

**EMISSION & EFFICIENCY COMPARISON **ECLIPS** v CONVENTIONAL INCINERATION SYSTEMS**

		<b>CONVENTIONAL</b>	<b>ECLIPS</b>
<b>REVENUE FROM GATE FEES</b>		MSW - MUNICIPAL SOLID WASTE OR HZW - HAZARDOUS INDUSTRIAL WASTE Flat Grate designs - limited to single waste type	MSW - MUNICIPAL SOLID WASTE <b>AND SIMULTANEOUSLY</b> /OR SEPARATELY HZW - HAZARDOUS INDUSTRIAL WASTE Rotary Kiln design - multiple waste type capability
<b>PLANT SELF SUFFICIENCY</b>		POWER - ELECTRICAL GENERATION	POWER - ELECTRICAL GENERATION <b>AND</b> PLANT WATER ECLIPS system removes H <sub>2</sub> O from flue gas for use
<b>VOLUME OF FLUE GAS PASSING THROUGH FILTERS &amp; SCRUBBERS</b>		100%	15% Closed loop system requires smaller filtration system
<b>FLUE GAS - SMOKESTACK AIR EMISSIONS</b>		100% - CO <sub>2</sub> tax debit - emission penalty All flue gas produced is released into atmosphere	0% - CO <sub>2</sub> tax credits @ \$10/tne Zero emissions - no flue gas released to atmosphere
<b>EMISSIONS</b>	<b>EU EMISSION LEVEL</b>	<b>CONVENTIONAL - BEST ACHIEVED</b>	<b>ECLIPS</b>
HCl	10	2.2	0
SO <sub>2</sub>	40	4.8	0
DUST	5	1.3	0
Hg	0.05	0.05	0
NO <sub>x</sub>	100	25.0	0
HC	20	1	0
Dioxins, Furins - TE	0.1	0.005	0
Values measured in mg/Nm <sup>3</sup> , dry, @ 11% O <sub>2</sub> ; TE: ng/Nm <sup>3</sup> , dry, @ 11% O <sub>2</sub> - Half hourly mean values - BLA'93 (EU Statistics)			
<b>ECONOMICS</b>		High- maintenance, logistic supply & monitoring costs Continual emission system upgrade - compliance costs Gas emissions - environmental/public health risk Income stream & profit margin limited - CO <sub>2</sub> tax debit	Low- maintenance, logistic supply & monitoring costs No emissions - filtration system for plant lifetime No emissions - reduced risk of litigation Income stream & profit margin maximised - tax credit