



How was the project proposal informed?

Sustainable Procurement Theme





SBEnrc P2.76 **Sustainable Procurement**2020-2022 (completed)

SBEnrc P2.86

Developing Sustainable and
Resilient Supply Chains
2021-2023 (ongoing)

SBEnrc National Industry Research Workshops











There's probably not enough collaboration between government, industry and research

Cost implications and budgeting perspective; create mechanisms for supply chain to deliver social housing.

---- Aaron Dove

Sustainable procurement as enabler for circular economy. Specific barriers to circular business models being procured. --- Emily Gentilini

Procurement contract

Scope 3 is where we need to put the effort in and that goes straight into the supply chain. ---- John Clifton

If we're able to support

procurement managers, procurement professionals and the supply chains and know how to get in there at that early phase influence. ---- Rhys D Owen-Roberts

We're finding procurement can make the most Dominique Holani It was a small proportion to change the way things are done, there's a lot more social impact and outcomes for. ---- John Perry

There are some pretty big low hanging fruit opportunities in how buildings are designed and specified. There is a massive labour shortfall at the moment. ---- Luke Rowlinson

It's quite difficult to assess the carbon footprint for different products in an easily and reliable way. Need to engage both supply and demand side to get all parties to agree ---- Greg Ryan







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___ Davina Rooney

How do we give the market sort of the power to bring us some alternatives and bring us some change and some innovations.

How do we actually assess that and evaluate that through the procurement process.

--- Aaron Dove



I'm particularly interested in the barriers which are preventing more sustainable, more sustainable manufacturing and the materials that are used in the building and construction sector and how that sector emerges.

---- John Clifton

The acceptance of innovative sustainable materials into building material supply chain to make a difference.

Need to improve collaboration between government, industry and research.

--- Philip de Beukelaar



There's obviously a big opportunity around upskilling procurement professionals and people who you know are at the sort of the forefront of engaging in the supply chain.

How to breakdown barriers to implementation and innovation perspective and new materials.

---- Rhys D Owen-Roberts



Timeline of key opportunities

APR 23 SBEnrc Project







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Infrastructure NSW Commitments

AUG-OCT 2022



NABERS draft technical documents for public consultation

DEC 22



On behalf of NABERS





GBCA embodied carbon modelling guide

MAY 23







Globally aligned product directory

Future harmonised regulation

FUTURE NEEDS



Opportunities for cutting embodied carbon





Embodied emissions Consultation paper

MAR 23

GBCA practical guide to upfront carbon emissions









JUL 23

- NABERS framework will be available for pilot projects
- Final standard target December





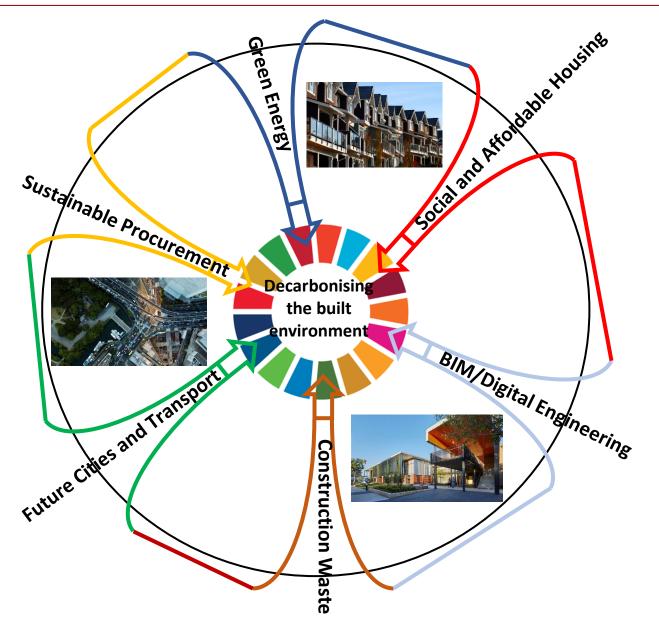


Industry Challenges

- Huge potential and need to cut embodied carbon
- Uptake of low carbon materials and innovations
- Complex value chains and multiyear change
- Tendering and procurement barriers

SBEnrc Innovation Cycle









Project overview

aimobjectivesproposed case studies

PROJECT AIM

Drive reductions of embodied carbon in the Australian built environment by leveraging organisations' purchasing power and improving their procurement processes and practices.

Embodied carbon

Built environment

Procurement





PROJECT OBJECTIVES



To examine the pathways for improving tendering and procurement practices to reduce embodied carbon.

To understand supply chain emission landscape and determine embodied carbon reduction baselines and targets

To develop procurement criteria and checklist against embodied carbon reduction targets and legal obligations while maintaining the value for money outcome

To develop guidelines for updating procurement documents including contracts to include embodied carbon reduction and incentives clauses



Theme of case study

Case study 1 (Linked to Objective 1)

Positioning procurement function to support achievement of decarbonisation goals.

Challenges to be addressed

What is the role of procurement in achieving a company's ESG ambitions?

How can procurement be organised and positioned in a company to support achievement of decarbonisation goals?

Prospective partners

BGC

DevelopmentWA

QLD Government

NSW Government

VIC Government

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Expected outcomes for partners

Review of best practices

Improved internal governance



Theme of case study

Case study 2 (Linked to Objective 2)

Understanding supply chain emission landscape and determining carbon reduction targets.

Challenges to be addressed

Where are your supply chain emission hotspots?

How to determine your carbon reduction targets considering your supply chain landscape?

Prospective partners

ATCO

BGC

Department of Communities WA

QLD Government

NSW Government

VIC Government

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Expected outcomes for partners

Supply chain emission landscape

Prioritisation of efforts

Realistic carbon reduction targets



Theme of case study

Case study 3 (Linked to Objective 3)

Designing realistic supplier selection criteria and checklist against carbon reduction targets and legal obligations while maintaining value for money tender outcome

Challenges to be addressed

How to design your supplier selection criteria against car bon reduction targets and I egal obligations?

What questions need to be asked for suppliers at pre-se lection stage?

How to tailor the questions for different suppliers?

Prospective partners

Main Roads WA

ATCO

Department of Communities WA

QLD Government

NSW Government

VIC Government

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Expected outcomes for partners

Supplier selection criteria

List of questions for suppliers

Customised checklist for different suppliers



Theme of case study

Case study 4 (Linked to Objective 4)

Updating procurement documents including contracts to include carbon reduction and incentives clauses.

Challenges to be addressed

How can contracts be updated to enforce carbon reduction commitments in tenders?

How can incentives attached to carbon reduction commitments be embedded in procurement documents including contracts?

Prospective partners

DevelopmentWA

ATCO

Main Roads WA

Dept Communities WA

QLD Government

NSW Government VIC Government

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Expected outcomes for partners

Sample contract clauses

Improved contract model and contract renewal



This research would not have been possible without the ongoing support of our core industry, government and research partners:





















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