



BUILDING INDUSTRIES



JTC Decarbonisation Living Lab Innovation Call 2026 (DECAL 2.0)

DECAL 2.0 Briefing
26 January 2026



Please scan for more detailed info

[OPEN / SENSITIVE NORMAL]

Agenda

- 1. Program Introduction**
- 2. Timeline**
- 3. Administrative Requirements**
- 4. Challenge Statement Requirements**
- 5. Q&A**

Introduction of DECAL2.0

Objectives

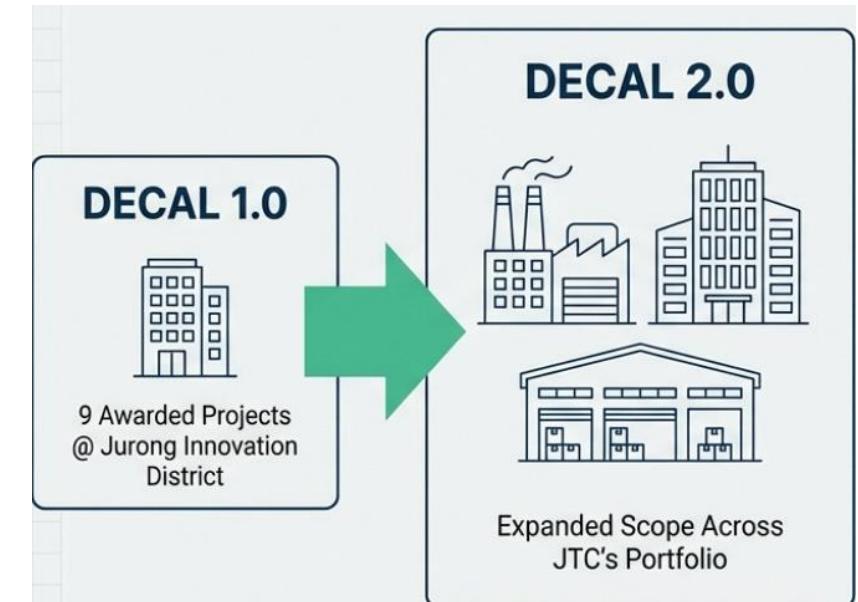
JTC DECAL2.0 invites solution providers to propose innovative solutions to improve sustainability performance and reduce the carbon footprint of industrial estates and buildings.

What's New

- Expanded Scope: Building on the success of 9 awarded projects under DECAL@Jurong Innovation District, DECAL 2.0 allows test-bedding across JTC's wider portfolio, beyond JID.
- Emphasis on scalable resource optimization and decarbonisation for ageing assets and diverse tenant profiles.
- Partnership: Co-developed with City Developments Limited (CDL) to advance solutions across both public and private sector contexts.

Collaboration and Innovation

The program fosters collaboration among private firms, research institutions, and public agencies to co-develop scalable solutions.



The Partnership Advantage: Fund, Test, and Scale Your Solution



Project Funding

- Awarded projects are eligible for funding provided by Enterprise Singapore (EnterpriseSG)
- Funding is applicable for test-bedding at JTC's sites or estates.



Real-World Test-beds

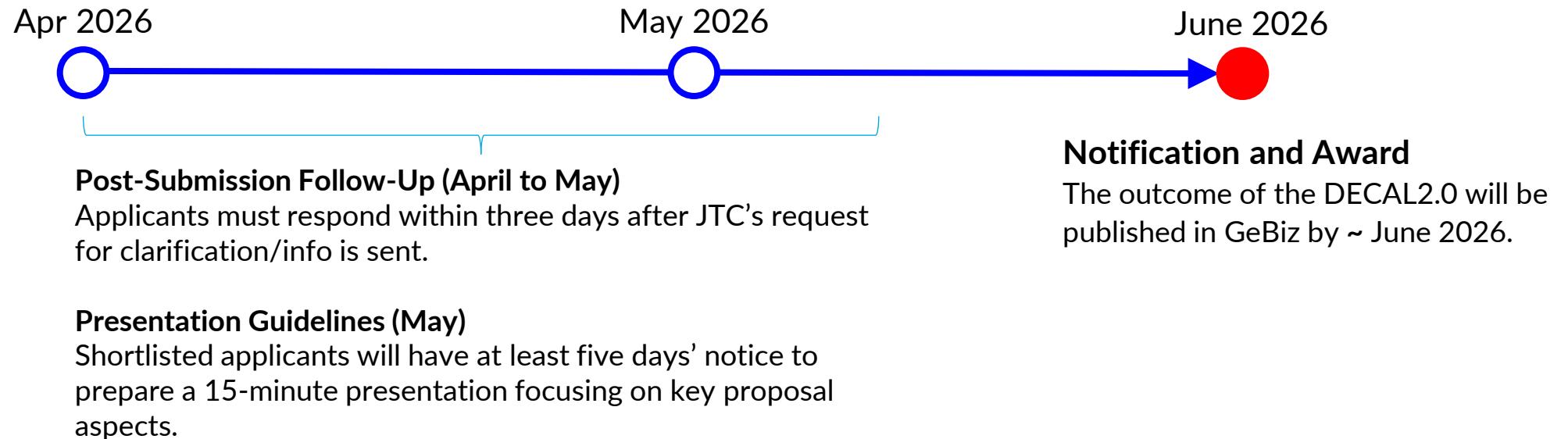
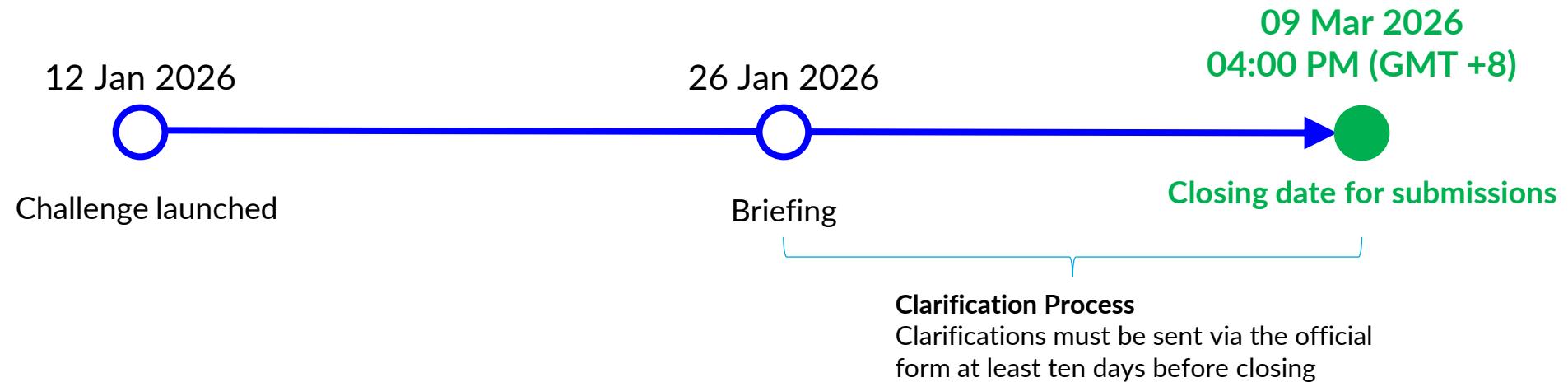
- Gain unparalleled access to JTC's wide portfolio of industrial estates and buildings
- Validate your technology in live, operational environments with diverse tenant profiles.



Unmatched Commercial Opportunity

- For solution aligning with CDL's objectives, CDL may engage you directly to explore further development or test-bedding at their sites.

Key Dates & Milestones



3.1 Submission Guidelines and Compliance

Submission - by 09 March 2026, 16:00 GMT+8 via the designated platform (IPI) with all required documents

All files are to be named in this manner:

- **Company Initials_Item Code** e.g. ABC_04_Project Proposal
- You are required to submit **Item Code 03b to 07b**
- You are required to submit the project team's CVs and any supporting documents under and OD if applicable, e.g. ABC_OD_CV.

2

| Item | Item Code | Submission Mode | |
|---|------------------------|-----------------|------------|
| | | IPI website | Tender Box |
| Tenderer's Proposal supported by the following documents (i) to (vi) to be labelled as follows: | | | |
| (i) Undertaking_PWM provision | 03b_Uddk_PWM provision | ✓ | |
| (ii) Project Proposal | 04_Project Proposal | ✓ | |
| (iii) Project Budget | 05_Project Budget | ✓ | |
| (iv) Quad chart | 06_Quadchart | ✓ | |
| (v) Declaration on Financial Solvency | 07a_DSOLV | ✓ | |
| (vi) Declaration On Progressive Wage Mark Eligibility | 07b_DPWM | ✓ | |
| Any other documents as otherwise indicated | OD | ✓ | |

The complete set of documents uploaded into JTC Decarbonisation Living Lab Innovation Call 2026 (DECAL2.0) site in para 6 comprises of documents with Item Code starting with 03b to 07b.

1

challenge statements, reflecting a collaborative effort to advance scalable and impactful sustainability solutions across both public and private sector contexts. The challenge aims to maximise renewable energy, improve resource efficiency by reducing energy and water consumption, and minimising waste, resulting in lower carbon emissions and better resource management. Through this innovation call, companies will have the opportunity to validate their ideas and capture new opportunities in the green economy.

For awarded projects, funding will be provided by Enterprise Singapore (EnterpriseSG), and will only be applicable for test-bedding at JTC's sites or estates.

Where solutions align with CDL's objectives, CDL may engage solution providers directly to explore further development or test-bedding opportunities at CDL's sites, independent of the EnterpriseSG funded programme.

Problem Statement

Please click on the challenge(s) below to view the details and submit your application.



Low Carbon Solutions - Maximising renewable energy potential for industrial buildings

[Read more ▶](#)



Low Carbon Solutions - Decarbonising backup power: Innovative solutions to eliminate diesel generator use in critical services

[Read more ▶](#)



Sustainable Water Usage - Reducing water-intensive cleaning through long-lasting, sustainable facade maintenance

[Read more ▶](#)

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<https://www.ipi-singapore.org/jtc/challenge/1089/statement-details.html>

Applicant(s) can download the documents at IPI Portal

3.2 Submission Guidelines and Compliance

Proposal Content - Each proposal should include

- Information on applicant/collaborators and project description – refer to **04_JTC Template on Project Proposal_DECAL2.0**
- Project budget and payment schedule – refer to **05_Project Budget_DECAL2.0**

Project Budget - covers manpower, equipment/software, consumables, other operating expenses (e.g. software licenses, transport of prototype) and Intellectual property.

- Applicants are **strongly encouraged to submit supporting documents** (e.g. quotations) **to justify budget items**, to provide at least 3 quotations for justification when requested.

Payment Schedule –

- Claims to be based on incurred costs since the last payment
- Expected performance must be measurable (e.g. 10 dBA noise reduction validated by modelling/simulation)
- Claim percentages recommended to be evenly distributed across milestones to reflect proportional project progress

PROJECT PROPOSAL FOR SUBMISSION TO JTC DECARBONISATION LIVING LAB INNOVATION CALL 2026 (DECAL2.0)

- The information in each proposal furnished to JTC will be treated with strict confidence, with the understanding that it shall be used or disclosed for evaluation, reference and reporting purposes. All sections are to be completed. Incomplete submissions will not be accepted. Completed submissions should be saved as one folder and titled “[Project Title] by [Company Name]”.
- To facilitate regulatory acceptance and public sector adoption, JTC will invite relevant public agencies as Public Agency Collaborators to the project if supported. Proposals submitted will be shared with the public agency, if they are interested.
- Sections B, C, D of the proposal (including any clarifications accepted by JTC) will form the content in Schedule 1 of the Project Agreement, if supported.

1. Cost Breakdown for Project

Please provide a detailed breakdown of cost estimates for the various categories in their corresponding sheets. The total costs will be automatically tabulated in Table 5 by Excel. All cost estimates are to be given in Singapore dollars and be supported with quotations where possible. The estimate for cost incurred will be assessed on value-for-money basis and be used to determine the payment schedule.

Table 5: Summary of Costing

| Vote | Cost | Requested Grant |
|-----------------------------|-------------|-----------------|
| Manpower | \$ - | \$ - |
| Equipment / Software | \$ - | \$ - |
| Consumables | \$ - | \$ - |
| Other Operating Expenses | \$ - | \$ - |
| Intellectual Property (IP)* | \$ - | \$ - |
| Total Project Cost | \$ - | \$ - |

16. Payment Schedule

State the payment schedule (filling in Table 7) based on: (a) a firm price; (b) cost recovery basis; and (c) referencing completed tasks from Table 3 of Section B as deliverables for each milestone, and Table 5 of Section C for the projected cost incurred in Project Proposal to be used as the amount to be paid. Payment to be disbursed according to the deliverables met.

Table 7: Payment Schedule

| Milestone & timeline | Description of deliverables | Percentage of awarded funding that can be unlocked for claims ² | Specify expected performance ³ |
|---------------------------------------|---|--|---|
| Kick-Off ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | No Claims is applicable for Kick off | Specify expected performance ³ |
| T ₀ +1month ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | ii |
| Milestone 1 | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| T ₀ +2months ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| Milestone 2 | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| T ₀ +4months ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| Milestone 3 | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| T ₀ +6months ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| Milestone 4 | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| T ₀ +8months ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| Milestone 5 | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| T ₀ +10months ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| Milestone 6 | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |
| T ₀ +12months ¹ | Upon delivery of progress report & completion of Task _____ (refer to timelines in Table 3 of Section B) ¹ | | |

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3.3 Funding and Requirement

1. Funding

- Total requested funding from JTC must not exceed S\$200,000 for project duration not more than 12 months.
- Funding covers manpower, equipment/software, consumables, other operating expenses (e.g. software licenses, transport of prototype) and Intellectual property.

2. Funding Disbursement

- Disbursement will be in Singapore dollars (SGD) on *reimbursement basis*, GST is not claimable.
- Funding amount will not be adjusted for exchange-rate fluctuations.
- Total disbursement cannot exceed the approved funding.

3. Funding Support Level

- Local SME-led applicants: Up to 70% funding support of approved supportable costs.
- Non-local-SME-led applicants: Up to 50% funding support of approved supportable costs.

4. Project Location and Exclusivity

- All R&D activities and teams must be Singapore-based; proposals must not have concurrent funding elsewhere

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3.4 Selection Process (2-Step)

Step 1 Critical Criteria

1. Eligibility

- 1.1 The Applicant shall be led by a private sector company. Local SME-led applicant can partner other private sector companies, Institute of Higher Learnings (IHLs), Research Institutes (RIs), public sector agencies and/or not-for-profit organizations
- 1.2 Requested budget not more than \$200,000
- 1.3 Project Duration not more than 12 months
- 1.4 Pass Financial Solvency (self declaration by applicants)

2. Debarment Status

- 2.1 Applicants who are debarred in participating in public sector tenders are not eligible to participate

3. Compliance to Instructions

- 3.1 Proposals should be submitted according to the requirements of the innovation call
- 3.2 Tenderer must provide a clear and complete response demonstrating how the proposed solution addresses the Challenge Statement

4. No Double Funding

- 4.1 Applicants must declare in the proposal submission if they have applied for or have received funding from other public agencies for the same or similar scope of work. If any Applicant is found to be untruthful in its declaration, its proposal shall be rejected

5. Minimum Score Threshold

- 5.1 The proposal must attain a minimum score of 50% out of 100% under Evaluation Criteria.

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3.5 Selection Process (2-Step)

Step 2 Evaluation Criteria - Proposals are assessed based on technical feasibility, scalability, impact, and alignment with sustainability objectives.

1. Novelty and Impact – 35%

- 1.1 Solution addresses the challenge statement(s) requirements
- 1.2 Solution is innovative and has potential to create new knowledge and/or applications
- 1.3 Solution is impactful to the industry
- 1.4 Clear understanding of existing processes and problem statement with viable proposal to tackle and improve current processes

2. Partnership and Eco-System Building – 10%

- 2.1 SME plays an integral role in the project, either as project lead or core technology provider

3. Price, Commercial Viability & Scalability – 35%

- 3.1 Solution demonstrates competitiveness against existing technologies and potential for commercialisation in Singapore and/or regional context
- 3.2 Industry co-funding
- 3.3 Budget is reasonable and justified

4. Experience and Track Record – 20%

- 4.1 Company track record and project team has relevant experience
- 4.2 Project team has clear allocation of roles and responsibilities
- 4.3 Project team has provided clear implementation schedule and project milestones

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3.6 Awarding of Projects

1. Award discretion

- JTC may award multiple applicants, make no award, or select the most advantageous proposal in the event of a tie.

2. Publication:

- Awarded projects will be published on GeBIZ.

3. Eligibility:

- Successful applicants (awardees) must have a valid GeBIZ account.

4. Funding conditions:

- Applicants must comply with EnterpriseSG's standard terms and conditions (to be shared prior to award).

5. Agreement:

- Successful applicants must sign the Project Agreement with JTC within one month.

6. Non-negotiable terms:

- All Project Agreement terms are non-negotiable – refer to **03_Specimen Agreement_DECAL2.0**

10. INTELLECTUAL PROPERTY

10.1. Background IP

10.1.3. The Collaborator hereby grants to JTC a non-exclusive, royalty-free, fully paid-up, irrevocable, worldwide, perpetual licence to Use all Background IP which it discloses or contributes to the Research Project:

(i) for purposes in connection with the Research Project; and

(ii) to enable JTC's Use of the Foreground IP, JTC Data and/or Work Products (where such Background IP is necessary for JTC to exercise its Rights of Use in the Foreground IP, JTC Data and/or Work Products) to fulfill JTC's statutory functions, powers and duties, and its internal, non-commercial, research and development and educational purposes.

Example of Intellectual Property clauses in the project agreement

10.2. Foreground IP

10.2.1. All Foreground IP (whether created solely by the Collaborator or jointly with JTC) from the Research Project shall be jointly owned by the Collaborator and JTC in equal undivided shares and by the Parties in accordance with the provisions of this Agreement.

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The DECAL 2.0 Challenge Statements

1



Low Carbon Solutions -

Maximizing renewable energy potential for industrial buildings

2



Low Carbon Solutions -

Decarbonizing Backup Power:
Innovative Solutions to Eliminate Diesel Generator Use in Critical Services

3



Sustainable Water Usage -

Reducing water-intensive cleaning through long-lasting, sustainable facade maintenance

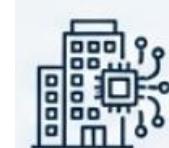
4



Zero Waste Industries -

Enhancing waste segregation to bolster recycling efficiency

5



Energy Efficient Buildings -

Transforming existing building operations for a low-carbon future

Clarification and Next Steps



Clarifications

Please submit clarifications via [this link](#) or QR code.

<https://go.gov.sg/decal2-clarification>



Review Official Documents

Participants should review the Cover Letter, Information document, and IPI portal resources to understand requirements fully.



Prepare and Submit Proposals

Next steps include finalizing concepts, securing partnerships, and compiling documents to submit competitive proposals.



Site Visit

JTC will be organising a site visit for the challenge statements. Interested parties are to register via [this link](#) or QR code.

<https://go.gov.sg/decal2-site-visit>





Thank you.



Technology Readiness Level (TRL)

| TRL | Description | Definition |
|-----|-----------------------------------|---|
| 0 | Idea | Unproven concept, no testing has been performed |
| 1 | Basic Research | Basic principles postulated and observed but no experimental proof available |
| 2 | Applied Research | Concept and application have been formulated |
| 3 | Critical Function | First Laboratory test completed; proof of concept |
| 4 | Concept Validation | Small Scale Prototype built in a laboratory environment; technology validated in laboratory |
| 5 | Validation of Integrated System | Component and/or validation in a relevant environment |
| 6 | Verification of Integrated System | System model or prototype tested in intended environment close to expected performance |
| 7 | Demonstration System | Operating in operational environment at pre-commercial scale |
| 8 | System Completed and Qualified | Manufacturing issues solved |
| 9 | Full commercial application | Technology available for consumers |