



THE JOURNEY OF TURNING A DREAM INTO
REALITY

TURNING HOUSEHOLD
WASTE INTO
ELECTRICITY AND HEAT
MOVING FORWARD AND
USING THE ENERGY
BETTER

THE CHANGE CHALLENGE

All infrastructure post-PFI returning at end of life condition in 2015

Active landfill and windrow composting sites transferred to PFI operator in ownership

No new government infrastructure funding

Constrained sites

Requested to save £1m from existing budget in procurement

Required new infrastructure | new targets | better use of energy and resource management

Desire to learn, change and grow a more sustainable island service



THE JOURNEY

Changing the face of waste and recycling on the Isle of Wight



2011 Waste collections
£3.2m annual budget

- Kerbside collection of Household Waste
- Collection of Schools Waste & Council Waste
- Bring Banks – Glass, metal etc



2011 Recycling service -
£1.45m annual budget

- Operation of Resource Recovery Facility (RRF)
- Bulking and shipping of Dry Mixed Recycling



Disposal service - £5m annual budget (including landfill tax)

- Composting of Green Waste
- Operation of 3 Civic Amenity Sites
- Residual waste treatment
- Landfill of non-treatable or non-recyclable waste

THE PATHWAY

1 Strategy

An island strategy for sustainable long-term waste management. Technical solution open to the market driven by:

- Affordability
- Deliverability
- Financial Stability of Contract Term
- High Performance Requirements
- Service Excellence for the community

3 Targets

- 90% diversion from landfill of all LACW
- 60% Recycling/Composting all LACW
- 85% recycling from HWRCs and CRWC

Annual affordability no more than £9m in 2015 pricing each contract year

2 PPP financing new infrastructure

Procurement required financial evaluation to stay below £9m; real terms to include:

- capital payments and repayments of any proposed borrowing within proposed contract term
- guaranteed income from electricity sales and recyclate sales, Trade and Commercial waste
- no pass through costs other than NNDR
- milestone programmed for capital works

4 Deliverability

PCG key to partnership delivering infrastructure

- Strong SOPC4 project agreement
- 500+ performance measures

THE SOLUTION

- A key part of achieving a £1m saving per year is reducing the amount of recyclable and compostable waste in general waste
- Our aim was to increase recycling rate to 60 per cent by 2020, to reduce the amount of money being spent on sending household waste to landfill.
- Improvements in recycling technology available through our waste providers, Thalia Waste Management, technology, such as the recycling of shredded paper and tetra packs, means residents can recycle more materials than previously.
- Weekly food collections also contribute to increasing recycling and composting, reducing the amount of black bag waste per household.



**THE
MOVING
FLOOR**

FORREST
PARK
RECOVER
Y
FACILITY





TWIN STREAM MECHANICAL TREATMENT

Operating since August 2019, the mechanical treatment plant is unique in its twin stream function.

Processing split shifts to sort and bale HDPE, LDPE, PET, Ferrous, glass, non-ferrous, Tetrapac, paper and card fractions from dry mixed recycling and then from general waste

Only combustible non-recycling processed to become RDF, dirty metal and plastics achieving good space in the commodities markets

HOUSEHOLD WASTE TO POWER

The waste plant, based centrally in Newport, treats both non-recyclable waste and recyclable waste on the same site. It also features a stage of the art waste plant, which aims to generate power for up to 5,000 homes.

The need to deliver this substantial change has not diminished over the last few years. Indeed, due to the climate crisis the need for action is more pressing than ever.

- We are focused on meeting the sustainability and environmental challenges, providing a cost-effective, comprehensive waste and resource management solution, while creating a brighter cleaner future



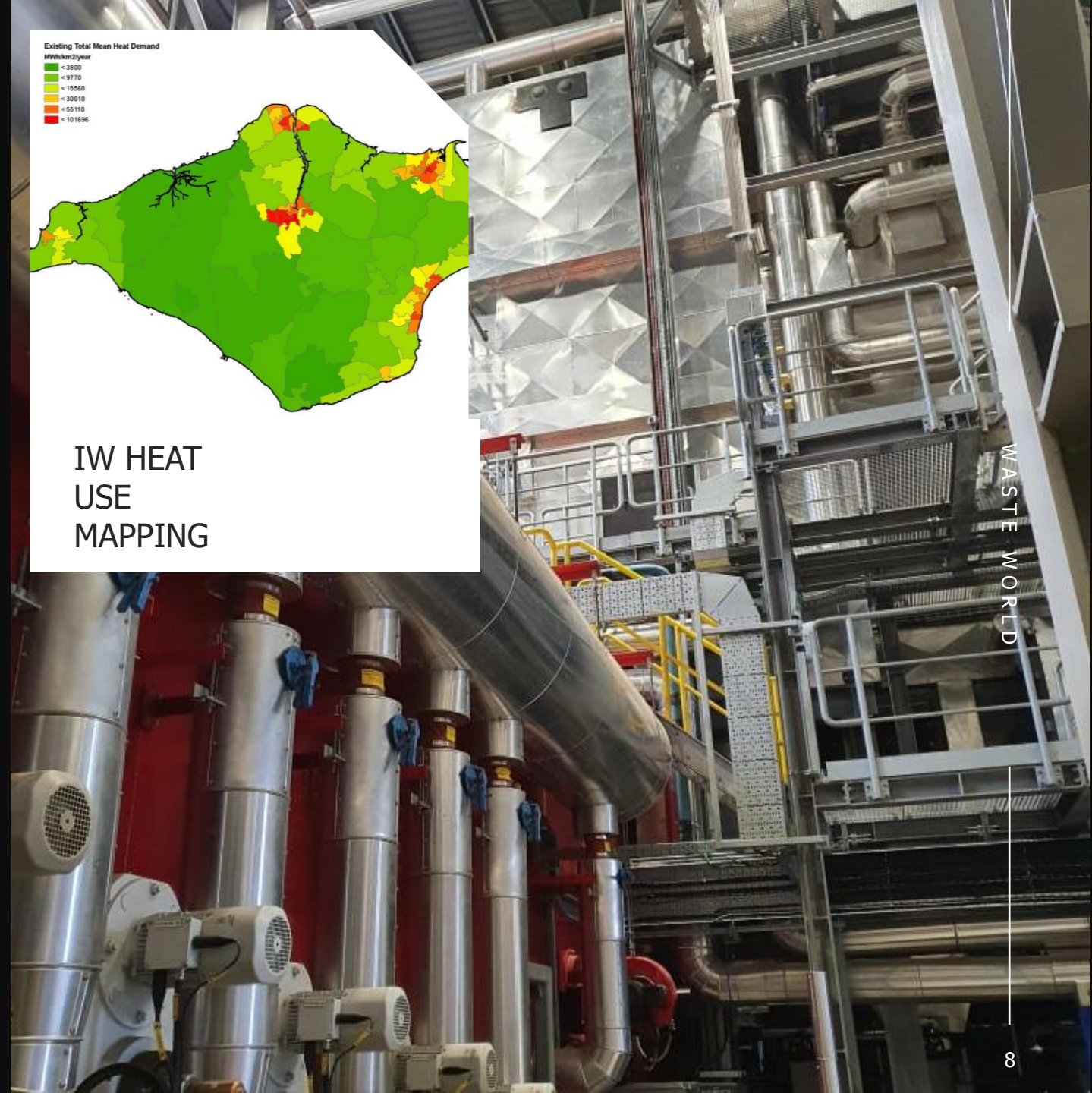
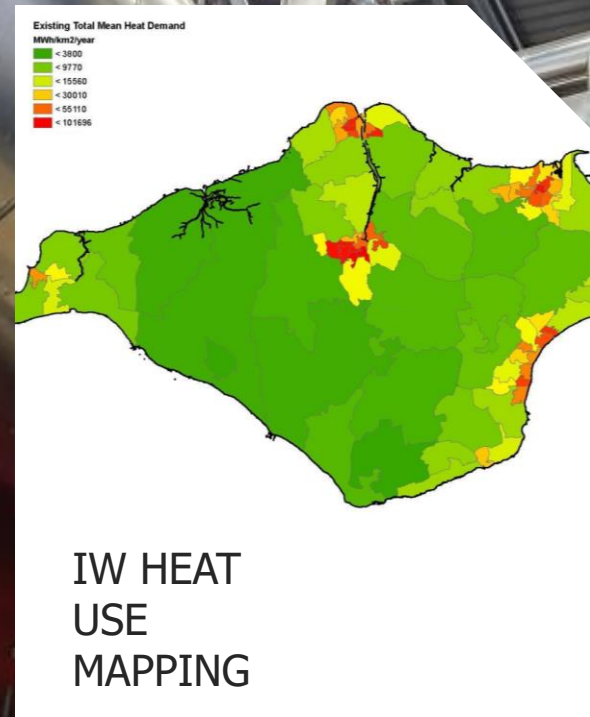
OUR HIGHLY EXPERIENCED WASTE TEAM, SUPPORTED BY OUR WASTE SERVICE PROVIDER, HELPS RESIDENTS AND BUSINESSES ACROSS THE ISLE OF WIGHT TO MAKE SURE WASTE IS SEEN DIFFERENTLY AND HOW TOGETHER WE CAN DRIVE THE FUTURE OF WASTE, TURN IT INTO POWER, WHILE ENCOURAGING EVERYONE TO INVEST IN REDUCE, REUSE, RECYCLE AND RECOVER.

USING ENERGY BETTER

Thanks to the dedication of the Isle of Wight residents and hard work of our waste teams, operational crew, recycling centre staff and waste workers, the Isle of Wight continues to be a top recycler nationally.

Future use for energy from waste is endless, the whole Island can benefit from the power we produce, from self-sufficiency within the plant, to potential partnerships with local hospitals, prisons, and electrical vehicles or fleet.

Using energy from waste we can confront the challenges and support the many opportunities that a net-zero and resource-efficient future presents, and we look forward to working with our industry colleagues and decision makers to deliver a better future.





CONTROL ROOM



LIGHT & HEAT IS ENERGY



FOREST VIEW



THANK YOU

