



**SOUTH WESSEX WASTE MINIMISATION GROUP: 14th June 2017, Merley House,
Wimborne**

MINUTES OF MEETING

1. Present

(see attached)

2. Eco new CHP plant and Updates at Parley – Mark Troughton and Tony Cauchi - Eco Sustainable Solutions Ltd

Mark provided an overview of the company.

Eco can be described as an ‘Organic recycling and renewable energy company’. The company recycle organic waste materials and convert them into new products; they also generate renewable energy from the treatment of food waste; and from wood waste via our CHP Plant.

They have three sites – Weymouth, Piddlehinton and the main site at Parley.

Tony then provided an overview of the new Combined Heat and Power (CHP) facility at Parley

- The CHP plant at Parley was designed, built and commissioned in March 2017.
- The plant is housed within a bespoke building.
- **The main components of the CHP:**
- A Fuel Handling System (Providing biomass to the Boiler).
- A Biomass boiler (primary heat source, converting Biomass fuel to hot gases)
- A Heat exchanger (Transfer of heat from hot gas to a primary heating oil)
- A Closed loop Turboden unit, working principle based on the Organic Rankine Cycle. (Ultimately to transfer thermal energy from the ‘HOT’ primary oil to electrical energy.
- The plant is a fully automatic, state of the art installation using the latest technology to provide a combined gross energy output of four megawatts electrical and thermal energy.

- The CHP system is safely started, run, shutdown and controlled by an integrated burner management ,combustion control system , complete with continuous emissions monitoring (CEM) equipment

The purpose CHP Plant is to utilise and convert the stored energy in recycled waste wood (Biomass) into Electrical and Thermal Energy.

Utilise the co-generation of this energy, to provide power the parley site, with excess electrical energy, providing power for the National grid.

To reduce and process waste streams of organic origin, otherwise destined for landfill or incineration.

To eliminate any load requirements as a user of power from the national grid.

To contribute, as an energy provider to the national grid.

Remove reliance of site generators to sustain operations at the Parley site.

The Biomass Boiler:



Eco Updates:

Site has been extended to increase production for our soils recycling.

Eco has set itself a goal to achieve ISO 14001:2015 by the end of the year;

Not a transition but implementing the whole system from new.

For further information please look on the website: www.thisiseco.co.uk

3. Commercial Recycling Ltd. and AMS - Stuart Mariner

Stuart provided an overview of Commercial Recycling and Avon Material Supplies.

Commercial Recycling:

Facilities in; Wimborne, Dorset & Shepton Mallet, Somerse

Processed circa 650,000 tonnes of waste in 2016

Operating since 2000

Full hazardous waste permit since 2012

Recently invested over £1m in a replacement aggregate washing plant

Trusted by Local Councils, Forestry Commission, Housing Associations & many businesses

Avon Material Supplies:

Large vehicle fleet operator

Active in both trade and retail markets

Established in 1993

Suppliers of recycled aggregates for key projects inc. Bournemouth Hilton, Odeon, Canford Bottom Roundabout

UK wide brokerage service

Committed to regular investment in systems, staff training and equipment

- ✓ Canford is a 15 acre site on Magna Road that is easily accessible from Poole, Bournemouth & East Dorset
- ✓ Planning granted for further facilities
- ✓ Recent market forces e.g. closure of local landfill
- ✓ Waste input has increased 3x since March 17
- ✓ Commitment to landfill diversion e.g. RDF & EFW
- ✓ Operation of an on-site aggregate washing plant

The operation at Canford:

- ✓ Acceptance of multiple waste types
- ✓ On-site experts
- ✓ Easy access, hard surfaces throughout
- ✓ Opening hours that include Saturdays
- ✓ Low minimum weight charges
- ✓ Completion of required paperwork e.g. consignment notes, WTNs

AMS Services:

- Supplier of recycled and primary aggregates
- Site clearances inc. contaminated waste
- Contracted waste management services
- Hazardous waste collection
- Fly tip management
- Skip and Rollonoff hire
- Grab lorry services
- Skip bag deliveries & collections

Vehicle fleet:

- 4, 6 & 8 wheeled grab lorries
- 6 & 8 wheeled tipper lorries
- 3.5 tonne tail lift van
- Rollonoff lorry
- Skip lorry

The company are also proactively dealing with flytipping which has escalated in recent years: low minimum charges, education and access to permitted facilities.

For further details go to: www.commercialrecycling.co.uk

4. 'If you have an internal waste problem – squash it!' – Steve Mason, MD, Pearce Group

Steve provided an overview of the company and it's services. Pearce Compaction are part of the Pearce group which was set up in 1992 in Verwood. The company began manufacturing in 2008. There are 4 companies in total:

- Pearce Paper Planet: office recycling, paper, cns etc.
- Pearce Compaction Systems: Manufacturing
- Recycling: MRF (St. Albans)
- Eco-bed: animal bedding (made from cardboard)

Pearce Compaction offer a wide range of machinery from very small to large (mill sized bales). Static compactors/balers re manufactured in Verwood.

Steve provided some examples of the work they have been involved with:

At Windsor castle a compactor runs off solar panels. The project was set up 6 years ago. The proto-type was exhibited at RWM in 2014. 7t of waste is compacted every 4 weeks and they have saved £350/pa on electricity.

Poole Park: 4 bins were emptied every day at a cost of £14/uplift. There was very limited space on site and it was not very accessible. All the waste went to landfill.

2 bin-presses were installed. This reduced the waste cost by 65%. There was a 56% reduction in vehicle movement and £13,312 saved p/a on disposal costs.

Oak Furniture Land, Swindon: I FEL emptied every day at a cost of £40/uplift.

Installed HB550 – reduced vehicle movement and allowed recycling at source.

100% reduction in waste costs, 93% reduction in waste movement and £5760 savings/pa.

For further details go to www.pearce-group.co.uk

5. Plastic Ocean - Anna Frizzell: RNLI

Anna provided some very thought provoking figures in regard to plastics in the sea:

- 300 Millions tonnes of plastic produced annually.
- 150 million tonnes used just once.
- 8 million tonnes ends up in the oceans
- 80% of all marine litter is plastic.
- Est' 100 million tonnes.

80% of this plastic comes from the land, 20% from ships/boats, runoff via rivers and sewage outflows

Plastics contain lead, cadmium, and mercury that are toxic to humans and these toxins have already been found in fish in the ocean. Some plastic also contain diethylhexyl phthalate, which is a carcinogen. Many toxins in plastics are directly linked to cancers, birth defects, immune system problems and childhood developmental issues. Plastics also act like sponges and soak up other toxins that might be floating in the ocean and carry them through the food chain as well. Plastic isn't really "disposable" in the traditional sense unless you transform it into something else.

A plastic bottle can take anywhere from 450 to 1,000 years to "biodegrade".

More plastic than fish in the sea by 2050, says Ellen MacArthur - One refuse truck's-worth of plastic is dumped into the sea every minute, and the situation is getting worse. In a business-as-usual scenario, the ocean is expected to contain one tonne of plastic for every three tonnes of fish by 2025, and by 2050, more plastics than fish [by weight]."

The UN has launched an unprecedented global campaign to eliminate major sources of marine litter: microplastics in cosmetics and the excessive, wasteful usage of single-use plastic by the year 2022.

The UN #CleanSeas campaign is urging governments to:

- Pass plastic reduction policies;
- Target industry to minimize plastic packaging and redesign products;
- Call on consumers to change their throwaway habits

What can we do?

- Try to reduce and then eliminate single use plastics.
- Don't put anything other than toilet paper down the loo.
- Try to replace your companies plastic packaging with biodegradable alternatives.
- Do beach cleans, even a 2 minute clean helps!
- Talk about this issue with family and friends

For further information:

www.cleanseas.org

www.plasticoceans.org

A Plastic Ocean – Thursday 6th July at the RNLI College, Poole, starting at 7pm.

Tickets available from: www.rnli.org/plasticocean

6. Fire Prevention Plans - Tessa Bowering: EA

The EA responds to around 250-300 waste fires a year. People have become more aware of the harmful effects of smoke.

The EA have a statutory duty as a regulator to protect the public and environment. Fires cause smoke which is harmful to human health. We believe by taking all appropriate measures, the majority of waste fires can be prevented and those that do occur can be reduced.

Fire Prevention Plan (FPP) guidance has been produced to protect human health and the environment.

The guidance applies to any site storing combustible waste including: waste metal (ELVs and scrap metal), non-hazardous waste, WEEE Storage, biowaste treatment (open windrow, in-vessel composting and dry AD), incineration, paper and pulp etc. The guidance does not apply to: landfill sites, wet AD, biowaste use, hazardous waste (excluding WEEE), dangerous substances under the COMAH Regulations, exemptions etc.

The fire prevention measures in the guidance have 3 main objectives:

- Minimise the likelihood of a fire happening
- Aim for a fire to be extinguished in 4 hours
- Minimise the spread of fire within the site and to neighbouring sites

If a plan is submitted which addresses all these issues the EA will most likely accept it.

A FPP should clearly set out how the operator will manage the site on a day to day basis to ensure that all appropriate steps are taken to prevent a fire and if a fire were to occur that it could be brought under control and extinguished quickly and easily.

There are 18 sections of the guidance to help operators successfully produce a comprehensive Fire Prevention Plan

Main contents sections include:

Fire prevention plan contents (cover all activities, site plan & maps)

Prevent self combustion & manage waste piles

Quarantine area

Fire detection, fire suppression, fire fighting techniques

Water supply, managing fire water

During and after an incident

What makes a good FPP?

One document

Structure follows the guidance

Well planned maps and diagrams

Plain English

Show your working – explain numbers, processes, etc

Plan for worst scenario

Be creative

For further guidance go to www.gov.uk and search for Fire Prevention Plans.

7. AOB

Linda Bunting informed the group of WWOW who are based in Wimborne and are a group of residents who wish to reduce the amount of rubbish in the town. One of their main aims is to make the town disposable coffee cup and lid free. They are running an event in the town on Saturday 22nd July from 10am to 1pm to raise awareness.

8. Date and Venue of next meeting:

Wednesday 6th September 2017, Merley House, Wimborne