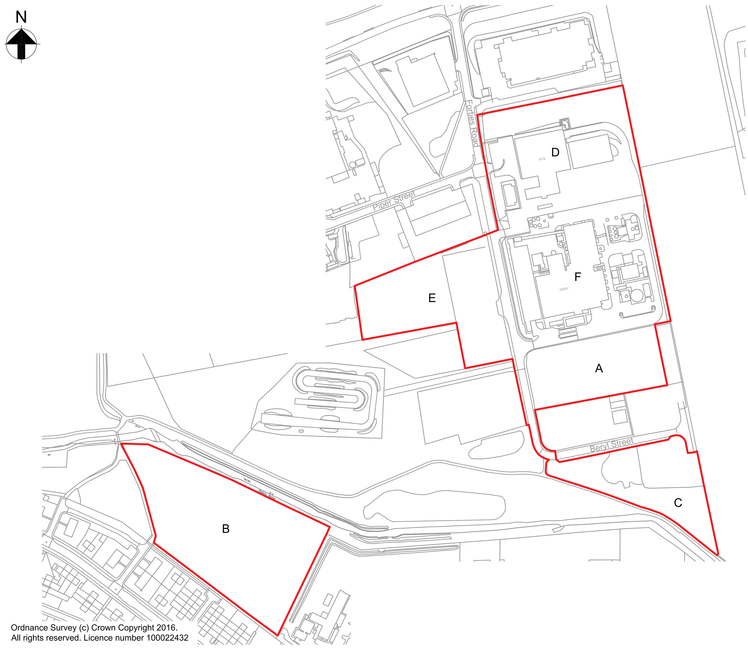
MVV Environment

Welcome to our second round of Public Consultation

Site plan



Dealing with Dundee and Angus' waste

Welcome to this exhibition. We want to update you about the MVV Environment Services (MVV) proposals to make the best use of residual waste produced in Dundee and Angus and inform you of our response to the issues raised in the first exhibitions.

As we set out in June 2016, Dundee and Angus Councils have formed a partnership together and implemented a procurement process, the Dundee and Angus Residual Waste Project, to identify a private sector company that can deal with their Residual Waste (the waste that is left over after recycling). MVV is bidding for the contract and following standard procurement procedures we are in dialogue with the partnership. The procurement process is not yet complete but, under the partnership's timetable, we have undertaken the planning consultation process ahead of making a planning application in October.

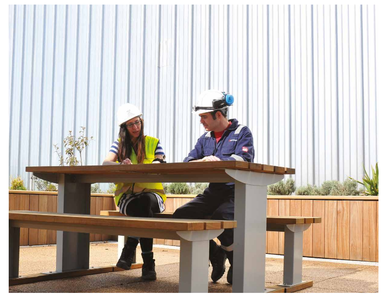
Our discussions with Dundee and Angus councils to develop an Energy from Waste Combined Heat and Power facility at the site in Baldovie, Forties Road are still ongoing. As we outlined in our previous exhibitions the facility would deal with about 100,000 tonnes of waste a year and have a thermal output of about 40MW, providing up to 8MW of electricity and steam. The steam and or electricity could be used to supply the nearby Michelin factory, negotiations for which are ongoing.

All waste handling activities would be carried out inside a purpose-built structure. This will minimise the impact of noise, odour and dust on nearby residents. The plant itself will make use of the best available technology for safety as well as flue gas cleaning. The strict European and UK regulations regarding emissions will be met at the new facility.

A planning application with details of this information from the previous exhibitions and the public feedback will be submitted to Dundee City Council in October and an application to SEPA for an Environmental Permit will be applied for in the following weeks. MVV will make the planning application and Environmental Impact Assessment available on its website.

This exhibition sets out where the proposals now stand following our first round of exhibitions in June and contains key content of the planning application to be submitted by MVV along with important information regarding how the facility will be built and operated. We welcome your views, comments and any questions you may have.

MVV Environment
Who we are



MVV Energie is a German utility group with its headquarters in Mannheim. It is publicly listed and the city of Mannheim owns the majority of the shares.

MVV Energie's core business comprises the distribution of energy, natural gas and water in Mannheim and other cities, the generation of Energy from Waste (EfW) and other energy projects with a focus on renewables like onshore wind power and energy efficiency. With a workforce of 6,100 employees, MVV Energie has reached a turnover of €3.4 billion in 2014/2015.

MVV Umwelt, a subsidiary company of MVV Energie, has over 50 years' experience in building and operating waste management plants in Germany, and is one of the top three companies in Germany in its field. "Umwelt" is the German word for environment, so it operates as MVV Environment Services in Scotland and England.

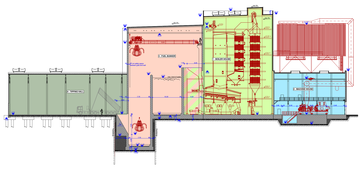
In Germany MVV Umwelt operates five EfW and Biomass plants, treating 1.6 million tonnes of waste and biomass a year. The company currently works with 19 municipalities and districts in five federal states, managing and disposing of the waste of around 4 million people across Germany.

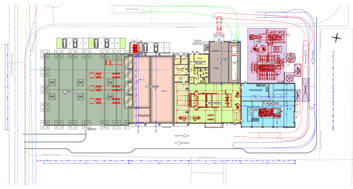
MVV Umwelt's EfW plants typically have Combined Heat and Power (CHP) and district heating schemes, so the company brings first-hand experience of operating high efficiency EfW CHP facilities to the UK. MVV Umwelt is experienced in the fields of design, planning, construction and operation as well as the maintenance of power plants.

MVV has been successful in winning the South West Devon waste contract and in obtaining planning permission and building an EfW CHP facility in Plymouth. MVV Environment has also built and operates a waste biomass plant in Ridham Dock (Kent) and is in the process of developing it as a CHP facility.

Feedback from our first public exhibitions in June

(Left) Cross-section of proposed facility
(Right) Plan of proposed facility





MVV Environment held its first round of public exhibitions for the proposed Energy from Waste Plant at Baldovie in June 2016, and the feedback from both the public and local community groups for these first public consultations was positive.

A large proportion of respondents to the exhibitions made comments about the immense benefit the new plant will bring to Dundee and Angus. The technology available for waste to energy transfer is always improving and developing and using the latest equipment and know how will be a benefit to the city. Following discussions with both councils and a technical assessment, we have decided that DERL should only operate until the new facility is ready to be commissioned.

This will mean that a modern new facility with a lifespan of more than 25 years can be created that will support 37 quality long term jobs. This investment will create a state of the art new facility that is both economical and more efficient than the current arrangements. It will also provide affordable 'green energy' for the adjacent Michelin plant. This represents the best value for the councils, and provides long term employment as well.

Some concerns which were received focussed around traffic, noise, odour and environmental factors. All aspects of operation of the new plant will be as quiet and clean as the latest technology allows and legislation demands.

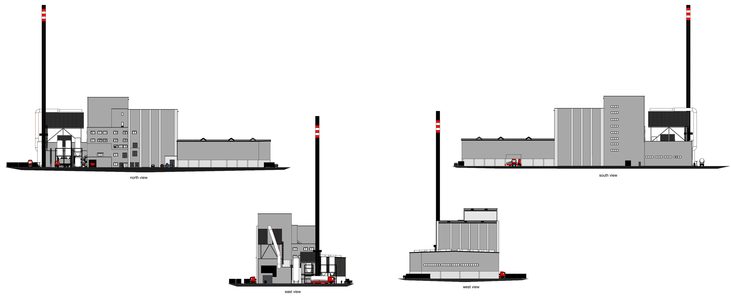
Additionally, the new Energy from Waste plant will not have issues with odour or air quality due to the state of the art, modern technology that will be utilised.

These issues are further explored in more detail in the following exhibition boards.

MVV Environment

An Energy from Waste plant for Dundee & Angus

(Left) Proposed East and North Views
(Right) Proposed South and West Views



Main features of the proposal:

100k tonnes

A high efficiency Energy from Waste plant, with enough capacity to treat 100,000 tonnes a year of Dundee & Angus' residual waste.

100%

This project will divert 100% of Dundee and Angus council's residual household waste away from landfill. In addition we will also divert commercial and industrial waste from landfill.

16,000

The plant will generate heat and electricity at the same time in a highly efficient process called Combined Heat and Power (CHP). It is proposed that the heat will be sold to Michelin at Baldovie, reducing their need for fossil fuel and improving their performance. Up to 8 MW net of electrical energy will be generated, depending on steam demand from Michelin. This is enough electrical energy to supply the equivalent of 16,000 households.

300

Up to 300 people would be would be working at the site during the construction of the facility, it will create 37 quality long term jobs, and create about 70 indirect jobs for the duration of its operation.

£100m

MVV will invest £100 million into the project.

www.mvvuk.co.uk

Traffic/transport

Traffic Data
Measurement Points

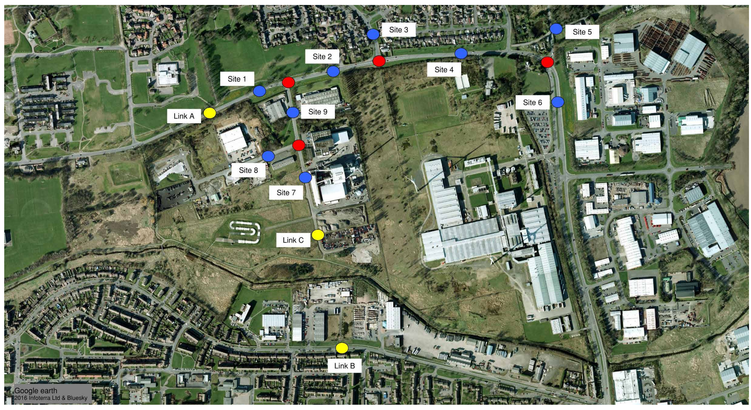


Table 1: Observed Traffic Flows, 2016 (Junction Approach Arms, Weekday)

Site Ref	Location	Direction	7am-10am	4pm-7pm
1	Drumgeith Road	Eastbound	1,257	2,145
		Westbound	2,021	1,281
2	Drumgeith Road	Eastbound	1,144	2,151
		Westbound	1,999	1,183
3	Ballumbie Road	Northbound	393	855
		Southbound	532	524
4	Drumgeith Road	Eastbound	1,300	1,918
		Westbound	1,783	1,396
5	Kellas Road	Northbound	466	1,165
		Southbound	1,329	712
6	Baldovie Road	Northbound	1,058	1,404
		Southbound	1,438	1,473
7	Forties Road	Northbound	93	91
		Southbound	152	23
8	Piper Street	Eastbound	66	64
		Westbound	105	32
9	Forties Road	Northbound	166	152
		Southbound	253	52

Traffic Surveys – Link Counts

Table 2 summarises the 24 hour, two-way link counts at three locations within the vicinity of the development site during an average weekday. These counts were recorded during in February 2016 and are disaggregated by vehicle type.

Table 2: Observed Weekday Traffic Flows, 2016 (24 hour, 2-way Link Counts)

Link Ref	Location	Car	HGV	Total vehicle no.
A	Drumgeith Road	13,103	1,499	14,602
B	Balmoral Avenue	5,039	551	5,590
C	Forties Road	451	130	581

How many Heavy Goods Vehicles (HGVs) will be driving to and from the plant once it has commenced operations?

The anticipated traffic numbers have changed since the previous public exhibitions due to progress on the detail proposals. As a result there will be no increase in traffic seen around the site. An extensive traffic modelling exercise which analyses traffic by type and by time of day will be completed to confirm this. The current estimate for the number of HGV movements once the plant is operational is 96 trips per day, this is a reduction from the 136 estimated when the facilities were to run in parallel.

Which route will those HGVs take?

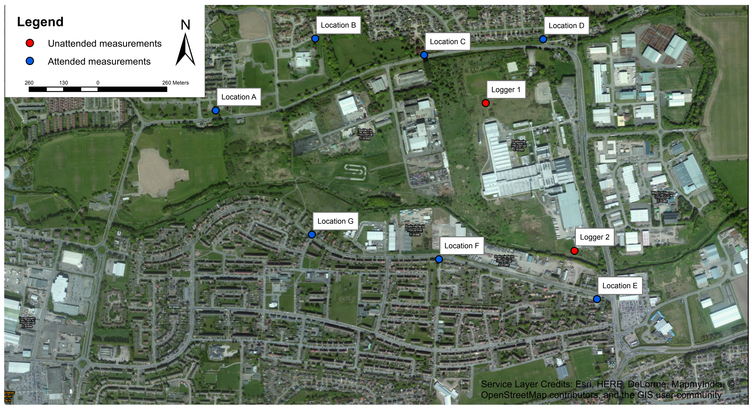
The Drumgeith Road is the main road providing a clear route for transporting waste from Dundee and Angus. However, the actual routes to the plant have not yet been finalised. Much of the waste is currently being transported via Drumgeith Road to the existing DERL facility.

What hours will HGVs operate?

The hours of delivering waste will be discussed with Dundee City Council, and these discussions will consider local conditions, such as school hours and Michelin shift times. At present it is proposed to deliver waste between 07:00 in the morning and 20:00 in the evening. Waste will not be delivered throughout the night.

Noise, Air Quality and Odour

Noise data measurement points



MVV is proposing to deliver an Energy from Waste plant at Baldovie that uses robust, proven technology.

Using 50 years of experience on the European continent and a successful implementation of energy from waste in Plymouth, MVV propose to deliver a plant that will reduce odour, and noise and improve air quality. We are confident that the new state of the art facility will meet all the relevant regulations.

How will the new plant mitigate noise?

The new facility will operate at lower noise levels than the existing facility.

What provisions are in place to ensure Air Quality?

With the new energy from waste facility, air quality should be improved overall as the technology in the facility will be the most up to date and effective possible. EU Regulations place very strict restrictions on emissions which will be fully adhered to.

Will there be any odours from the new plant?

Again improved technology and the most modern plant possible will manage odour issues. Waste will be received in an enclosed tipping hall which is kept under slightly negative pressure in order to keep any odours inside. The same principle applies to the waste storage bunker. Negative pressure will be maintained when the facility is in shut down by a specially designed filter system.

Why have we chosen Baldovie?

Photomontage of proposed Facility from Balunie Drive

MVV believes the Baldovie site offers significant advantages as a waste treatment site. First of all, it has an existing Energy from Waste (EfW) facility, therefore an established use; secondly, an EfW facility can provide cost-effective, environmentally friendly and sustainable heat and electricity for the adjoining Michelin factory, one of Dundee's biggest employers.

There is also potential for an extended heating network for the local area in the future. The proposed site is presently being used by Tayside Contracts to process and recycle highways construction waste and this activity will be relocated to Riverside in the near future. The land is part of the industrial setting of the Michelin facility. There is good access and the site was identified by Dundee City Council as an area for future development. Using the site for an EfW facility with Combined Heat and Power (CHP) also complies with many local and national waste planning policies.

EfW CHP facilities are normally sited in industrial areas of inner cities. For example, in England, the Coventry and Plymouth EfW CHP facilities back onto housing and deliver heat to adjacent users. The Sheffield and Nottingham plants also provide heat to local housing and businesses. In Europe, many plants are situated in the heart of major cities and populated areas with housing nearby, just like Baldovie.

What happens next?

Following this second round of public exhibitions MVV will review the feedback received and in tandem with ongoing discussions with key stakeholders, refine the proposals and submit a planning application for the provision of Energy from Waste plant at Baldovie to Dundee City Council by the end of October.

MVV wants to ensure that the local community has their say on the proposals and consultation will continue throughout the development process. All the feedback following this second public event will enable the MVV to review and shape the final proposals in advance of the planning application being submitted at the end of October.

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Further information

For more information and to provide feedback to the team please contact us:

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