

DEMOLITION ZERO - INTRODUCTORY SESSION

4TH AUGUST 2021 – MEETING STARTS AT 12.30



AGENDA

TOPIC	PRESENTER
Introduction and purpose of this session	Howard Button
NFDC update - wider industry collaboration to reduce carbon	Howard Button
Construct Zero Framework document – Possibilities for Demolition Zero	Howard Button / Members
Initial Discussion Topics: <ul style="list-style-type: none"> • <i>‘Red diesel versus HVO’</i> – member opinion to steer NFDC standpoint • <i>‘Refurbishment versus demolition – the reality’</i> • <i>‘Recycling is past - re-purposing and re-use is future’</i> • <i>‘What are you doing to champion carbon change?’</i> 	Members
Demolition Zero Working Group	Howard Button



90 MINUTES

INTRODUCTION

THE CASE FOR CHANGE...

- Pan-industry sustainability targets & expectations:
“collective action to address the challenge of climate change and achieve net zero carbon emissions in the UK by 2050.”
- Speculation on demolition industry carbon impact
- Need for industry leadership on key issue – NFDC has become a ‘CZ Partner’
- Carbon responsibility = credibility, social value & reputational benefits

THE PURPOSE OF THIS INTRODUCTORY SESSION...

- Share information on current situation
- Prompt initial discussion amongst the membership
- Highlight top issues for NFDC to address
- Record member interest for ‘demolition zero’ working group
- Start defining realistic NFDC deliverables



NFDC UPDATE – INDUSTRY COLLABORATION

WHO NFDC IS ALREADY WORKING WITH

- RIBA
- Construction Leadership Council (CLC), BEIS, DEFRA
- BUILD UK
- Related Industry Associations
- EDA / EU Ministers
- Green Construction Board (GCB)
- CIWM (C&D Forum)

WHO WE SHOULD ALSO BE WORKING WITH

- **YOU!**
- Members' insights, case studies & best practice to reduce carbon footprint

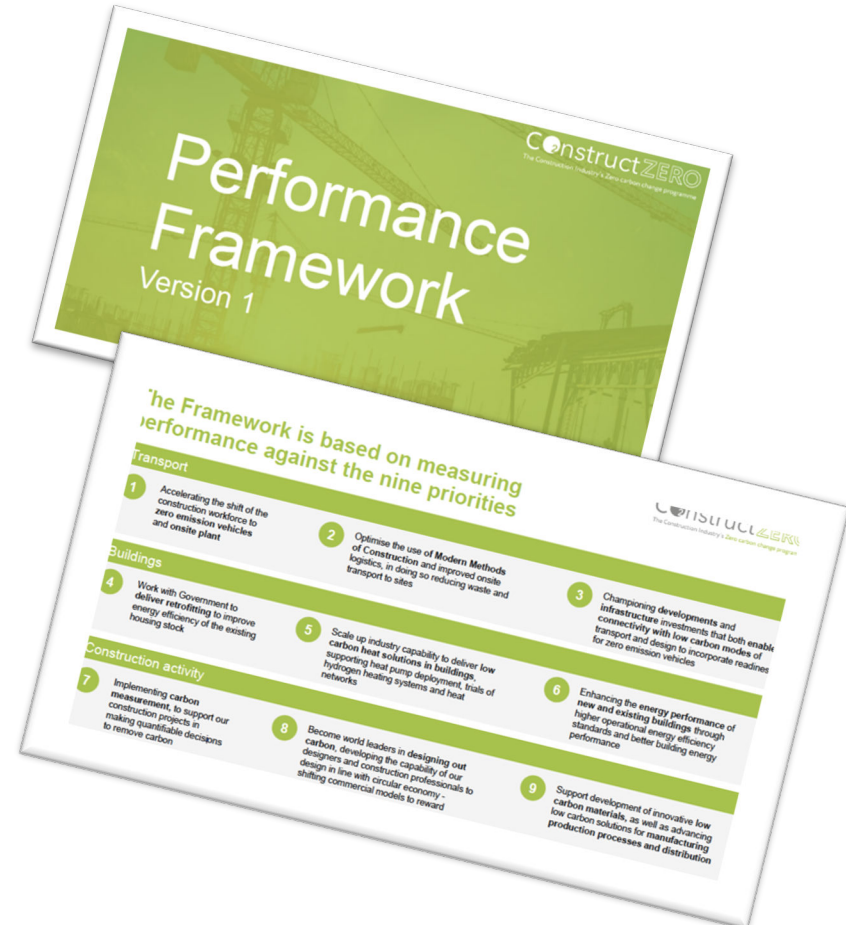
OUT NOW – Construct Zero Performance Framework Document v1



CONSTRUCT ZERO FRAMEWORK DOCUMENT

WHAT IS IT?

- A 40-page document which sets out how the construction sector will commit to, and measure its progress towards, net zero.
- Produced through consultation with the industry – **NFDC is now a 'CZ Partner'**
- Sets out 9 priorities for the construction industry to reduce its carbon emissions.
- **How do these priorities translate to demolition?**
- **What should our (realistic) sector-specific priorities be?**



CONSTRUCT ZERO – PRIORITIES

PRIORITIES	COMMITMENT	DETAIL
TRANSPORT	1. ZERO EMISSION VEHICLES AND ONSITE PLANT	ACCELERATING THE SHIFT OF THE CONSTRUCTION WORKFORCE TO ZERO EMISSION VEHICLES AND ONSITE PLANT
	2. MODERN METHODS OF CONSTRUCTION	OPTIMISE THE USE OF MODERN METHODS OF CONSTRUCTION AND IMPROVED ONSITE LOGISTICS, IN DOING SO REDUCING WASTE AND TRANSPORT TO SITES
	3. CHAMPION PROJECTS THAT ENABLE LOW-CARBON TRANSPORT MODES	CHAMPIONING DEVELOPMENTS AND INFRASTRUCTURE INVESTMENTS THAT BOTH ENABLE CONNECTIVITY WITH LOW CARBON MODES OF TRANSPORT AND DESIGN TO INCORPORATE READINESS FOR ZERO EMISSION VEHICLES



- RELEVANCE TO DEMOLITION?
- CURRENT DEMOLITION IMPACT IN THESE AREAS?
- CURRENT MEMBER EFFORTS TO REDUCE EMISSIONS IN TRANSPORT? (We’re talking about red diesel/HVO shortly...)
- FUTURE GOALS / LEGISLATION FOR REDUCING CARBON IN TRANSPORT FOR DEMOLITION?

CONSTRUCT ZERO – PRIORITIES

PRIORITIES	COMMITMENT	DETAIL
BUILDINGS	4. DELIVER RETROFITTING	WORK WITH GOVERNMENT TO DELIVER RETROFITTING TO IMPROVE ENERGY EFFICIENCY OF THE EXISTING HOUSING STOCK
	5. CAPABILITY FOR LOW CARBON HEAT SOLUTIONS	SCALE UP INDUSTRY CAPABILITY TO DELIVER LOW CARBON HEAT SOLUTIONS IN BUILDINGS, SUPPORTING HEAT PUMP DEPLOYMENT, TRIALS OF HYDROGEN HEATING SYSTEMS AND HEAT NETWORKS
	6. ENERGY PERFORMANCE – NEW & EXISTING	ENHANCING THE ENERGY PERFORMANCE OF NEW AND EXISTING BUILDINGS THROUGH HIGHER OPERATIONAL ENERGY EFFICIENCY STANDARDS AND BETTER BUILDING ENERGY PERFORMANCE



- RELEVANCE TO DEMOLITION – PRIORITY 4 ONLY?
- IS PRIORITY 6 AN OPPORTUNITY FOR MEMBERS WITH STRIP-OUT WORK?

CONSTRUCT ZERO – PRIORITIES

PRIORITIES	COMMITMENT	DETAIL
CONSTRUCTION ACTIVITY	7. CARBON MEASUREMENT	IMPLEMENTING CARBON MEASUREMENT, TO SUPPORT OUR CONSTRUCTION PROJECTS IN MAKING QUANTIFIABLE DECISIONS TO REMOVE CARBON
	8. LEAD IN 'DESIGNING OUT' CARBON	BECOME WORLD LEADERS IN DESIGNING OUT CARBON, DEVELOPING THE CAPABILITY OF OUR DESIGNERS AND CONSTRUCTION PROFESSIONALS TO DESIGN IN LINE WITH CIRCULAR ECONOMY - SHIFTING COMMERCIAL MODELS TO REWARD MEASURABLE CARBON REDUCTIONS
	9. LOW CARBON MATERIALS & SOLUTIONS	SUPPORT DEVELOPMENT OF INNOVATIVE LOW CARBON MATERIALS, AS WELL AS ADVANCING LOW CARBON SOLUTIONS FOR MANUFACTURING PRODUCTION PROCESSES AND DISTRIBUTION

DISCUSS

- CARBON MEASUREMENT IN DEMOLITION – WHAT ARE WE DOING NOW? WHAT COULD WE BE DOING?
- WE ALREADY WORK IN LINE WITH CIRCULAR ECONOMY IN DEMOLITION – WHAT ELSE CAN WE DO TO REDUCE/DESIGN OUT CARBON?
- LOW CARBON ALTERNATIVES FOR PROCESSES & DISTRIBUTION IN DEMOLITION?

DEMOLITION ZERO – MEMBER DISCUSSION

**RED
DIESEL
VERSUS
HVO**



CONSTRUCT ZERO TRANSPORT
PRIORITIES – TOWARDS ZERO
EMISSIONS



CONSTRUCT ZERO
'CONSTRUCTION ACTIVITY'
PRIORITIES – LOW CARBON
MATERIALS/SOLUTIONS

- **IS HVO A GREENER ALTERNATIVE?**
- **WHAT ARE THE STATISTICS ON EMISSIONS?**
- **WHAT IS THE COST IMPACT OF MAKING A CHANGE?**

(MEMBER REFERENCES: BRADLEY DEMOLITION, RYE DEMOLITION, KELTBRAV, OTHERS?)

DEMOLITION ZERO – MEMBER DISCUSSION

**REFURBISH
VERSUS
DEMOLISH**



CONSTRUCT ZERO BUILDINGS
PRIORITY: 'DELIVER
RETROFITTING'

- LESS DEMOLITION WORK FOR FUTURE?
- REDUCE CARBON/ENVIRONMENTAL IMPACT OF DEMOLITION WORKS? DEMONSTRATE & PUBLICISE?
- HIGHLIGHT THE CHALLENGES OF REFURBISHING OLD BUILDINGS
 - SAFETY? ASBESTOS? WORKFORCE CAPABILITY FOR HAND-STRIPPING? MORE?

DEMOLITION ZERO – MEMBER DISCUSSION

**RECYCLE
VERSUS
REPURPOSE
/ REUSE**



CONSTRUCT ZERO TRANSPORT
PRIORITY: 'REDUCE WASTE,
REDUCE TRANSPORT'



CONSTRUCT ZERO
'CONSTRUCTION ACTIVITY
PRIORITY: 'DESIGN OUT
CARBON/WASTE'

- DEMOLITION INDUSTRY EVOLVED IN LINE WITH CIRCULAR ECONOMY
- SHARE & PROMOTE LEADERSHIP IN REDUCTION OF WASTE FOR SECTOR
- WHAT OTHER/ADDITIONAL GOALS ARE IMPORTANT FOR THE DEMOLITION INDUSTRY?
- REMEMBER DRIDS? THIS HAS BEEN ON OUR AGENDA FOR MANY, MANY YEARS

DEMOLITION ZERO – MEMBER DISCUSSION

EFFORTS TOWARDS CARBON CHANGE

- WHAT ELSE IS THE DEMOLITION SECTOR DOING TOWARDS CARBON CHANGE?
- WHAT SHOULD OUR REALISTIC 'DEMOLITION ZERO' FRAMEWORK INCLUDE?

WILL YOU JOIN THE WORKING GROUP?

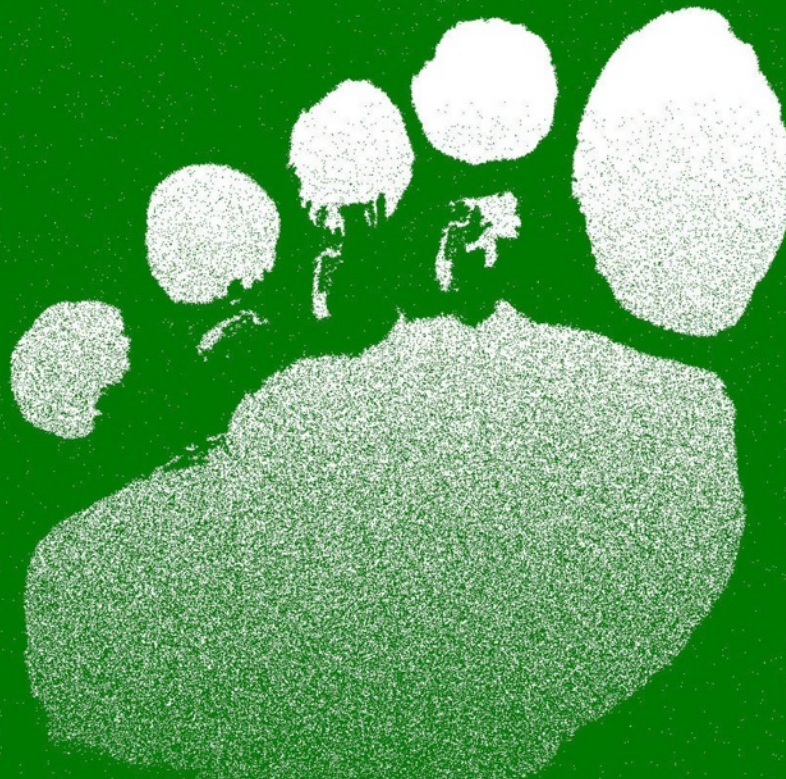


YOUR COMMITMENT:

- ACTIVE PARTICIPATION IN DISCUSSION & SHARING BEST PRACTICE
- ZOOM MEETINGS ONCE PER MONTH
- CONTRIBUTE TO PRODUCTION OF DEMOLITION ZERO FRAMEWORK DOCUMENT
- 'CHAMPION' NFDC MEMBERS & INDUSTRY EFFORTS TO REDUCE CARBON – SHARE FAR & WIDE

DEMOLITION ZERO

THANK



YOU