

A Deliverable Waste Strategy for Doddington



THE PROBLEM

Landfill sites
are reaching
capacity,
hurting our
community, and
hampering
waste potential

1,500 tonnes

Maximum permitted landfill
(2039/40)

31.20%

Current recycling rate

£130.75 / tonne

Current landfill tax rate,
expected to increase



THE SOLUTION

All waste to be diverted from landfill by 2031



Advanced
sorting with AI
integration to
maximise
recycling rates



Optimised
incineration
of residual
municipal
waste



Energy
generation
equivalent to
powering
20,000
homes

THE SOLUTION

How we plan
to *maximise*
recycling,
and *minimise*
landfill



Waste
Delivery



Manual
Sorting



Metal
Separation



Ballistic
Separator

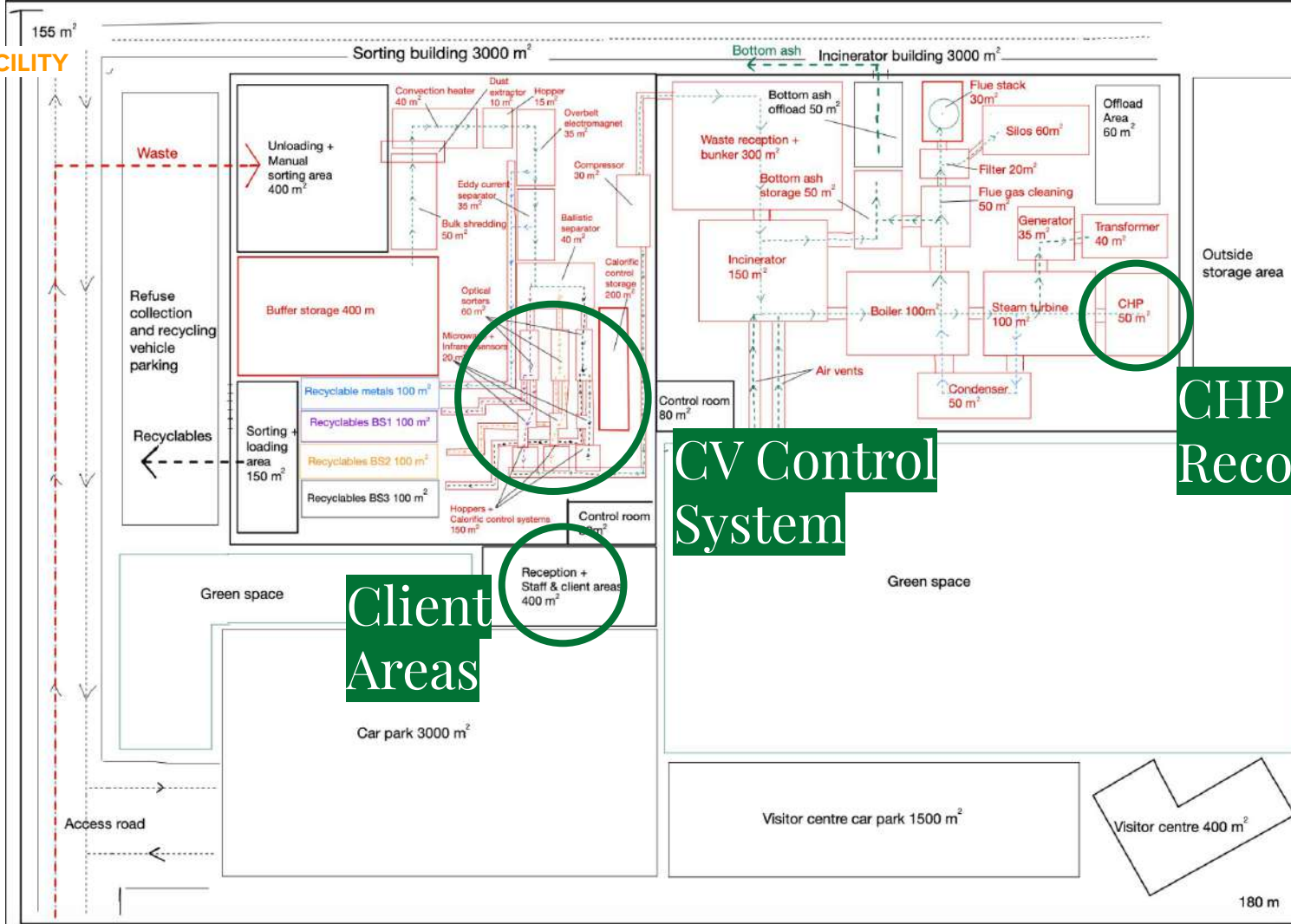


Optical (AI)
Sorting



Incineration &
Ash Clearance

THE FACILITY



Client
Areas

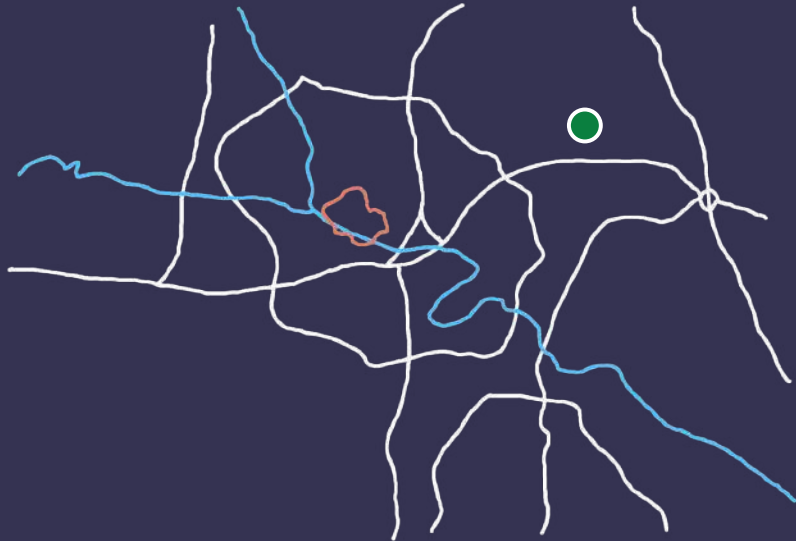
CV Control
System

CHP Heat
Recovery

SITE SELECTION

Our site selection is risk-averse, allowing us to settle in *seamlessly*

Angrypool



Low, **unambiguous** costing



Existing **industrial** area



Excellent accessibility



Minimal community impact

KEY DATA

Efficient.
Feasible.
Effective.

0%

total waste sent directly to landfill by 2031

75,000

tonne/yr capacity EfW facility

>65%

recycling rate by 2031

15-21 MW

total electrical and thermal energy
generation

Our plan forecasts
operationality
on time.

Jan 2026

project commencement

Aug 2027

construction begins

Oct 2029

EfW facility operational

April 2030

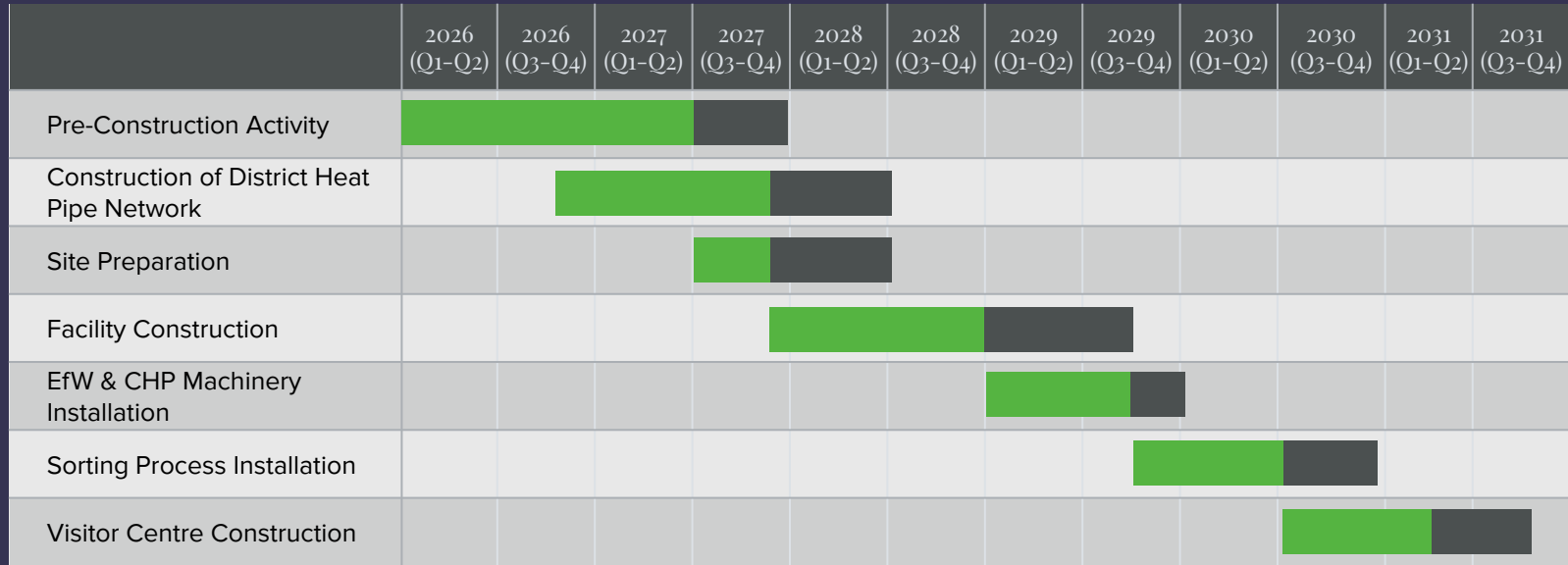
entire facility operational

July 2030

commissioning date

KEY DATA

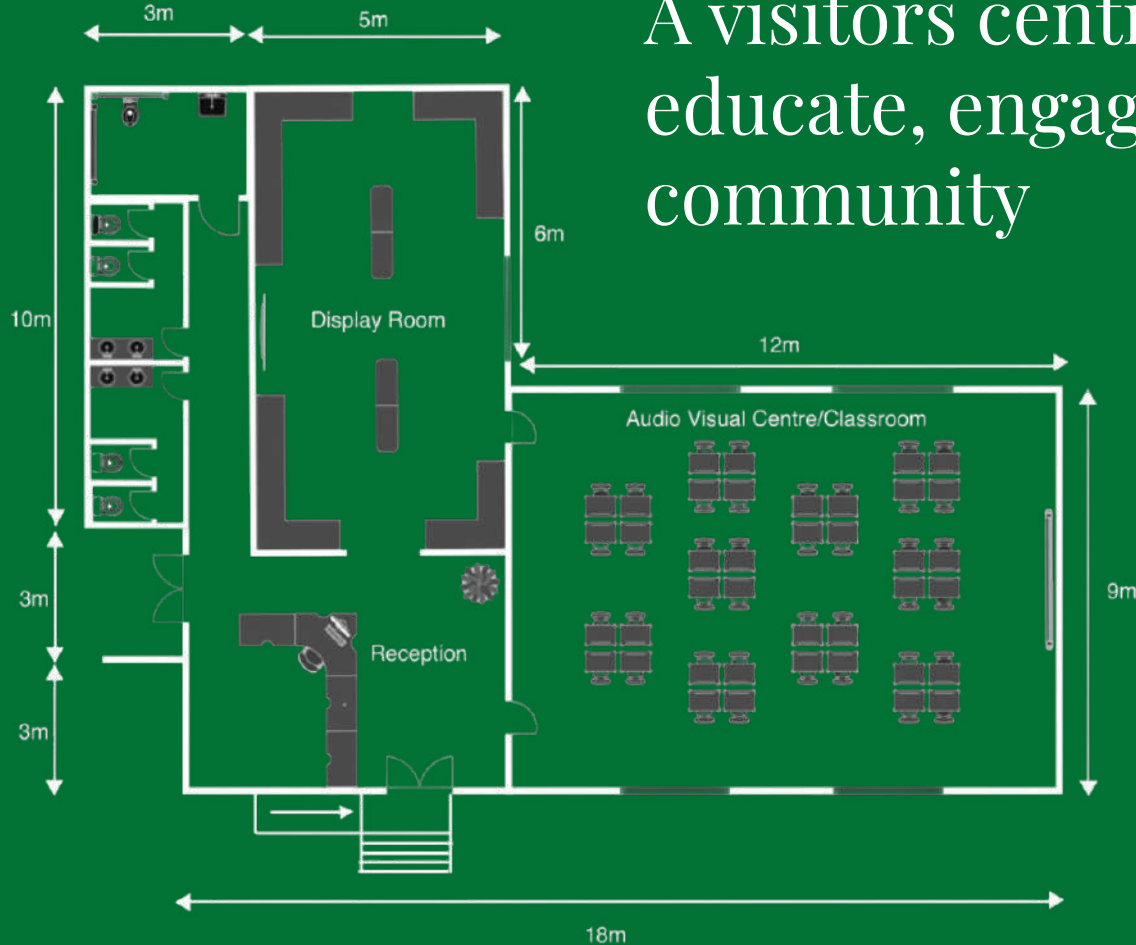
Our project delivery timeline is *feasible*, and plans for punctuality *and* managing setbacks



Projected

Contingency

THE FACILITY



A visitors centre designed to educate, engage, and inspire our community



Multi-purpose, 40 person classroom with advanced AV systems



On-site access and guided tours



Accessible for all

THE SOLUTION

How are we managing the new government immigration policy?

Designed for automation and low long-term labour **before** the government policy announcement - our solution is already resilient under new immigration and workforce laws.



Apprenticeships

Apprenticeship pipeline fits national policy shift



Modularity

Modular construction mitigates increased construction time



Reliability

No reliance on foreign skilled labour imports (e.g. gasification/pyrolysis)



Automation

Low OPEX variation through low-labour automation

We ensure that sustainability is a *core* value

Advanced material sorting removes a minimum **65%** of recyclables from the waste stream

**Encompassing
Front-end
Recycling**

**Complete
Cleaning of
Flue Gas**

8-stage emission cleaning process to protect our air quality and meet **EA standards**

Incinerator bottom ash will be sold and **repurposed** for use as a construction aggregate

**Repurposing of
Incineration
By-products**

**Environmental
Impact
Assessments**

Regular reports to **adapt and improve** our processes

SUSTAINABILITY

A numerical view on our sustainability

100% COMPLIANCE

WITH ENVIRONMENT REGULATIONS

Our cleaning system adheres to Environment
Agency regulations of toxin release

MIN. 65% RECYCLING

OF ALL HOUSEHOLD WASTE

Our state of the art sorting systems remove
nearly two-thirds from the waste stream



40% LESS EMISSIONS

COMPARED TO LANDFILL

Our system reduces greenhouse gas
emissions compared to landfill disposal

98% LESS LAND USAGE

COMPARED TO LANDFILL

Doddington landfill occupies est. 350
acres compared to the facility's 7 acres

A MODULAR BUILD APPROACH PROVIDES THE OPPORTUNITY TO EXPAND

Changes in population and waste management needs are inevitable. Additional flue gas cleaning modules, waste sorting units, and incineration chambers can be added if required

FINANCES

Payment Structure

£558 Million

Total Project Cost



£9 Million

Cost to the Council p.a.

PFI agreement between HDL Croft and Doddington City Council to ensure quality delivery of service without undue risk to the taxpayer



HDL Croft-Led Investment Consortium

Initial capital expenses partially raised through private equity funding round



Profit Sharing

30% shared with council once site begins to make annual profits



Extended CapEx Payment Scheme

Lower council and private investment required resulting from longer equipment payment windows

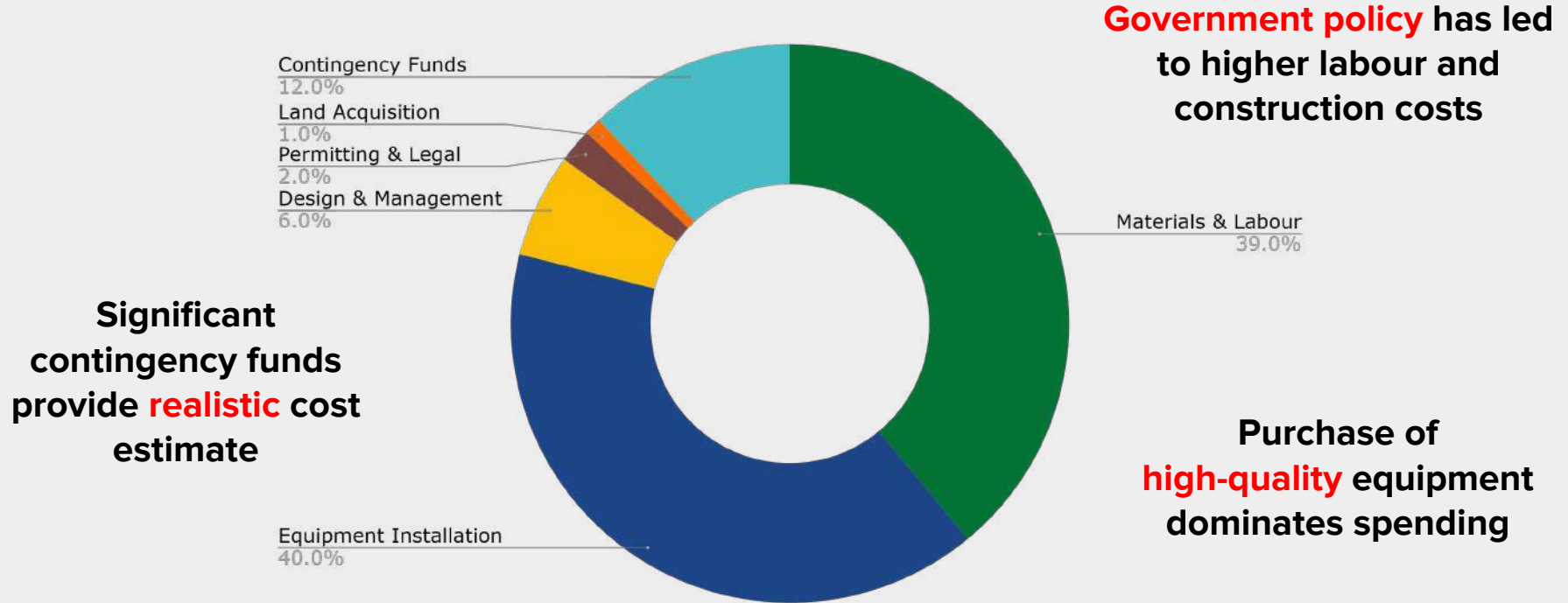


Guaranteed Future Site Investment

Replacement or refurbishment of equipment prior to handback and addition of promising technologies

FINANCES

CapEx: £76 million private investment contributing to £190 million total cost



What are the sources of revenue and expenditure during operation?

Trained Staff

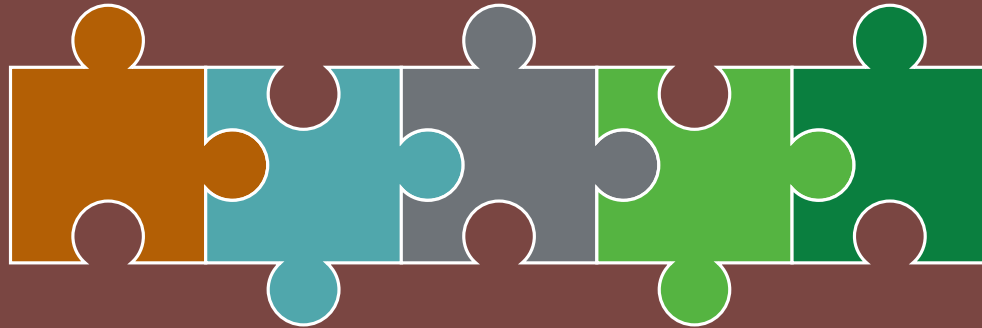
Up to 50 full time staff members required

Running Costs

Operations, maintenance, and wages

Apprenticeships

10 apprentices at any given time



Power Generation

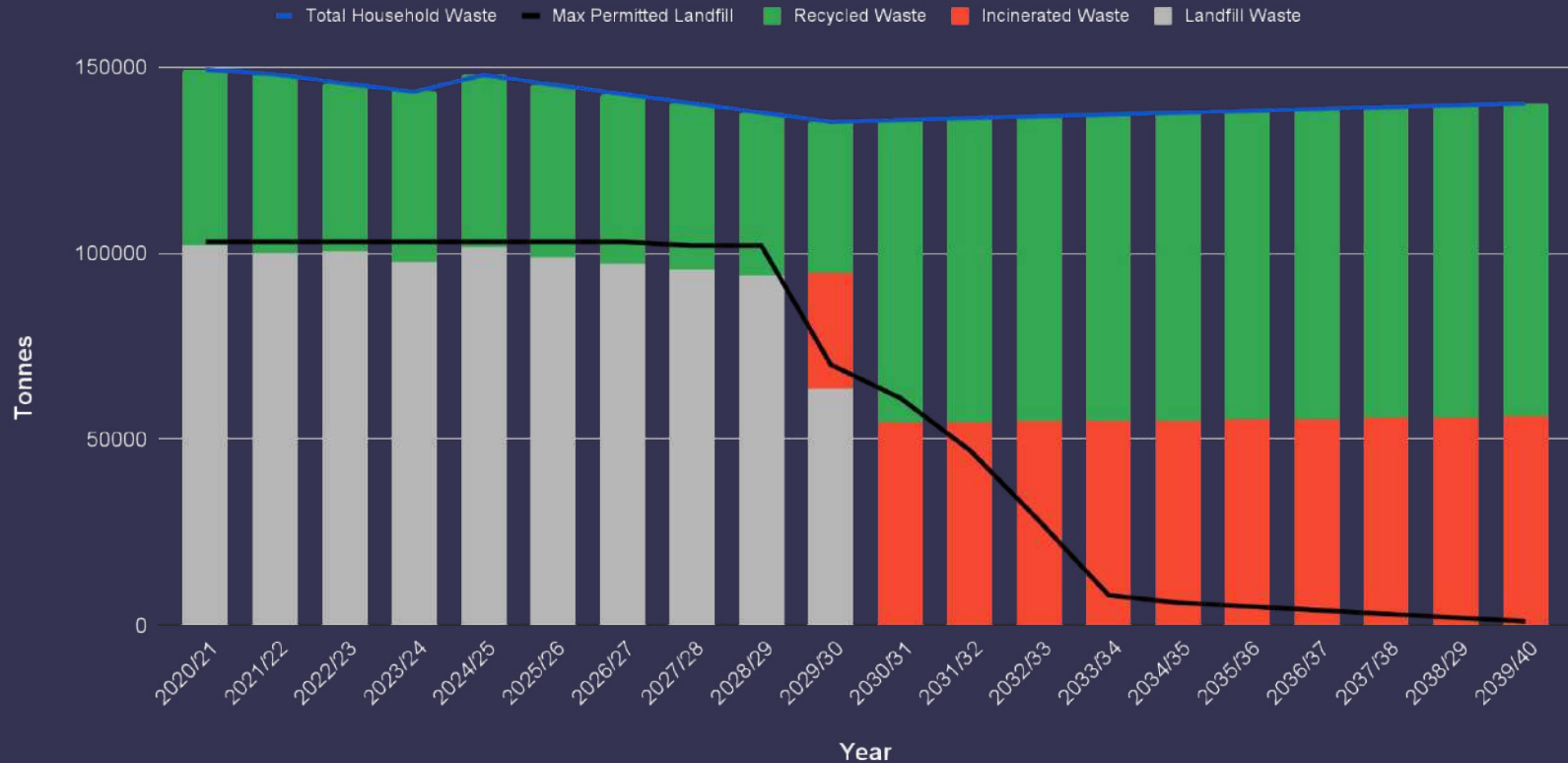
21 MW electrical / thermal power output

By-Products

Recyclables and bottom ash sale and removal

KEY DATA

Projected Waste Management Performance and Compliance with Landfill Limits (2020-2040)



Cumulative Savings of
£105 Million

Across 25 Year Tender Period

Conservative Estimate of Landfill Tax Savings

SECURITY

Mitigating risks to maintain safety and efficiency is key to HDL Croft's vision



Health and Safety

Specialised H&S coordinator overseeing construction and operation



Site Security

CCTV systems, site-enclosing fence, and a 24/7 security team prevents trespassers



System Failure

Continuous monitoring of equipment performance enables preventative measures



Disaster Events

Full disaster recovery plan lays out response protocols to fires, floods, and failures

SUMMARY

HDL Croft provides the *lowest-risk*, *highest-value* pathway – and one that remains *fully achievable* under the new national constraints



Sustainable initiatives



Resilient to political change



Cost-effective



Delivery on time

