

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

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