

## **ECLIPS By-Products Produced & Uses**

ECLIPS is a true re-cycling process treating waste as a valuable raw material, producing valuable by-products for commercial use.

<b>ECONOMIC BENEFITS</b>	<b>BY-PRODUCT USES</b>
CLEAN ELECTRICITY	Sold to grid/local industry or for internal use
HEATING	District community heating in CHP configuration
CLINKER/ ASH	Road Rubble/Bricks & new materials under development
WATER	<p><b>Car batteries</b> - distilled water.</p> <p><b>Irrigation</b> - Agriculture - Increased food production</p> <p><b>Drinking</b> - with addition of mineral additives</p>
OXYGEN	Eclips plant re-use - efficiency increase/excess for commercial sale
CARBON DIOXIDE	<p><b>Cleaning</b> - Clothes - Car/Aeroplane/Marine Parts - Buildings, bridges, infrastructure</p> <p><b>Fire Safety</b> - Fire Extinguishers</p> <p><b>Fumigation</b> - Wheat/rice/grain silos - increased food supply</p> <p><b>Food</b> - Market Gardening - increased food supply - Refrigerated Transport - food preservation - Food grade ice for shops - Removes fat from milk - Removes caffeine from coffee</p> <p><b>Soft Drinks</b> - Bubbles in “fizzy” soft drinks</p> <p><b>Oil Industry</b> - Increase oil well production - energy supply</p>
NITROGEN	<p><b>Car/Bikes</b> - Pressurised suspension systems</p> <p><b>Aero Ind.</b> - Safety, pressurise empty fuel tanks</p> <p><b>Steel</b> - Annealing/softening steel</p> <p><b>Glass</b> - used in glass manufacture</p> <p><b>Electronics</b> - Clean chip manufacture</p> <p><b>Medical</b> - Bio-technology research- blood/gene store</p> <p><b>Agriculture</b> - Manufacture of nitrates and fertilisers</p> <p><b>Food</b> - Preservative, seals food in tin cans</p> <p><b>Cleaning</b> - Ammonia production for all household cleaning agents</p>
HYDROGEN	<p><b>Energy</b> - Fuel cell manufacture - car industry - Rocket fuel</p>
OIL	<b>Tyres</b> - Oil/fuel additives from tyre disposal
OTHER PRODUCTS	<b>Acids &amp; Gypsum</b>