

SWDWP PFI Project

District Heating/Sustainable Energy Opportunities Conference

Project Introduction

Paul Carey

3rd August 2011

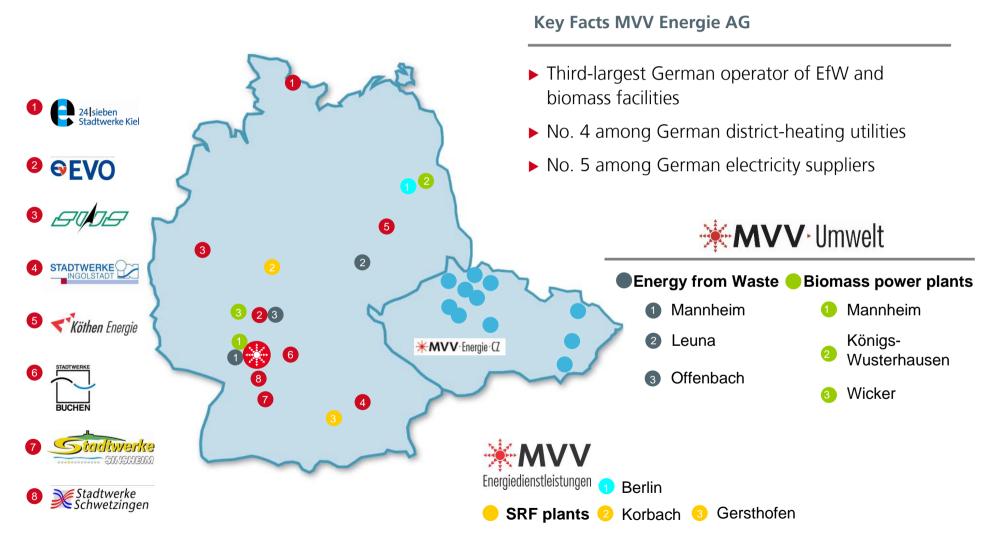


Agenda

- ► Introductions
- ▶ Presentation on MVV's proposal
- ▶ Review of district heating potential
- ▶ Review of housing associations stock condition
- ▶ Alternatives to district heating
- ▶ Information requirements
- ► Future actions

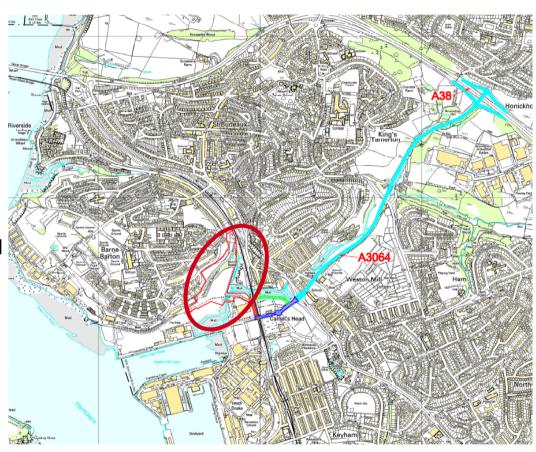


Municipal utility companies and major locations of the MVV Energie Group



MVV's proposals offer a sustainable and deliverable solution for the Partnership's household waste

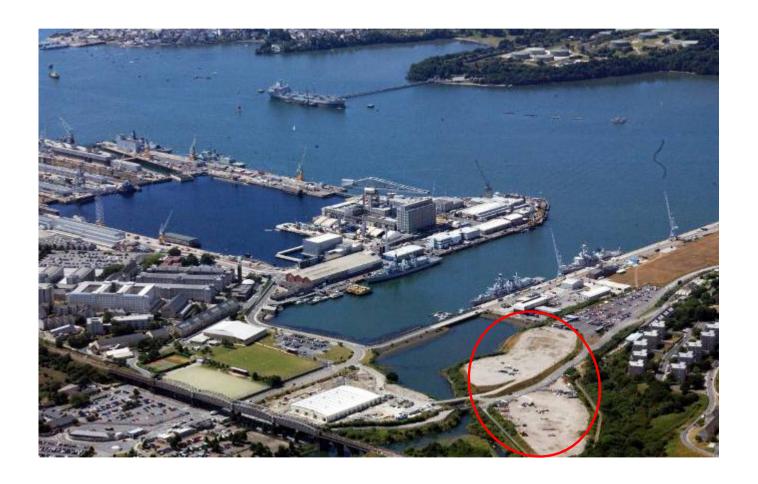
- ▶ 245,000 tpa energy from waste plant
- ► North Yard of Devonport Naval Base
- ► Located in industrial urban context
- Immediate delivery of combined heat and power
- ► Close to major road network
- ► Fits with local planning policies



Site scores highly when the local site assessment is re-run

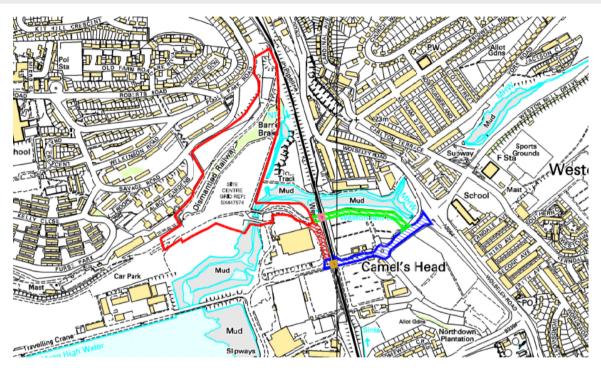


Case Study - South West Devon Waste Partnership HMNB Devonport - North Yard location





HMNB Devonport – access



► Main entrance via Camels Head gate

- ► Immediate access to Wolseley Road and Weston Mill Drive
- ► Separate access outside of MOD secure area
- ► Traffic impact considered minimal

Road access is excellent



The proposed development and compliance with local policies

- ► High level policies strongly support Combined Heat and Power (CHP) Generation derived from Energy from Waste
- Devonport Dockyard site offers significant heat and power demand
- Daylighting, sunlighting and overshadowing
- Site selection in context of original Waste DPD
- ► Fit with national and local policies
- Mitigations include off site landscaping and management of Blackie's Wood



Supports the waste hierarchy and its objectives



The planning application: what does this all include?

- **▶** Covering letter
- ► Planning application forms and supporting statement
- Drawings
- ► Environmental assessment
- Appendices
- ► Non-technical summary





Covering letter and planning application





PLANNING AND REGENERATION SERVICE

Tel: 01752 304366 Email: planningconsents@plymouth.govuk: www.plymouth.gov.uk/planning

Application for Planning Permission. Town and Country Planning Act 1990

Publication of applications on planning authority valuation.
Place rate that the information provides in the application form and in supporting documents may be published on the Authority's valuate.
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Planning Application Supporting Statement - Contents

1	Planning Application	1
2	The Planning Application and Accompanying Documents	9
3	The Main Planning Considerations	. 17
4	The Application Site	. 25
5	Details of the Proposed Development	. 32
6	Planning Policy	. 66
7	Need	. 86
8	Sustainable Development	. 88
9	Environmental Effects and Amenity Impacts	. 96
10	Summary of Supporting Documents	111
11	Compatibility with the Development Plan	121
12	Conclusions	145



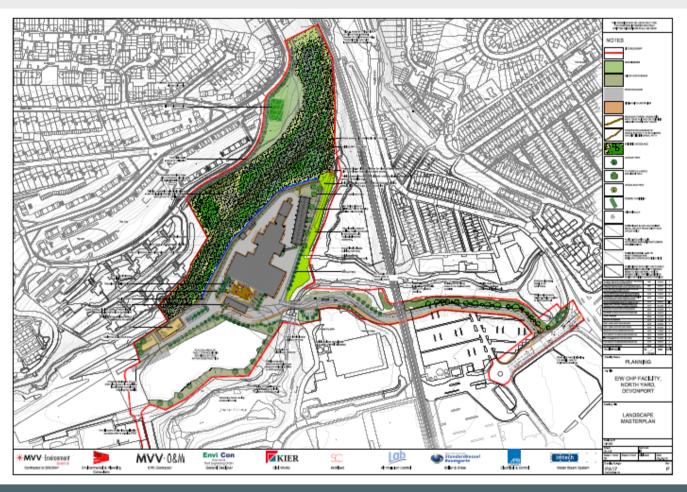
The PASS has eight supporting appendices

- Design and Access Statement
- **▶** Statement of Community Involvement
- ► Climate Change and Sustainability Statement
- Energy, Economy, Employment and Education Benefits
- Health and Well Being
- ► Habitats Regulations Assessment
- ► Planning Policy Analysis
- Section 106 Heads of Terms





There are 40 drawings



8 volumes; 3000 pages



The Environmental Statement is the result of the Environmental Impact Assessment

- ► Legal requirement to set standards
- Responds to PCC Scoping Opinion issued in 2010
- ► Main text
- **Figures**
- Appendices
- ► Non-technical Summary
- Confidential Badger Method Statement





Environmental Statement: Contents

Part A: Context

- 1 Introduction
- 2 EIA Legislation and General Methodology
- 3 The Need for the Proposed Development
- 4 Land Use: the Site and Surrounding Area
- 5 Alternatives to the Proposed Development
- 6 Description of the Proposed Development

Part C: Conclusions

20 Summary

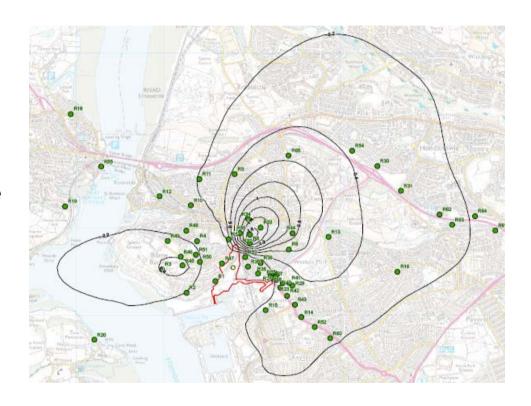
Part B: Assessment

- 7 Ecology and Nature Conservation
- 8 Landscape and Visual
- 9 Cultural Heritage
- 10 Contamination: Land and Water Quality
- 11 Hydrology, Hydrogeology and Flood Risk
- 12 Traffic and Transport
- 13 Air Quality
- 14 Noise and Vibration
- 15 Construction Waste
- 16 Daylight, Sunlight and Overshadowing
- 17 Socio-economics
- 18 Health and Wellbeing
- 19 Inter-relationships and Cumulative Effects



Environmental Statement - conclusions

- ► Air quality emissions are well below the limits allowed
- ► Traffic no significant impact and no requirement to modify Wolseley Road junction
- Noise within acceptable limits for noise at night, no problems with noise during day
- Health and Well Being no significant impact on health
- ► Contamination no significant impact



Apart from visual there is minimal adverse impact



Environmental Statement - conclusions

- ► Daylight, sunlight and over shadowing no significant impact
- Visual impact significant impact on nearby properties, additional landscaping required
- Sustainability improvement
- **▶** Ecology no significant impact
- ► Others no significant impact



Apart from visual there is minimal adverse impact

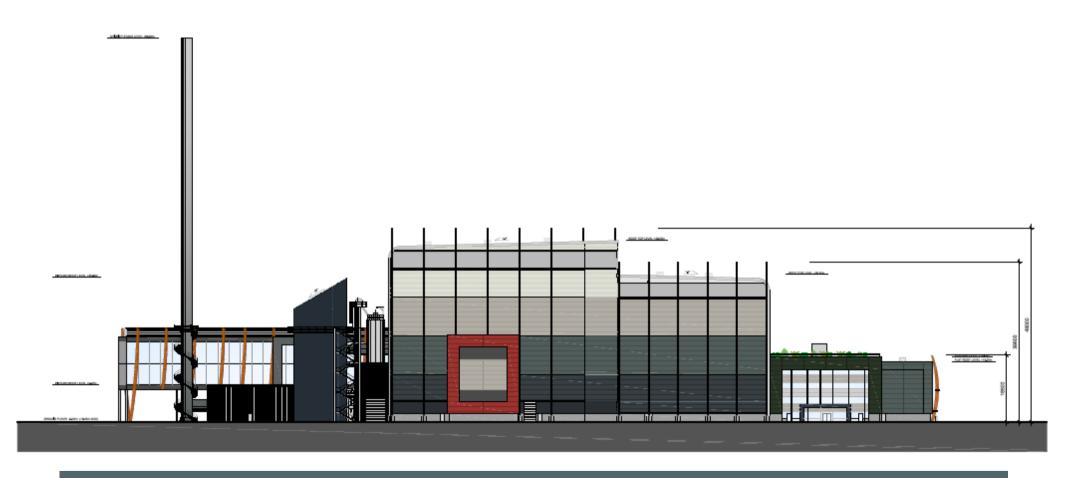




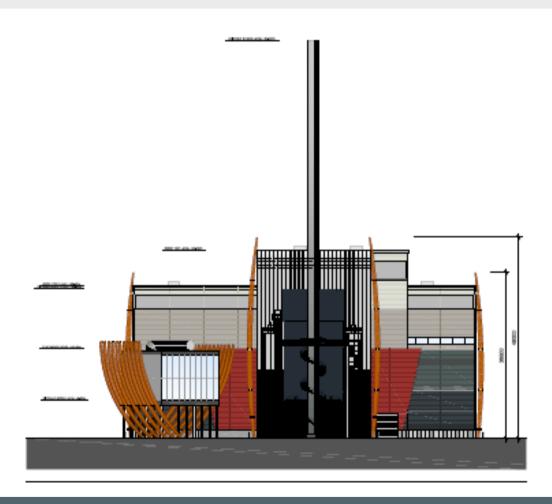






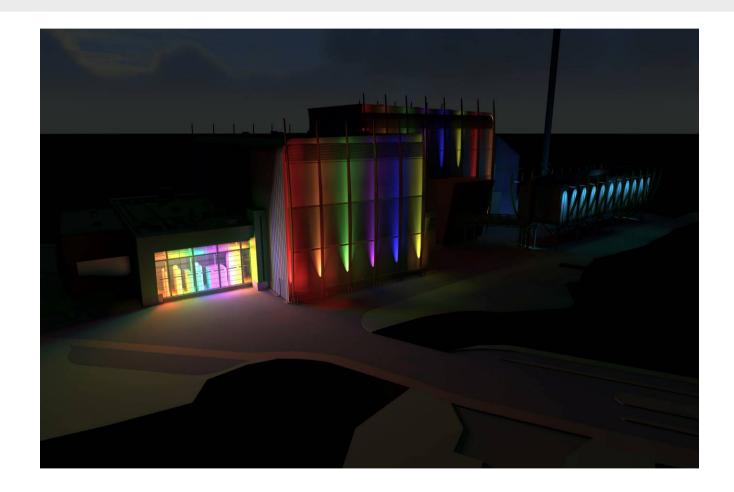








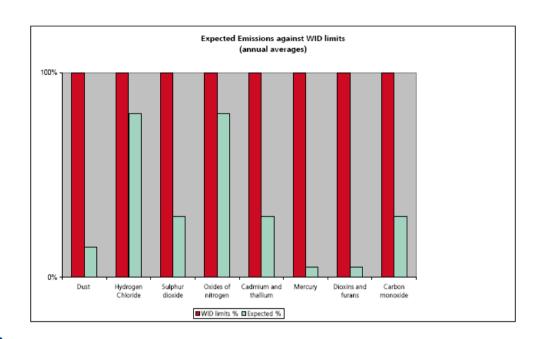
Night time lighting





Benefits - environment

- Guaranteed 97% waste diversion from landfill
- ► Expected close to 100% diversion
- ► Facility will save over 70,000 tonnes of carbon dioxide equivalent per year (equal to 28,000 cars)
- ► The Naval Base will reduce its emissions and carbon footprint by using EfW green energy
- MVV's emission levels will be continually monitored and below the safe levels set in the Waste Incineration Directive (WID)

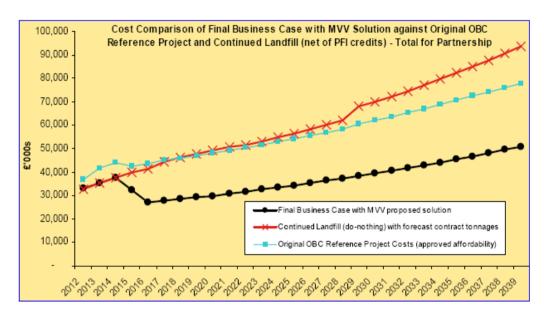


There are significant economic benefits for several stakeholders



Benefits - economic

- ➤ At SWDWP projected tonnages MVV's solution will cost £436m (£389m less than OBC estimate)
- ▶ Defra is also providing PFI credits worth £177m over the life of the contract to SWDWP
- Compared to landfill SWDWP saving is £675m
- ► MOD are estimated to save at least 20% through purchase of MVV's energy
- MVV's solution will also provide jobs and local waste disposal for businesses



There are significant economic benefits for several stakeholders



Benefits - economic

	SWDWP in total £m	Plymouth City Council £m	Torbay Council £m	Devon County Council £m
Reference Case estimate (single EfW facility with updated tonnage including tonnage previously assumed to landfill added into Contract Waste)	824.9	404.7	134.9	285.3
MVV's solution cost at Contract Close	436.0	212.2	71.4	152.5
Estimated financial benefit of MVV's solution over Reference Case	388.8	192.5	63.5	132.8
PFI Revenue Support Grant	177.0	82.9	29.3	64.8

There are significant economic benefits for several stakeholders



Benefits - energy

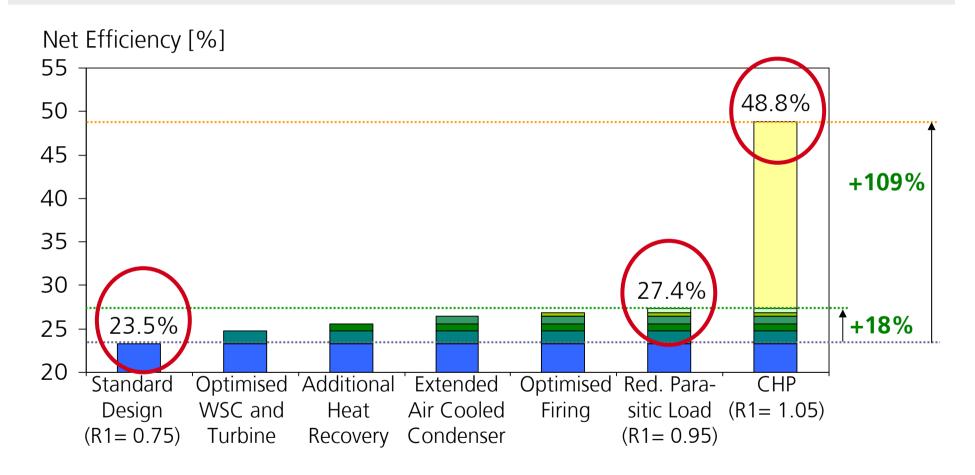
- ▶ Produce significant usable energy 50% of which is classed as 'green'
- ► Provide for Naval Base's electricity needs as well as surplus to the Grid
- Provide Naval Base's heating needs with existing heating boilers put on standby
- Potentially extend a district heating network into Plymouth
- Achieve very high energy efficiency levels at all times



With or without heat, MVV's proposals are very efficient



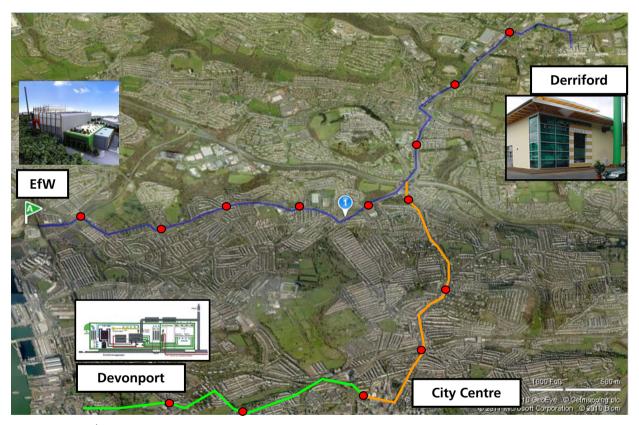
MVV will achive the highest possible efficiencies



With or without heat, MVV's proposals are very efficient



With MVV district heating is a real possibility



pump stations

MVV will take part in PCC's district heating procurment excercise



Benefits – employment and education

- ► Up to 300 jobs during construction
- ▶ 33 full time jobs in operation
- Approx 70 secondary jobs with operations subcontractors
- ► Training opportunities for university and college students
- **▶** Other support for students



Relationships and trust will be established early on



Benefits - community

- ► Community fund of £52,000 per annum covered by Section 106 agreement
- **▶** Community use of Visitor Centre
- ► Improvements to Blackies Wood
- ► Improvements to Weston Mill Creek
- ► Play area on Savage Road
- Additional landscaping
- ► Full time Community Liaison Manager employed by MVV
- Sustainable energy improvements in the immediate locality?



Relationships and trust will be established early on



Consideration of the application is well underway

- Incinerator Liaison Committee set up in May
- ► MVV want the ILC to be a central plank to its outreach to the community
- Copies of planning application in MVV's offices, Civic Centre and libraries
- Application down loadable from MVV and PCC websites
- ► Free copies of Non-technical Summary
- ▶ Public exhibitions from 7th to 16th June
- Comments invited; questions will be answered
- ► Regulation 19 letter issued 1st July



Community benefits and mitigation measures under a Section 106 agreement are key

