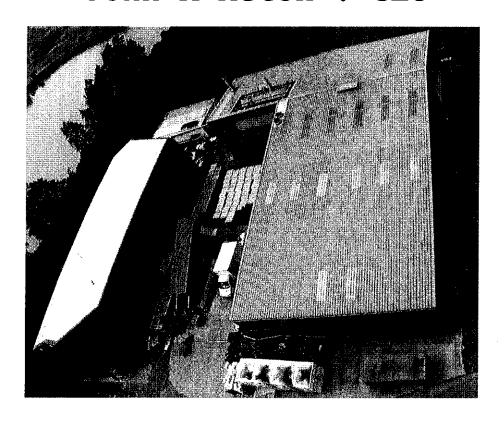
Compact Power

Solutions to Waste

Jersey Shadow Scrutiny Panel Friday 15th October 2004 John M Acton : CEO



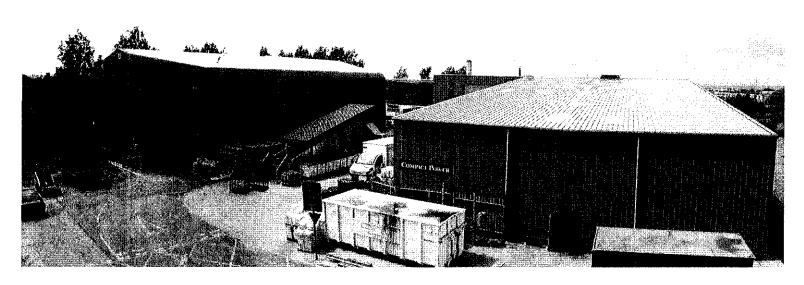


Company Overview

- 1. UK company supplying an innovative, proprietary and proven pyrolysis & gasification technology
- 2. Company successfully listed in April 2002 on the London Stock Exchange's Alternative Investment Market
- 3. In-house expertise & associated professionals to address all aspects of project cycle (engineering, financing, planning, etc.)
- 4. On-going research and development to maintain leadership in advanced thermal recycling
- 5. Expansion in international markets through partnerships with waste management companies, engineering companies, EPC contractors and project developers



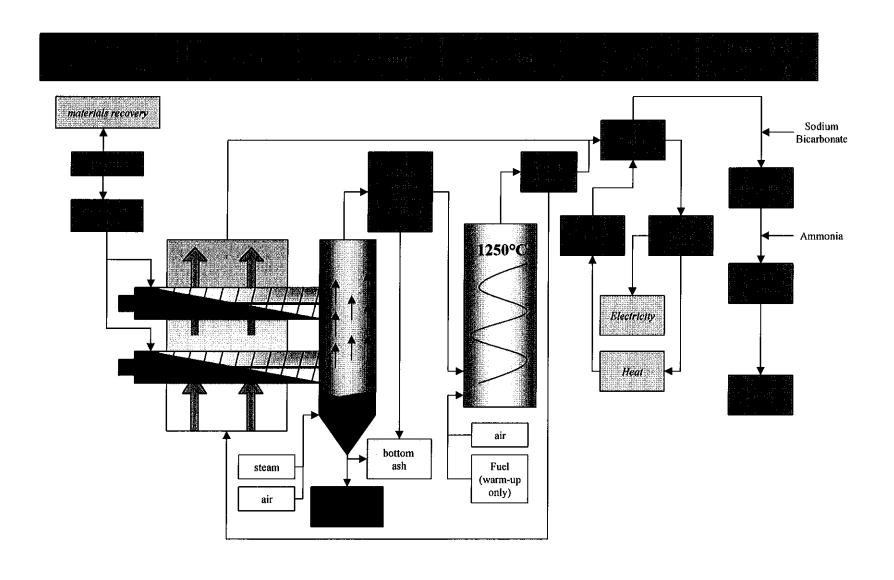
The Avonmouth Plant



- ☐ First operational plant in the UK to receive IPPC certificate
- ☐ Tested on RDF, unsorted MSW, sewage sludge
- ☐ Commercial facility currently processing clinical, pharmaceutical & confidential waste
- ☐ Provides energy for "Tempico" sterilisation plant for maximum efficiency and flexibility.

Process description

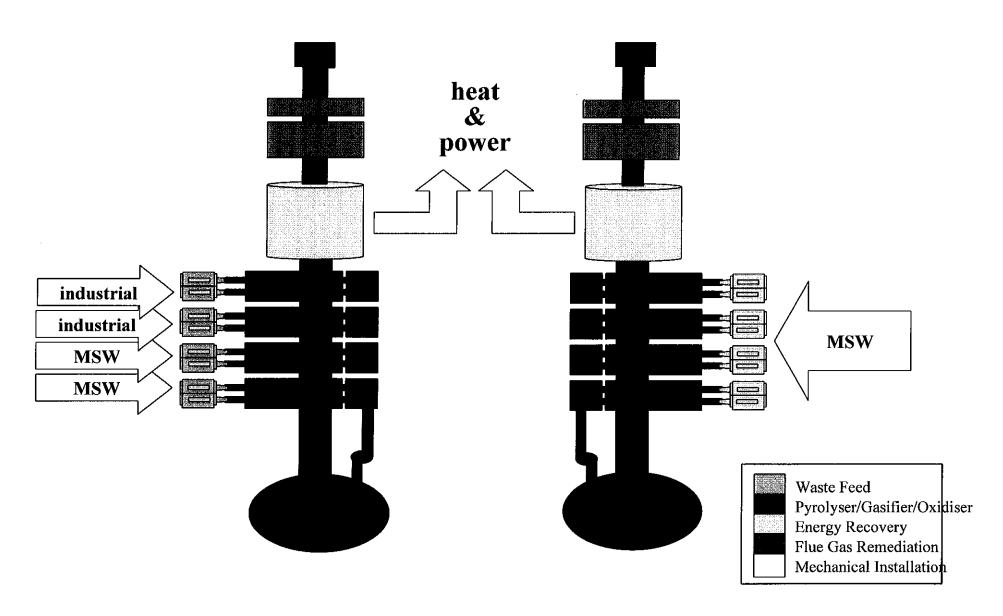




MT8 - 2G

COMPACT POWER Solutions to Waste

Modularity



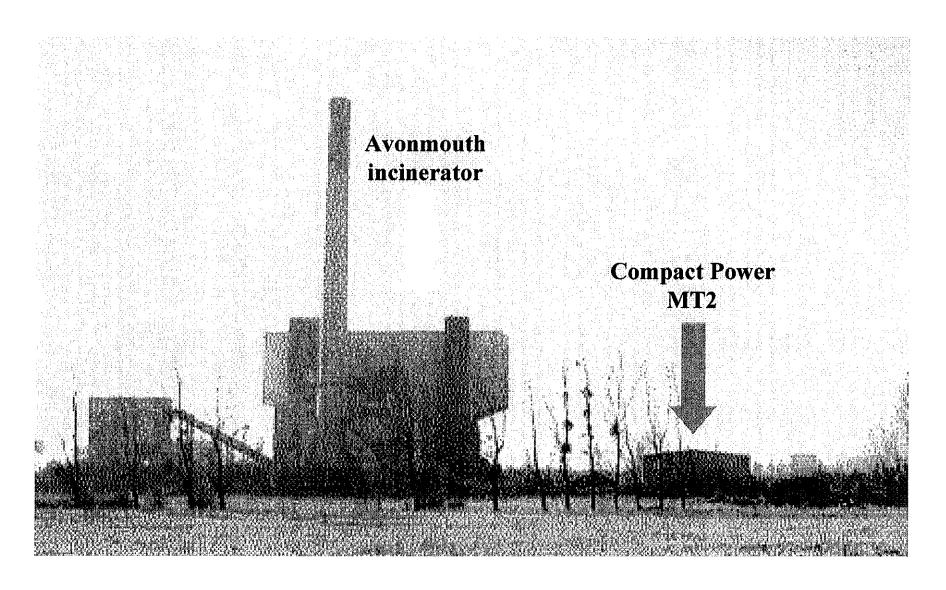


Principal Technical Features

- Essentially a fuel gas production plant coupled with a gas fired boiler
- > Combined pyrolysis, gasification and high temperature oxidation
- Continuous process
- > Each stage separately controlled
- ➤ Minimises production of pollutants
- Immediate combustion of gases avoids production of noxious by-products







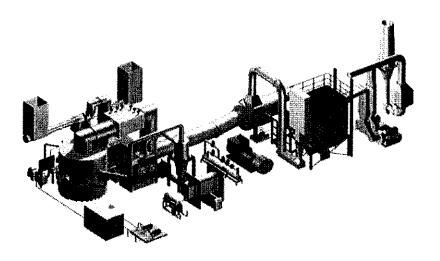
Compact Power

Environmental Impact

mc/Nm³ 11%0 ₂ @ 273K & 101 3RPa	EU Di			
	s: spot / didaily	½ hour		
Particulates	10 (d)	30	0.2	
VOC's as carbon	10 (d)	20	Trace	
NO (NO + NO ₂)	200 (d)	400	<37	
HCI	10 (d)	60	2	
HF	1 (d)	4	<0.1	
SO ₂	50 (d)	200	< 2.5	
СО	50 (d)	150	Trace	
Cd & TI	0.05 (s)		0.006	
Mercury	0.05 (s)		0.006	
Pb Cr Cu Mn Ni As Sb Co V	0.5 (s)		0.006	
Sn Dioxins TEQ ng/Nm ³	0.1 (s)		<0.003	
N ₂ O	30 (d)		Trace	
NH ₃	10 (d)	20	< 1	

RDF Trial Results





Emission results from the ABB FTIR CEMAS system

Data for week 13/06/02

	HCl mg/m3		CO mg/m3		SO2 mg/m3		NOx mg/m3		VOC mg/m3		NH3 mg/m3		Particulate mg/m3	
	Day Avg.	Max 1/2hr	Day Avg.	Max 1/2hr	Day Avg.	Max 1/2hr	Day Avg.	Max 1/2hr	Day Avg.	Max 1/2hr	Day Avg.	Max 1/2hr	Day Avg.	Max 1/2hr
WID limit	10	60	50	100	50	200	200	400	10	20	10	20	10	30
Trial Avg.	0.91	1.73	1.45	20.74	0.34	3.22	30.3	61.5	0.34	2.1	0.29	0.83	2.13	4.7
% of WID	9.08	2.88	2.91	20.74	0.69	1.61	15.15	15.38	3.36	10.51	2.91	4.14	21.29	15.67
Trial day Max	3.05	4.42	2.86	58.67	1.25	13.06	33.89	89.86	0.39	7.57	0.45	1.82	2.44	12.66
% of WID	30.5	7.37	5.72	58.67	2.5	6.53	16.95	22.47	3.9	37.85	4.5	9.1	24.4	42.2
Trial day Min	0.24	0.58	0.26	1.94	0.05	0.76	24.58	42.68	0.3	0.66	0.19	0.4	1.75	3.09
% of WID	2.4	0.97	0.52	1.94	0.1	0.38	12.29	10.67	3	3.3	1.9	2	17.5	10.3

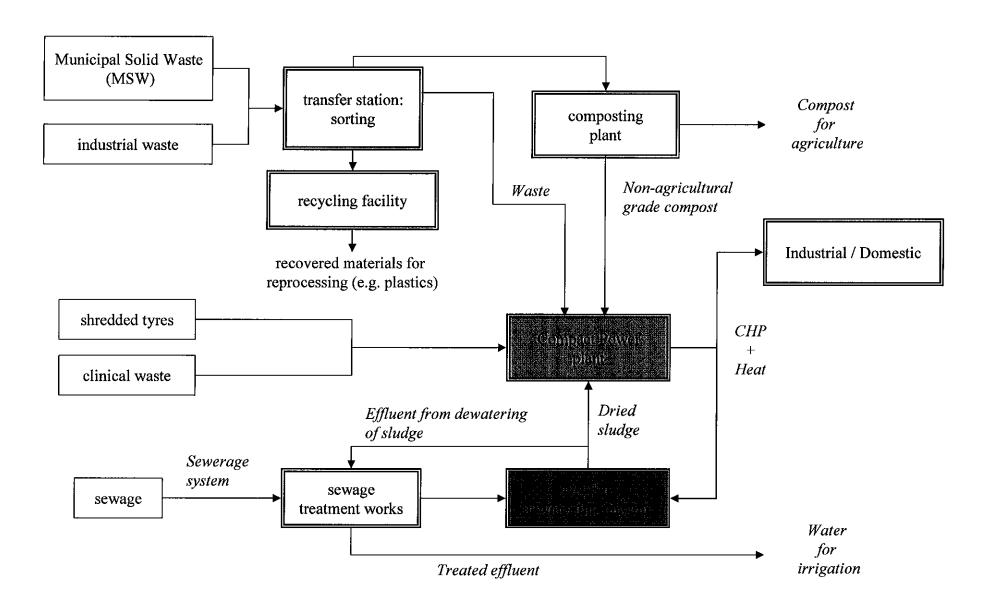
Compact Power

Project economics

Volume **Gate Fee** 60,000 Tpa mixed waste facility 3,000 tonnes clinical waste £250 / tonne dried sludge 10,000 tonnes £80 / tonne 5,000 tonnes £60 / tonne riotanan Kolicalani Aviatoko 5,000 tonnes £45 / tonne refuse derived fuel-12,000 tonnes £40 / tonne (RDF) 25,000 tonnes £30 / tonne 3.3 MWe @ 4.5p/kwh **Total gate fee: £3,305,000** =£1,205,000 Ave $\pounds/tonne = \pounds55$

Integrated Solution

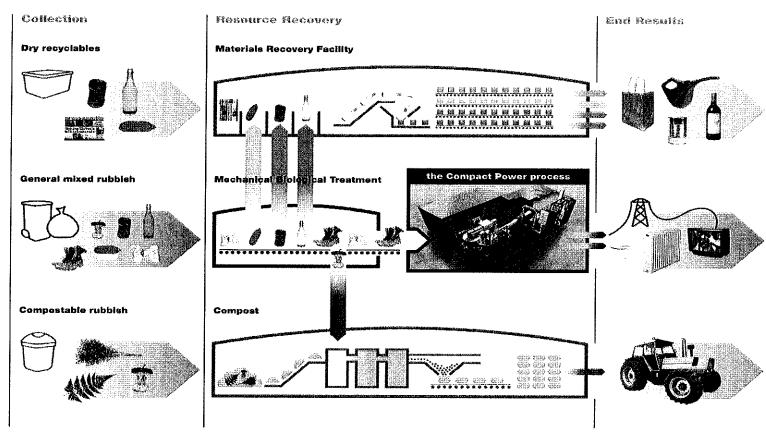
COMPACT POWER Solutions to Waste





Integrated waste management

the resource recovery centre



Proposed Project in Cornwall



Resource Recovery Centre

Input:

106,000 Tpa

Unsorted household waste, separated recyclables, organic wastes, small amount of trade waste (45% total household waste in Cornwall)

Process Operations:

- Materials recycling
- Composting
- Mechanical Biological Treatment
- CPL pyrolysis-gasification (64 ktpa)



Environmental audit completed

Key Benefits



Process

- ⇒ Proprietary technology
- ⇒ Configuration based on modularity
- ⇒ Waste processing versatility

Image

- ⇒ 'Best Practicable Environmental Option' (BPEO)
- ⇒ Environmentally friendly
- ⇒ Low stack / low profile building

Economics

- ⇒ Competitive gate fee
- ⇒ Size / proximity reduces waste transportation impact
- ⇒ Renewable energy benefits

Energy & gas clean-up

- ⇒ Energy recovery: heat and/or electricity
- ⇒ Low emissions

Technology

⇒ Research & development in recovery of valuable by-products

COMPACT POWER

Solutions to Waste

If you have any question, do not hesitate to contact us: Compact Power

Hydro House, St. Andrews Road, Avonmouth, Bristol BS11 9HZ, England

Tel: 44 (0) 117 9802900

Fax: 44 (0) 117 9802901

email: info@compactpower.co.uk

or visit our website at: www.compactpower.co.uk

