

Meridian Water Environmental Sustainability Progress Update

Environment and Climate Action Scrutiny Panel 12th October 2021







Three overall themes



Meridian Water Environmental Sustainability Strategy

V1. September 2020



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Carbon Positive

Carbon neutral development by 2030





Environment Positive

Public open space

30%





Zero Waste & Circular

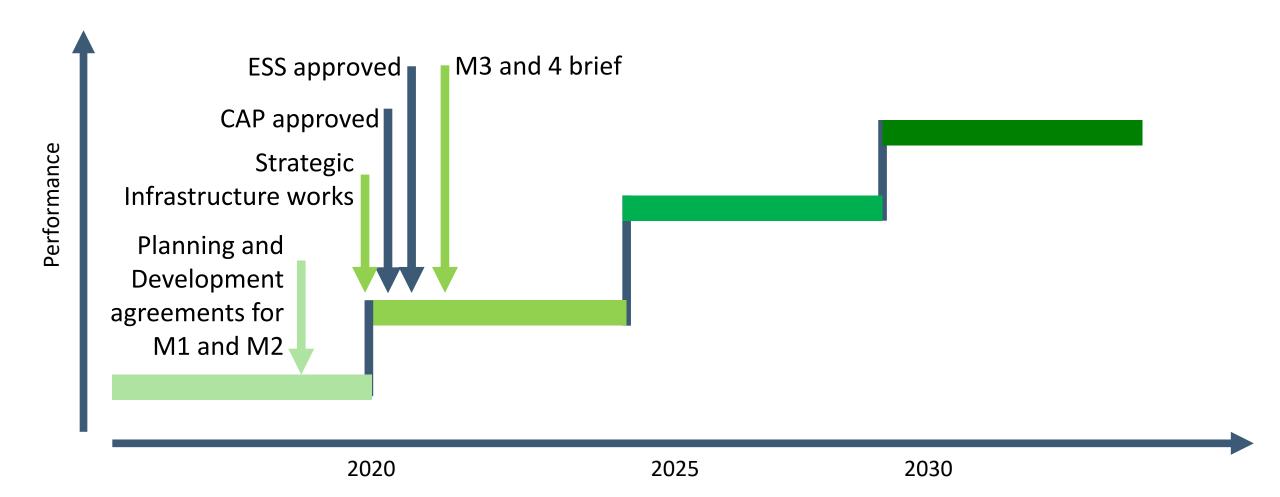
Recycled, natural or local materials 30%





The background: Providing a long term roadmap

- Long-term project with a long-term climate and sustainability vision
- Ambition steps up every 5 years 2020, 2025 and 2030
- In line with regulation, technology and behaviours



Environment positive



Continuous green & blue networks 30% Public open Space 30% Tree canopy coverage 50% Green roof coverage Radical increase in Biodiversity Water Sensitive Design Resilient, high quality microclimate Low Pollution Naturalisation of Pymmes Brook A new emerging masterplan



















Climate Positive



Low energy use
Low carbon energy supply
Low embodied carbon materials
High impact carbon offset
Low carbon consumption
Low carbon transport
Active travel network

















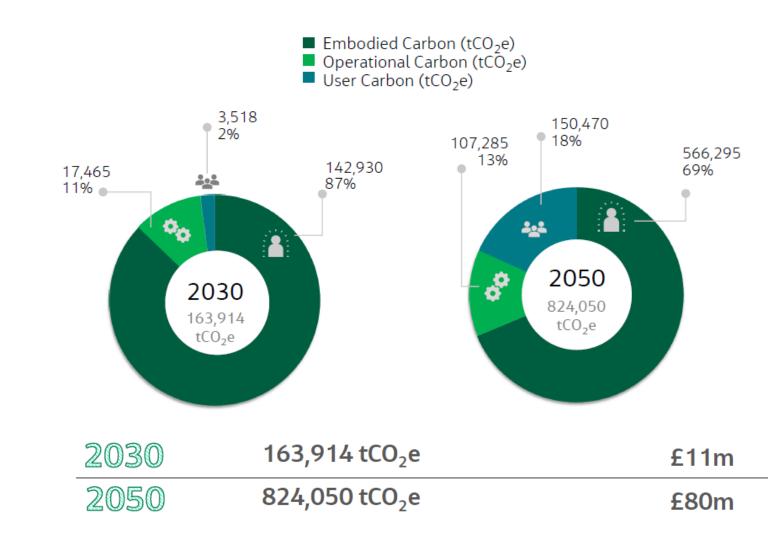






Carbon emissions from building homes

- Embodied Carbon are the emissions to make buildings and building materials
- This is the biggest factor even with everything working according to the ESS
- Nearly 70% of the carbon by 2050 will be from constructing the buildings
- Re-using materials and components helps
- Making materials locally helps



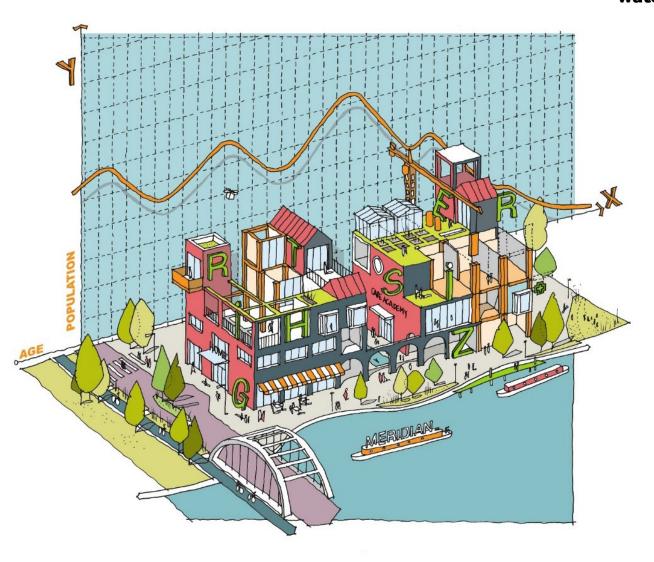
Can we change construction for the better?



The 'rightsizer' is a pilot project

- Re-using materials
- Re-made locally in Enfield
- Re-using columns, walls and floors after first use
- Making flexible spaces for families to growo and needs to change
- Accessible for SMEs





Zero Waste and Circular



Use less resources
Use local resources
Create London's circular
economy innovation hub
Design out waste
Value re-use
Recycle more























Recycling in taller buildings

meridian water

Design focus

- Recycling provision in homes
- Bin stores feel clean and safe, well lit, bright Information

Operation focus

- Well managed spaces
- Compatible with any fleet upgrades

Community Focus

- Residential User journey less doors, easy access
- Information, incentives, behaviour nudges, engagement









Progress since October 2020 – Meridian One



- Vistry now using Hydrotreated Vegetable Oil (HVO) instead of diesel
- One of the first uses of flywheel energy storage for cranes on site in the UK
- Using a compliance tracker collecting all issues in the Development Agreement, Planning criteria and Design Code, for agreement before 1b planning submission.











Meridian Four

- ESS used from the start
- Team focussed on meeting requirements rather than deliberating.
- Some of the best consultants in the UK have won bids to work with us.
- A data capture system saving consultant costs





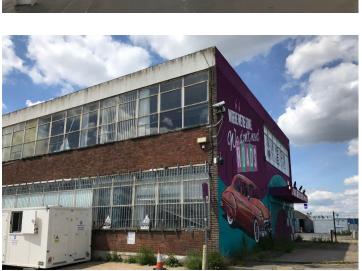




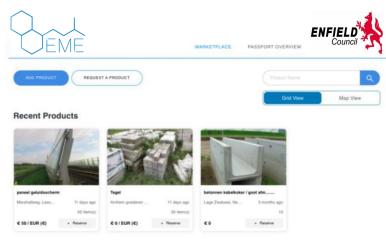
Meanwhile projects

- Building BloQs re-using existing buildings
- Heating from waste wood from workshop
- Troubador bringing buildings from elsewhere
- Excess Materials Exchange (EME)
- A 'dating site' for re-used materials – bringing dismantling and design together.
- A pilot for all of Enfield
- We think it's a first for a UK Local Authority

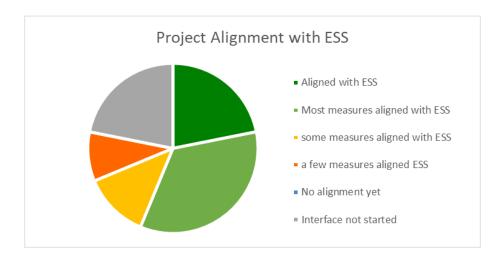


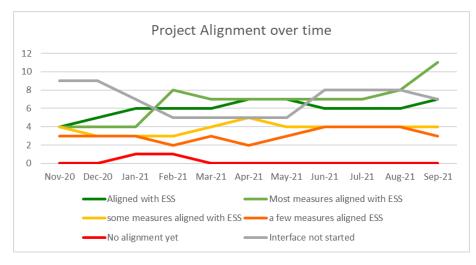






Alignment with 30 projects





HIF Board			4 Antony Way	Some align	
Strategic Infrastructure works	Mostly aligned		Last Action: Develop ESS for meanwhile uses		
Last action: £390k agreed for materials re-use. Team focussing on CEEQUAL priority actions.	Next action: mid-term review	-		meanwhile ESS at Regen hoard	
reall rocassing on energone priority actions.	Teview		5 Antony Way	not started	
Substation	Mostly aligned		Last Action: Develop ESS for meanwhile uses		
Last action: Pre-app submitted without any	Next action: team	_		at Regen board	
sustainability info	briefing urgently needed		Silvermere / Rivermead	not started	
HIF -Rail	Como align		meanwhile use not decided yet		
	Some align		meanwine ase not accided yet	TTCACTCCTOTT 1	
Last action: Sustainability workshop held by WSP on 7/9/21	Next Action: Design review pre-tender	-			
	remem pre tender		Site services		
			Last Action:	Next action:	
Phase Delivery board					
Meridian One - Phase 1a	Mostly aligned		Bambury Resevoir	not started	
ast action: Feb 2021 Compliance tracker sent -	Next action: compliance	_	Last Action: N/A		
no update from vistry received.		_			
	No ablandi		a. 1.11	۸.5	
Meridian One - Phase 1b			Stonehill - NLWA		
Last action: Mar 2021 Compliance tracker sent.		-	PV on roofs of site huts	Next action:	
Awaiting Vistry sust strategy and metrics	visity strategy + ivietrics				
PRS (presure reducing station)	A few		Phoenix Wharf (CE site)	Aligned	
ast Action: May 21: Discusion re Hydrogen fuel	Next action: An update?	_	Last action: Sept 2021 Developing feasibility	Next action: Sept 2021:	
cells for site power, but more needed on			brief	Review feasibility scope	
hasics	Mostly aligned				
Meridian Two	Mostly aligned		Charles I. Daniel and Lafer the state of		
Last Action: 28/08/21 - Compliance tracker, incorporated into DA	Next Action. Teview DA text	_	Strategic Desgin and Infrastruct	ure board	
meorporatea meo art			Ikea	A few	
Meridian Three	Aligned		Last Action: commenting on Carpark SuDs	Next action: Strategic	
Last Action: incorporating ESS2020 in brief	Next Action: review brief	_	scheme	discussion?	
			Tesco	not started	
Meridian Four	Aligned		Last Action: No connection yet		
Last action:ESS2020 metrics included as a		_	·	discussion?	
requirement in briefing document		_	Tear drop site	not started	
Pumping station	not started		Last Action: N/A		
Last Action: N/A	Next action: ?	_	zast nedom nyn	Text detroin :	
200(744001111)	TEXE decion:		MANAL buidee	Alignad	
			WAML bridge		
Regen board - currently reviewir	a ESS for moanwh	ilo.	Last action:Nov 2020 Reviewed sustainability	next action: Await project restart	
•		ille	A4 . 11		
Troubadour	Some align Next action: ?		Meridian Five		
Last Action: Suggestion of more landscaping	Next action: :	-	Last Action: Reviewing brief	Next action: r	
Building Blogs	Mostly aligned	•	Signage		
ast Action: Reviewed BREEAM report. Recycled CLT for partitions, waste wood collection.	and Data collection		Last Action: Re-use of materials, made locally	proposals	7
·					
Skills Academy	, ,		Towpath improvement		
Last action: Vistry confirms re-used	Next action: Review	-	Last Action: Briefing discussions started		
ortacabins, timber cladding, ASHP, lightweigh	Construction Docs?			proposals	
Middle Meanwhile use	Some align		Primary / SEN school	not started	
Last Action: Regen team reviewing vistry	Next Action: receive	_	Last Action: N/A	Next action: ?	
proposals. Good discussion over what it is	proposal from Vistry				
F Block	Mostly aligned				
Last Action: 9/9/21 - input into demo spec for	Next action: review	_			
and developing options for re-used portions	options with LW				

Leadership, Endorsement and Sharing Knowledge



Learning from best available

Evolving through implementing











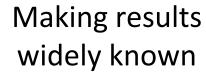














CATAPI II 7

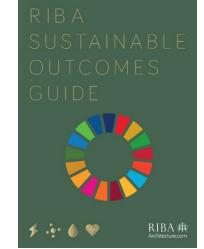


Department for Levelling Up, Housing & Communities











Thank you

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