

Tender Ref No: JTC25T0142



03 March 2026

To: All Applicants

CORRIGENDUM NO. 3

JTC DECARBONISATION LIVING LAB INNOVATION CALL 2026 (DECAL2.0)

Challenge Statement – Low Carbon Solutions - Maximizing renewable energy potential for industrial buildings

Please take note of the following amendments/clarifications to the above Innovation Call, which shall form part of the original Innovation Call document issued.

1. NEW DOCUMENT

- (a) “Corr 3 CS2_Defu 30 roof plan_HB-1504-82-4-A.pdf”
- (b) “Corr 3 CS2_Defu 38 roof plan 01_HB-1171-79-2-B.pdf”
- (c) “Corr 3 CS2_Defu 38 roof plan 02_HB-1171-79-3-A.pdf”

Please refer to below link for the documents.

<https://www.ipi-singapore.org/jtc/1089/problem-statement/low-carbon-solutions-maximising-renewable-energy-potential-for-industrial-buildings.html>

2. CLARIFICATIONS

Please take note of the clarification shown in Annex A which are made in response to the queries received.

3. CLOSING DATE

This Innovation Call Closing Date remains unchanged (i.e. 9 March 2026, not later than 4.00pm).

Your faithfully,
Md Rusydi (Mr.)
Sr Contracts Manager
Contracts and Procurement (Corporate) Division
(This is an electronic document. No signature is required.)

Annex A

Challenge Statement 1	
Q1	Please provide the energy demand for the development (in kWh/day), including the expected load profile. Please specify the breakdown of major loads such as cargo lifts, corridor lighting (indicating whether motion sensors are installed), and any other relevant electrical systems
A1	<p>For Block 38, the estimated energy demand as follow:</p> <ul style="list-style-type: none"> - Blk 38 (99 nos. corridor LED lighting (est. 10W per light) with built-in motion sensor which operate 13 hours per day (7pm-7am). Estimate daily elect. consumption for corridor lightings - est. 13kWh. - Blk 38 Cargo Lifts (2 nos.) daily elect. consumption - 13kWh to 30kWh. <p>For Block 30, the estimated energy demand as follow:</p> <ul style="list-style-type: none"> -Blk 30 (71 nos. corridor LED lighting (est. 10W per light) with built-in motion sensor which operate 13 hours per day (7pm-7am). Estimate daily elect. consumption for Blk 30 corridor lightings - est. 10kWh. - Daily elect. consumption for Blk 30 Cargo Lifts (2 nos.) - 13kWh to 30kWh.
Q2	Based on the 2,000 kWh/month and the 5,000 kWh/month estimated for the test sites, how many days does JTC expect the batteries to power the system without solar recharge (during cloudy weather or maintenance)?
A2	As a general reference, the Applicant may consider designing for approximately two (2) to three (3) days of backup autonomy, where appropriate, to account for periods without solar generation (e.g., prolonged cloudy weather or maintenance). The Applicant shall be responsible for proposing a suitable battery storage solution based on their overall system design, load assessment, and performance considerations.
Q3	Please clarify whether there is sufficient space on-site to accommodate a 20-foot container for housing the proposed off-grid battery energy storage system
A3	Due to space constraint, there is no allocated or available space on-site to accommodate a 20-foot container for the proposed off-grid battery energy storage system. The Applicant shall take this constraint into consideration in their proposal.
Q4	Please provide the roof layout plan for the test site.
A4	<p>Please refer to below link for the documents.</p> <ul style="list-style-type: none"> a. "Corr 3 CS2_Defu 30 roof plan_HB-1504-82-4-A.pdf" b. 'Corr 3 CS2_Defu 38 roof plan 01_HB-1171-79-2-B.pdf' c. 'Corr 3 CS2_Defu 38 roof plan 02_HB-1171-79-3-A.pdf' <p>https://www.ipi-singapore.org/jtc/1089/problem-statement/low-carbon-solutions-maximising-renewable-energy-potential-for-industrial-buildings.html</p>
Q5	Does the proposed test site(s) have an existing Building Management System (BMS)? If so, please provide the relevant BMS schematic diagrams for reference.
A5	There is no existing Building Management System (BMS) installed at the proposed test site(s).