARTNER

HYDROGEN AND CLEAN ENERGY FROM WASTE



EURO INNOVATION

PROCESSES

NO CO₂ = EMISSION FREE



LUXOTHERM

MELT

INPUT

- ▶ Waste oils and engine oils
- ▶ Solvents
- ▶ Greases and waxes
- ▶ Lubricants and cutting oils
- ▶ Cryogenic agents, refrigerants
- ▶ Varnish and paints
- ▶ Glues and resins
- ▶ Plastics and rubber
- ▶ Bituminous residues
- ▶ Animal and plant residues.

OUTPUT

- ▶ Hydrogen (H₂)
- ▶ Alkali Hydrides

METAL CHLORIDES

INPUT

- ▶ Chlorinated hydrocarbons (e.g. carbon tetrachloride, chloroform, perchlorethylene, PCB-transformer oils, refrigerants, pestizides, PVC)
- ▶ Solid metal oxides (e.g. oxidic metallurgical wastes or natural minerals containing SiO₂, TiO₂, Al₂O₃ and many other pure or mixed oxides)

OUTPUT

- ▶ Hydrogen (H₂)
- ▶ Metal Chlorides

O H C

INPUT

- ▶ PET-bottles
- ▶ Textile fibres (e.g. polyester, cotton)
- ▶ Plexiglass/Perspex
- ▶ Fibre-reinforced plastics (e.g. circuit boards, boat shells, moulded components,)
- ▶ Polysaccharides (e.g. cellulose, starch,)
- ▶ Wood and paper
- ▶ Different kinds of biomass

OUTPUT

- ▶ Hydrogen (H₂)
- ▶ Soda

COST EFFICIENT !

HIGH RETURN ON INVEST !

ADVANTAGES

- ▶ Reduction of waste volume
- ▶ Ecologically and economically efficient
- ▶ Zero carbon dioxide = EMISSION FREE
- ▶ Conversion of waste into valuable materials / products
 - ▶ Hydrogen (> 90 % purity)
 - ▶ Alkali hydrides, metal chlorides or soda
- ▶ All these materials may be used for high tech applications and in different sectors (Industry, commercial, residential, fuelcell, transport, etc.).

APPLICATIONS

