

Electricity Network Innovation Competition Full Submission
Supplementary Answer Form

Project: OSEAIT

Tick if this answer has been provided verbally: ☐

Project code	NGET_OSEAIT	Question Number	4
Question date	20 August 2015	Answer date	25 August 2015
Submission section question relates to	Section 3,4, Page 6		
Topic	Uncertain facility energy usage		
Question	Please provide details of expected facility energy usage and any carbon impacts associated.		
Notes on question			
Answer	<p>The energy usage of the buildings is estimated to be 180kWh/m². The total surface area of the buildings is 3500m² which equates to 185.5 tons of CO₂ per year.</p> <p>The main facility has transformers rates at 500kVA. These are expected to undergo a 30% utilisation (representing typical demand curves) once the facility is complete. The six transformers would hence equate to 3,000 tons of carbon per year.</p> <p>The total carbon impact of the facility per year would be of 3,185.5 tons per year.</p>		
Attachments			