



HBF Technical Conference

9 November 2021

Taking a proactive approach

Government has twin priorities to build more homes and meet environmental challenges.

Historically, approach to environmental issues has sometimes been stop-start, short-term and piecemeal.

Yet successfully building sustainable homes consistently across the country needs, inter alia:

- sufficient lead in times and predictability to be factored into land deals, planning and design of homes
- level playing fields
- economies of scale to bring down costs
- ability to look at issues together not just environmental issues but issues like safety, overheating and attractiveness

Government therefore asked for an industry led approach to how we can most effectively achieve these objectives simultaneously.





Members of the Task Force



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Delivery Plan and Hub Announcement



27 July 2021:

- Future Homes Delivery Plan published
- Future Homes Hub announced
- Webpages up: www.futurehomes.org.uk



"As we drive forward our plan for the UK to meet its 2050 net zero target, we are determined to improve the energy efficiency of our homes and reduce carbon emissions in a way that is fair and affordable to everyone. I welcome the work of the Future Homes Task Force, which has brought together leaders across the fields that contribute to and influence homebuilding and has created this roadmap for meeting these challenges. It is right that the industry is stepping up to play a leadership role here: delivery and innovation to meet the challenges requires common purpose and partnerships that are being formed. The Delivery Hub will provide support across industry to ensure successful implementation of the Future Homes Standard."

Housing Secretary RT Hon Robert Jenrick MP



Summary timelines of sector-wide goals and commitments

	HEADLINE GOAL	FROM 2025	FROM 2030	FROM 2040					
	Zero carbon ready	Zero carbon ready (for regulated energy) across all homes, with very high fabric efficiency standards. (kWh/m2/yr; precise levels to be determined). Investigation of how further to reduce energy demand and emissions sector-wide.							
	Healthy, safe and comfortable	Target levels to be set for 2025 for interlinked elements such as: overheating, air quality, sound, space and accessibility, safety and daylighting.							
Homes that are:	Water efficient	Work with government to develop a roadmap in 2 for a fittings approach, for new technologies and 2025 and 2030.	Work with government to develop a roadmap in 2022 to achieve greater water efficiency in new development, including exploring the role for a fittings approach, for new technologies and innovative water systems and the potential for future targets for reducing water use in 2025 and 2030.						
	Designed for sustainable living	Incorporate technologies that enable sustainable	lifestyles, including zero emission	n vehicle readiness.					
	Are well designed	All relevant applications will consistently design lo in line with the National Model Design Code as ea	ow carbon, nature, sustainable life rly as possible. This will include g	estyles, resilience, health and beauty into developments, greater connectivity with low carbon modes of transport.					
Places that:	Maximise Biodiversity Net Gain	Optimise benefits for nature and people from Biodiversity Net Gain once introduced. If appropriate, once properly analysed and understood, pilot the move to Environmental Net Gain and, work with the Government to develop the methodologies.							
	Achieve water resilience	All relevant applications give early and strategic consideration of how to proactively manage long term flood risk and water resilience, availability and quality at site and property level including the use of multi-benefit SuDS.							
	Respect environmental thresholds	Collaborative action to reduce pressure across the system, notably in areas vulnerable to nutrient overloads, water stress and floods.							
	Zero embodied carbon	Ambition to meet or exceed the World GBC Net Zero pathway, with rapid analysis to set robust and stretching targets for 2025, 2030 and 2040 and/or other dates as appropriate.							
Production and	Resource efficiency	Incremental improvements and target to be set for 2025, 2030 and 2040. Zero avoidable waste at all stages of the construction lifecycle by 2050.							
construction that achieves:		Early work to set reduction targets for, 2025, 2030 and 2040.							
	water enciency	Up to 30% reduction.	Up to 40% reduction.	Up to 50% reduction.					
	Low emissions to air	Air quality target to be set for 2025, 2030 and 2040.							
Businesses operations that are:	Net zero and sustainable	Establish and implement wider sustainability goals.	50% reduction in business emissions by 2030.	Net zero business emissions by 2050.					

Report of Future Homes Task Force



				New government policy or target	Potential target	ord	Enabling activity done catalysed throug hub	gh Precondition			
	202	21	2022	2023	202	24	2025	5 203	0 20	040 2050	
	Government asks and actions	Collaborate as part of p development planning, and on the processes to have been met in a use	Environment Bi planning reform on: ho ; how to engage local o demonstrate that th er friendly way.	I Targets, including 10% BNG in up environmental a communities consistently and e totality of sustainability req	and d efficiently; uirements	Implement the Site-level susta methods and g	e new planning me ainability plans sho guidance develope	easures. ould apply for permissions fr ed through the hub.	Expand to Environme	ental Net Gain.	UTURE HOMES HUB
) SITE DESIGN	Systemic approach	Coll - - and	aborative work with t The templates for im Code in a coherent w homes standard and this plan. Barriers and needs fo Arrangements needer for stewardship. Demonstrator project customer engagement Programme to build sustainability across	ne development sector to ide plementing the National Mod ay with biodiversity net gain, all the other requirements an r additional support. d for successful implementati s to facilitate shared innovati tt d capacity and understanding s industry and local governm	ntify: el Design the future d elements in on including on , learning to embed integra ent, with a focus o	ated approach on smaller dev	es to elopers •				
AND	Well designed	ŀ	Collaborative work programme above integrate nature in Bill.	with MHCLG's chief planning During 2023 establish the ac to development and help act	g officer and the C tivities that can b nieve the nature t	Office for Place be done sector- argets in the E	e on the A -wide to ri nvironment C	All relevant applications will esilience, health and beauty Code as early as possible. Thi of transport.	consistently design net zero, n into developments, In line wit s will include greater connecti	t ature, sustainable lifestyle th the National Model Des vity with low carbon mode	es
NING	Achieve water resilience	•	Water resilience resilience to fu considering lo incorporating p Construction of	will be incorporated into the ture climate projections (UKC ocation and site design, using roperty flood resilience. This Suidance. Determine how the	industry led prog CP) including flood multi-benefit Su would reflect the ese solutions can i	ramme above ling and water DS where possi water sector's improve water	to achieve scarcity, ble and Design & quality.	All relevant applications give manage long term flood risk a property level including throu	early and strategic considerati and water resilience, availabili igh the use of multi-benefit Su	ion of how to proactively ty and quality at site and uDS.	
PLAN	Maximise Biodiversity Net Gain	•	Investigating the p to maximise va Second in conserv	otential for strategic nationa lue to nature from BNG and ration body expertise to advis Investigate h government t	l approaches and address long-term se on incorporatin ow offsite offsett to establish longe	partnership ar n maintenance g best practice ing could aid ir r term approac by evid	rrangements of sites. e measures. ncreasing BNG bey ch to Environment ence	Dptimise benefits for nature appropriate, once properly a net gain and, work with gove yond 10%. Dialogue with tal Net Gain, if supported	and people from Biodiversity I nalysed and understood, pilot rnment to develop the metho	Net Gain once introduced. the move to environment dologies	If cal
	Respect environmental thresholds	L,	Investigate the s neutrality and wa	olutions that can be used wh ter neutrality pilots, and floo from pi	ere threshold issu ds. Catalyse and b lots.	ues arise such a pring together	as nutrient the findings	Collaborative action to reduc to nutrie	e pressures across the system nt overloads, water stress and	, notably in areas vulnerab f floods.	

New government policy or target

Potential

target

Enabling activity done or catalysed through hub

Precondition

hub

	202	21 2	022 20	023 2	2024 2	.025 20	30 2	040 2050	
PRODUCTION & CONSTRUCTION	Systemic approach	Agree m reviewin standar Measur perform Assess when, r environ Set targ how can pollutio constru specific needed Underst the Fut changes Meanw that car across t	FH: neasurement methods, ng existing measurement ds, including with supply chain. e and publish current nance across the industry. what reductions can be made eflecting the whole life mental impacts. gets and a detailed roadmap for rbon, resources, water and air on can be reduced during the ction lifecycle, including the mechanisms and actions tand clashes and synergies with ure Homes Standard and other s. hile identify quick wins n be implemented the sector.	1 Publish and support materials for the sector.			Full Future Homes Standard		UTURE HOMES HUB
	Zero embodied carbon		Work with sup EPDs for ea Expanded s Support SW	oply chain to achieve: ich product supply of low/zero carbon mat IEs in selecting materials and p i	terials product types i	Ambition to meet or exceed robust and stretching target appropriate.			
LIFE	Resource efficient		Work with supply chain to drive	e action on plastics and other	waste.	Incremental improvements and target to be set for 2025, 2030 and 2040.	Zero avoidable waste at all s lifecycle by 2050	tages of the construction	
VHOLE	Water efficient	•	Connect to meter at site start to Working with suppliers and wa options to allow scale up prior	o measure water use for base ter companies to trial and dev to meet the 2025 – 2040 path	ine. velop lower water usage way.	Up to 30% reduction.	Up to 40% reduction.	Up to 50% reduction.	
>	Low air pollution	•	Collaboration with manufacture	ers on future machinery and s	ite facilities.	Air quality targets to be set	for 2025, 2030 and 2040.		

			New government policy or target	Er Potential acti target or catal	nabling vity done ysed through hub	ondition		
	20	2022 2022	2023	2024	2025	2030	2040	2050
S		Secure accreditation for the future homes plan to be part of Race to Zero.						
ΛĒ,	Net zero Other environmental	Establish the optic homebuilding ope	ons and actions for rations to meet the		50% reduct	ion by 2030, moving to net zero by	/ 2050	
E BUSIN		Race to Zero trajec decarbonising bus working space.	ctory including through iness transport and					
		Establish the scope operation targets f environmental goa	e to set business or the other Ils, for example on		Potential su	istainable business targets to be se	et	
BL	targets	corresponding mea	aste, and the asures.					
USTAINA		Establish how corp done most effective line with this plan	orate reporting can be ely and efficiently in and wider	across all elements of the plan :	:		:	
	Across all targets	requirements such Identify and assess	as TCFD. "quick wins" to					
		achieve early progr four domains, for e single use plastics, mechanism to impl	ess across any of the xample to eliminate Additionally, the ement at scale across					
$\overline{\mathbf{N}}$		Publish guidance.						



This document sets out the commitment to collaborate on the goals and a shared roadmap through the Future Homes Delivery Hub.





COMING SOON

FUTURE HOMES HUB

Delivering on the sector-wide climate and environment plan for high quality homes and places.



Aim of the hub



- Oversee implementation of the commitments and roadmap,
- Develop the methods and facilitate the collaboration needed to support firms across the sector to deliver on net zero and environmental goals in an effective, efficient and coherent way.
- Work in a way that understands the customer and commercial context in which firms of all sizes and types operate.



Government specification for Hub



- Financial contributions so far from MHCLG, Defra and Homes England
- Support sector-wide delivery of the Future Homes Delivery Plan
- Immediate priority support of Future Homes Standard
- Government support is for:
 - SMEs- insight, engagement, outreach
 - Supply chains
 - Nature, water, resilience, air quality, resources portfolio
- Need to account specifically for Government spend



Core functions of the hub



• Develop the solutions

Bringing together the right people, to answer the right questions and the right time, and sharing across the sector.

• Facilitate sector-wide collaboration with 'delivery partners' to overcome barriers

Supply chain, skills, finance, infrastructure, local government and government.

• Share learning and experience across the sector

Facilitating day to day sharing between companies including from tests and demonstrators.

• Develop consistent set of metrics to track delivery

Framework of metrics to track delivery plan and simplify performance evaluation especially for ESG.



Technical priorities for 2021/22



- Future Homes Standard
- Building performance
- Embodied carbon
- Biodiversity Net Gain
- Water efficiency
- Nutrient neutrality



Future Homes Standard

- Oversight
- Expert Groups:
 - Fabric, Ventilation and Overheating
 - Heat pumps and heat networks
 - Direct Electric
 - Electrical infrastructure
 - Customer / Occupant
- Groups have commenced



Future Homes Standard (outcomes)



- Master report
- Guidance
- Variety of solutions
 - Different fabrics for houses and apartments
 - Different approaches from minimal fabric changes through to advanced
- Feedback to SAP and Government Pollicy



Building Performance Theme



- Will produce a Call for Evidence in November
- Concerns with FHS photographic requirements
- Take into account other work eg:
 - Smeters
 - Salford University
- Must include whole system and not just fabric
- Please feedback anything you would want to see in the Call for Evidence.





Thank you

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