

HS2 Circular economy opportunities

DRAFT Technical requirements

HS2/674

06 May 2016

Contents

Section 1:	Introduction
Section 2:	Scope
Section 3:	Deliverables
Section 4:	Methodology

1. Introduction

- 1.1. The circular economy principles closely align with HS2's commitment to be an exemplar project in that we will strive to limit negative impacts through design, mitigation and by challenging industry standards, as well as looking for environmental enhancements and benefits.
- 1.2. We have started to embed the principles through our [Sustainability Policy](#) in which we have committed to 'source and make efficient use of sustainable materials, maximise the proportion of material diverted from landfill and reduce waste', and 'deliver low carbon long distance journeys that are supported by low carbon energy'.
- 1.3. These are expanded through our Construction, Demolition and Excavation Waste Strategy, Sustainable Materials Strategy and Carbon Management Strategy. Further activities are also being pursued under each of these areas which further align with the principles. However, this topic can affect all parts of our organisation and supply chain and further work is required to fully understand the opportunities and the benefits that could be realised.
- 1.4. The aim of conducting this piece of work is to:
 - Capture what we already do across the organisation relating to the circular economy;
 - Understand what we could do to further adopt circular economy approaches in our business/value chain;
 - Identify where we should focus our efforts in shaping our organisation's journey towards a circular economy, in order to realise benefits from this for the programme.
- 1.5. It is intended that the outputs will be able to be used to develop compelling recommendations to obtain Board level support for further exploration of the identified opportunities.
- 1.6. As such, while the initial phases might identify a wide range of opportunities we envisage the evaluation and prioritisation process to highlight a select few opportunities to be taken forward.

2. Scope

- 2.1. HS2 requires a Supplier to identify existing work and additional opportunities and evaluate and prioritise these to understand where further embedment of circular economy principles can deliver value for the programme.
- 2.2. This will involve conducting the following activities:
 - Review of documents and meeting(s) with the environment team and other relevant directorates (such as Procurement, Built Environment, Construction, Operation etc.) to:

- Bring together the current disparate strands of existing work relating to the circular economy;
 - Identify additional opportunities within our business/value chain;
 - Develop an approach to evaluate the benefits (including financial) of the additional opportunities
 - Analyse the additional opportunities based on the agreed approach;
 - Based on the evaluation, recommend which additional opportunities HS2 should pursue further to ensure that HS2 takes a leadership position, becomes a circular project and realises identified benefits;
 - In collaboration with the environment team and representatives from other relevant directorates, review the evaluation and agree on the recommendations;
 - Produce a report detailing the process and findings of the study including the business case for the recommended opportunities to be presented to the Board.
- 2.3. Where appropriate, the evaluation of the opportunities should be considered in relation to both Phase One (which is constrained by the provisions in the hybrid Bill) and associated controls (e.g. Environmental Minimum Requirements, Code of Construction Practice), and Phase Two of the project, for which there is perhaps a greater degree of flexibility.
- 2.4. We expect the project to be undertaken collaboratively and that there will be regular contact (at least monthly) between the Employer's and the Supplier's representatives to discuss approach, programme, progress, risks, input required etc.

3. Deliverables

- 3.1. The following key deliverables are required:
- Evaluation approach
 - Summary of current activities and potential opportunities
 - Final reporting
- 3.2. The final report shall:
- Describe the aims and objectives of the study;
 - Describe the methodology used, assumptions made (if relevant) and open points;
 - Contain a summary of the activities already taking place in HS2 and how they relate to the circular economy;
 - Contain a collation of all the potential opportunities identified, a description of the design or business model intervention required and their evaluation;
 - Provide recommendation of a select few opportunities that HS2 should take forward include the detailed reasoning/business case that could be used to present to the Board;

- 3.3. Depending on the findings of the study, we may wish to share parts of the report with our future contractors and potentially with the wider industry to share the knowledge.
- 3.4. We will provide a HS2 template for the report and will not require 'print-ready' external documents.
- 3.5. Suppliers should allow for a draft report, comments, review meeting and final version.

4. Methodology

- 4.1. The methodology for completing the deliverables will be set out by the Supplier. This should be proposed in the tender response and confirmed during project mobilisation.
- 4.2. We are interested in both the overall approach to delivering the project and the detailed methods that will be used to engage with stakeholders and evaluate the opportunities.
- 4.3. The following key stages are expected:
 - Phase 1: Mobilisation
 - Phase 2: Identification of current activity and potential opportunities
 - Phase 3: Development of evaluation approach
 - Phase 4: Evaluation of potential opportunities
 - Phase 5: Final reporting
- 4.4. We envisage that to achieve this, the Supplier will need engagement (through a series of meetings and/or workshops, for example) with the various parts of the organisation and relevant external stakeholders. This engagement is likely to be required for both the identification and evaluation of opportunities. The Supplier should include in their response who they intend to engage with, both within HS2 and externally, and how they propose to do this.
- 4.5. It is anticipated that evaluation will be reviewed and the recommendations will be agreed collaboratively with the Employer's Representative, and any other relevant parties, prior to the final reporting.