

CaGBC - Zero Carbon Building Standard

Project Status Report

Project Name: TRCA New Head Office

January 23, 2019



	STATUS	ACTION	ACTION BY
General Information			
Download of annual data for each meter in Portfolio Manager	Transsolar provided preliminary anticipated meter data. Transsolar will provide updated anticipated meter data when final energy model is complete.	No action at this time	n/a
Mechanical, Electrical, Architectural IFC Drawings	Early April 2019 for 100% Contract Documents and Tender issue	No action at this time	n/a
Energy model output files	TS to provide IFC energy model output files which comply with ZCB energy modelling guidelines.	No action at this time	n/a
Narrative including: - Description of the building and its intended use - Description of the building energy systems - Description of any energy imports or exports - Description of the building envelope characteristics	Descriptions exist as part of various modelling reports and design briefs. Need to be consolidated into these categories.	TS to provide required descriptions at IFC stage	TS
Zero Carbon Balance			
Completed ZCB Workbook	ZCB Workbook summarizes project information's, submittals checklists, energy use data and GHG emission	GR to complete ZCB Workbook upon receipt of final data from TS.	GR
Share ENERGY STAR Portfolio Manager with CaGBC account "CaGBC ZCB Program"	Requires anticipated monthly energy use data. TRCA will provide access to ENERGY STAR portfolio manager account for Green Reason	Green Reason to input preliminary meter data anticipated by the energy model.	GR
Narrative including: - Commitment to fulfill ZCB using purchase of offsite renewable energy - Intended supplier(s) - Estimate of the quantity of offsite renewable energy required - Estimates of the expected annual costs - Source of all costs used in the estimates	TRCA have confirmed they will purchase green power and carbon offsets as necessary. TRCA have noted that they have existing agreements with Bullfrog for electricity and natural gas which meets ZCB standard requirements.	No action at this time	n/a
Zero Carbon Transition Plan			
- A narrative explaining why the combustion of fuels is necessary (if applicable) - A narrative describing how building loads have been reduced - A narrative describing the mechanical HVAC strategy and how components of the system may be adapted to accommodate non-combustion based technologies. - Drawings that show provisions for future upgrades - A financial comparison of the current system and a non-combustion based alternative	Not applicable as the project does not rely on onsite combustion of fuels.	n/a	n/a
TEDI			
Modelled TEDI performance of the building	Modelled TEDI performance is meeting the requirements	No action at this time	n/a

Narratives	Narratives to explain: - how TEDI has been reduced through the use of passive design measures - how TEDI has been calculated	TS to provide narratives at IFC for design submission.	TS
Testing results and supporting calculations for any alternative air leakage testing values used other than the default in the modelling guidelines	Air leakage testing requirements to be included in IFT documents.	No action at this time	JLSR
Peak Demand			
Modelled Peak Demand	Modelled peak demand is part of required submittals but there is no performance threshold requirement to meet.	TS to provide modelled peak demand when final energy model is ready.	TS

Embodied Carbon (LCA)			
Embodied carbon report that includes: - LCA software used - Elements in the building that are included in the calculation - Service life of the building - List of life cycle phases included - Total Global Warming Potential for the building (in kg CO2eq)	Whole building LCA is also required for the LEED credit Building Life-Cycle Impact Reduction	ZAS to coordinate with Green Reason on the next steps to initiate LCA.	GR/ZAS
Brief commentary on any challenges meeting this requirement, as well as any measures taken to reduce embodied carbon	Optional	No action at this time	n/a

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