

The Scottish Government's new voluntary Standard

- Developed collaboratively by
 - The Scottish Government
 - Scottish Futures Trust
 - Zero Waste Scotland
 - Health Facilities Scotland
 - Construction & public sector in Scotland

A voluntary Standard for ambitious public bodies' new build, non-domestic projects

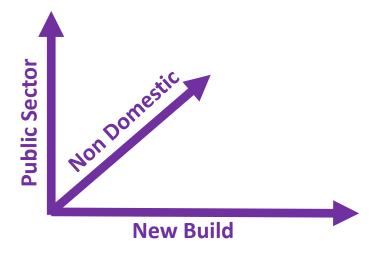
Applies the Scottish Government's Net Zero Policy to:

- → Construction Projects:
 - → Newbuild
 - → Major Refurbishment
- → Shaped by National & Local NZ commitments:
 - → Local Authority Areas
 - → Sectors
 - → Organisational Policies
- → Set targets in client brief, verify outcomes in use:
 - → Exemplar energy performance
 - → Strategy to reach Net Zero deadline
 - → Healthy indoor & outdoor environments

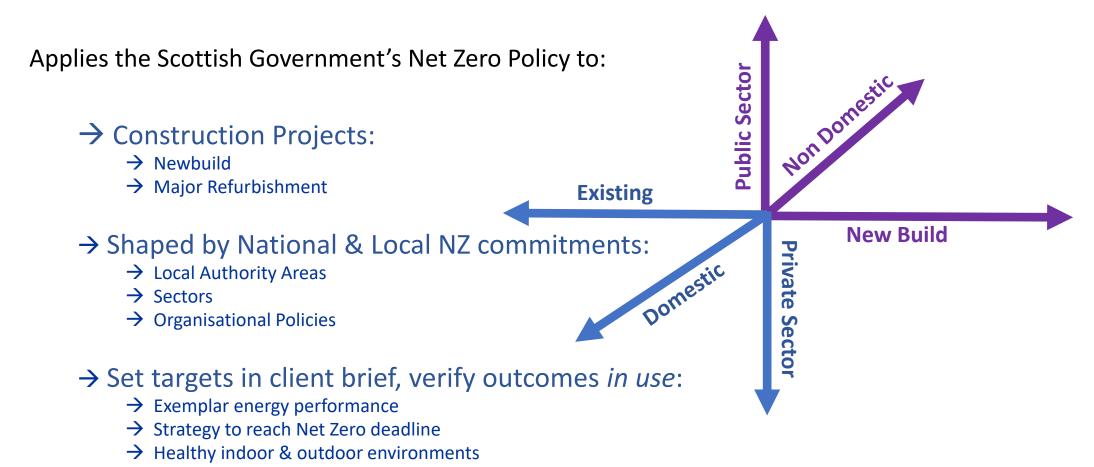
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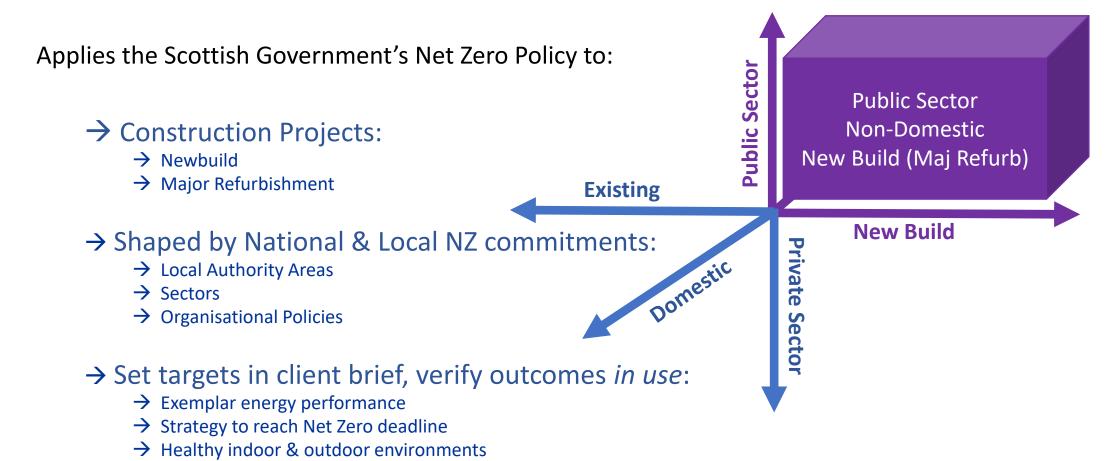
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The Standard:

In Use stage verification influences design & construction



Set Targets in Strategic Brief

Collaborate to achieve targets

Verify Outcomes from design through construction to operation

Application

Concept Design

Detailed Design

Delivery

Verification of Performance Continuous Improvement

Place

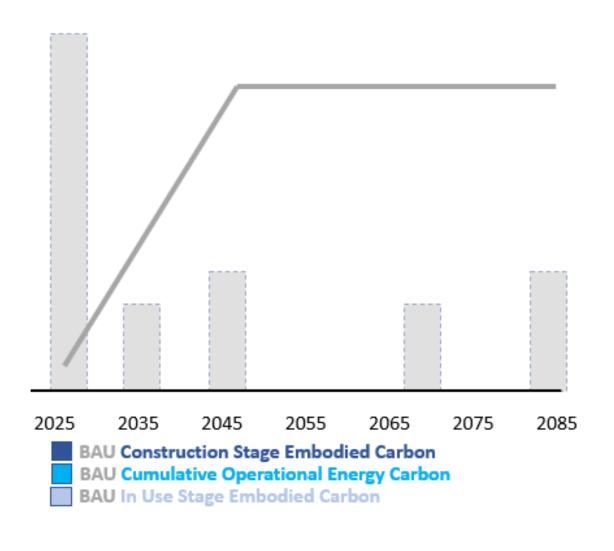
Carbon

Construction Embodied

Operational Energy

Whole Life

Environment



Place

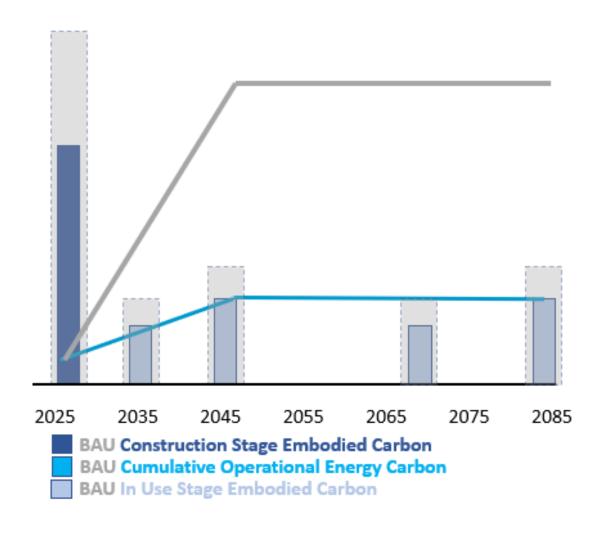
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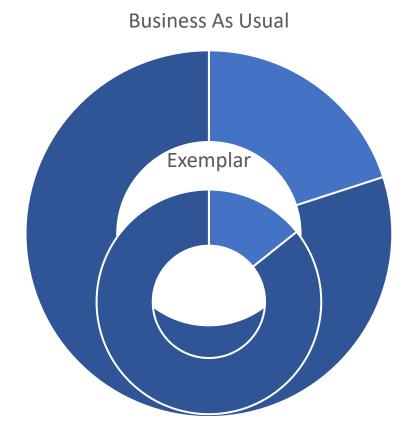
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Place Inclusive NZ Economy Outcomes

Construction Embodied
Operational Energy
Whole Life

Environment

Environment

Exemplar quality of indoor environments

- Plenty of clean, fresh air
 - natural light
- avoidance of overheating

External Environment & Other Aspects

Place Inclusive NZ Economy Outcomes **Construction Embodied Operational Energy** Carbon Environment Environment

IIP Investment Hierarchy right building right place right outcomes

Infrastructure Investment Plan

Determine need

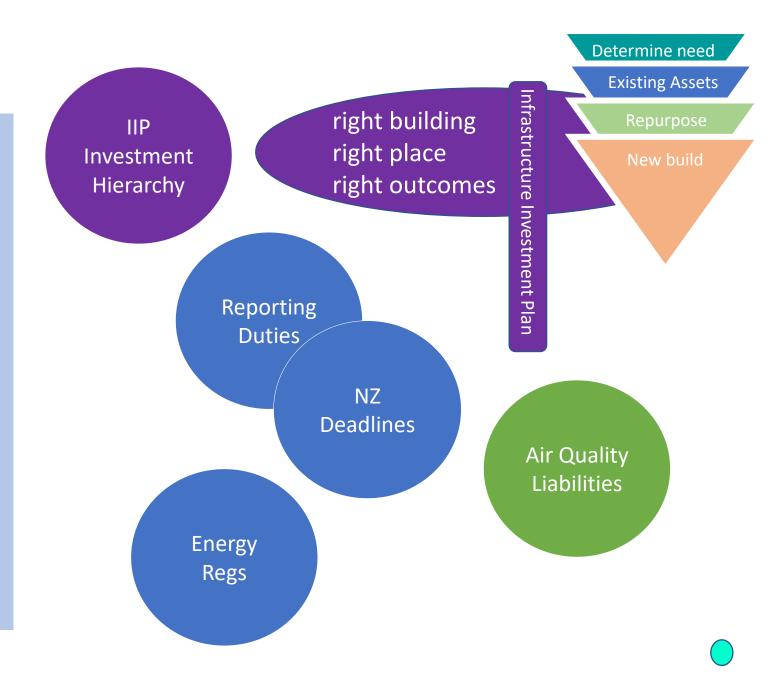
Existing Assets

Repurpose

New build

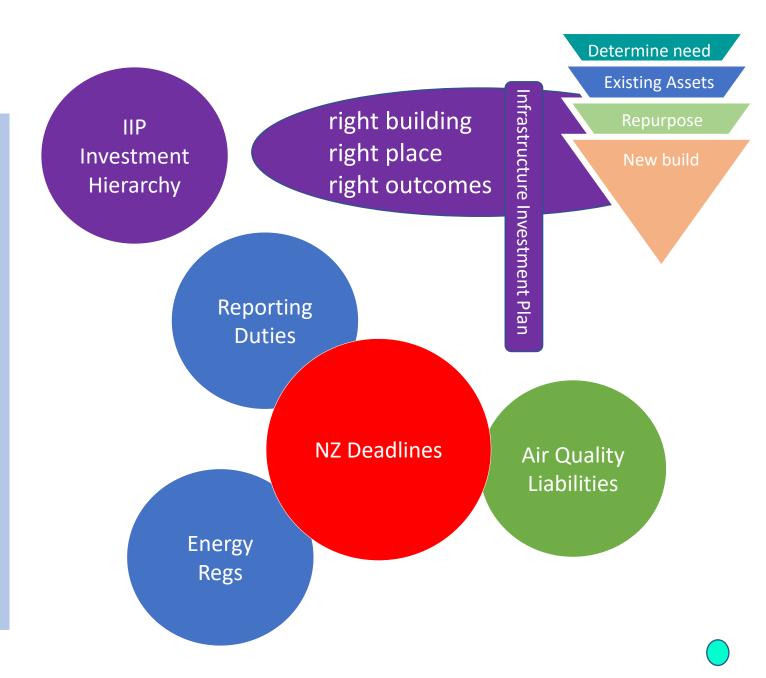
Why is a voluntary standard helpful?

- Navigation through future regs & climate change mitigation:-
- The Place-Based agenda
- Local Authority Area commitments
 - Local Heat & Energy Efficiency Strategies
- Energy in Buildings
 - Building Standards Energy Reviews
 - Heat in New Buildings Regs 2024
 - National Planning Framework 4
- Public Bodies' net zero commitments
- Air quality concerns indoor & out



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St Sophia's Primary School

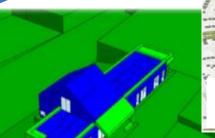




Education New Build

Currie High School and Community Hub

Maybury Primary School and Health



Dunfermline Learning Campus -Schools & College

Dunlop Early Learning Centre









Health New Build

The Standard: Pathfinders Dunfermline Learning Campus – Fife Council & Fife College

Place

Inclusive NZ Economy Outcomes

Place/strategic case

Carbon

Construction Embodied

Operational Energy

Whole Life

Environment

Environment

Embodied Carbon: a new concept; Council and College keen to engage; consider setting targets

Operational Energy Target:

Council set; College considering

Whole Life Carbon: a new concept; Council and College keen to engage; consider setting targets

Indoor: generally understood, key requirements and verification being considered

Outdoor: engaging with Building Standards; further development being considered



The Standard: Pathfinders

Dunfermline Learning Campus

- Learning Estate Investment Programme outcomes approach
- driven the adoption of very low Operational Energy Target meeting requirements of the Standard
- Adoption of Passivehaus fabric first principles
- Use of Standard Information Management Plan and Construction Quality Assurance initiative
- Appropriate NZ champion appointment

Pathfinder Trends

- Costs
- Resources
- Programme
- materials and insurance

Public sector keen to engage on NZ and see the **benefits**

The Standard: Benefits

What will it do differently? Set Net Zero Targets Verify them in use **Set Targets** Collaborate on Delivery **Benefits** Meet *legally binding* net zero commitments Better Air Quality: indoor & out How will it do it? Carbon performance as core objectives of construction projects Energy Modelling to check design & construction remain on track to meet targets Verify in use → remediate under-performance Next Steps Detailed documentation being completed Available for use by ambitious Authorities now Peer Review in Summer Launch in the run up to COP26

Verify

Performance



Questions?

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