Melbourne Water Innovation Competition – Reducing Scope 1 Greenhouse Gas Emissions

Responses to Questions Received between 21 November 2018 and 27 November 2018

NOTE:

1. Some similar questions have been consolidated into a single question and answer.
2. The formal question period for this Innovation Competition concluded on 26 November 2018 and no response to further questions of a technical nature will be provided, however responses will be provided to question relating to lodgement of submissions and similar issues.

Q 86. In the submission form the section relating to Technology Readiness Level refers to Section B.8 but there is nothing to clarify in this section, please provide guidance on how to derive the levels?

Please refer to Section B.7 in the Request for Solution document for more clarification on the definitions of Technology Readiness Levels.

Q 87. Regarding the current nitrite (NO_2) shunt trial Melbourne Water is undertaking:
(a) Are you measuring nitrous oxides at the nitrite (NO_2) shunt trial?
(b) Is the data from the shunt trial available?

a) Melbourne Water is not currently measuring nitrous oxide at the nitrite shunt trial. There are plans to install equipment for monitoring dissolved nitrous oxide and gaseous nitrous oxide in 2019.
b) Data from the nitrite shunt trial has not yet been published (though a limited amount presented at conferences) and Melbourne Water is not at this stage providing the trial data for the purposes of the Innovation Competition

Q 88. Will this competition be held again in the future?

Melbourne Water has no specific plans to repeat the Innovation Competition for Scope 1 Greenhouse Gas Emission Reduction in the future.

Q 89. Can you provide high level design documentation for new activated sludge plants? Number of diffusers, air flow, depth, blower type/specification?

At this stage of the Innovation Contest, Melbourne Water believes this level of detail is unnecessary. The requirement is to submit ideas and concepts that will result in reduced Scope 1 greenhouse gas emissions. The new activated sludge plant (at WTP) is largely conventional in its diffuser system, reactor depths etc.

Q 90. How much technical details are expected to be included in the competition application?

Please refer to Melbourne Water's response to "Question 12" in "Innovation Competition FAQ response 30 October 2018" on the website http://www.melbournewater.com.au/innovation-competition.

Q 91. Is Melbourne water looking to remove the reliance of both sites on grid power?

The competition is focused on reducing Scope 1 greenhouse gas emissions. That is, reducing direct emissions from the treatment process. Reducing reliance on grid supplied electricity may result in reducing Scope 2 greenhouse gas emissions, but Scope 2 emission reduction is not the subject of this competition.

Q 92. Is Melbourne Water open to receiving a submission which can provide both sites a solution which can eliminate all greenhouse gases and remove the sites from grid hybrid systems?

As stated in Question 91, above, Melbourne Water is seeking ideas that reduce Scope 1 greenhouse gas emissions. If a proposed solution also reduced Scope 2 greenhouse gas emission, this would be acceptable.

Web Page: http://www.melbournewater.com.au/innovation-competition
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