



# Don't waste heat, **CATCH** it!

## - Rules & Evaluation Criteria -

### Table of Contents

---

|                                                       |          |
|-------------------------------------------------------|----------|
| <b>Table of Contents.....</b>                         | <b>1</b> |
| <b>Introduction.....</b>                              | <b>2</b> |
| <b>Evaluation Criteria.....</b>                       | <b>2</b> |
| Innovation & Originality (20 points).....             | 2        |
| Pragmatic Feasibility (20 points).....                | 2        |
| Data, Research, & Estimation Quality (25 points)..... | 2        |
| Data Collection & Referencing.....                    | 3        |
| Quality of Estimations.....                           | 3        |
| Target Company Mapping.....                           | 3        |
| Clarity & Presentation (25 points).....               | 3        |
| Critical Thinking & Foresight (10 points).....        | 3        |
| <b>Competition Rules and Guidelines.....</b>          | <b>3</b> |
| Eligibility.....                                      | 3        |
| Submission Format.....                                | 3        |
| AI Usage and Authenticity.....                        | 4        |
| AI Authenticity Check.....                            | 4        |
| Intellectual Property (IP).....                       | 4        |
| Privacy and Data Protection.....                      | 4        |
| Code of Conduct.....                                  | 4        |

# Introduction

---

This document outlines the official rules, guidelines, and evaluation criteria for all submissions to the "Creative Applications in Thermal Capture & Harvesting Award". The purpose is to provide all participants with a transparent and comprehensive understanding of how proposals will be judged and the regulations governing this competition. We encourage all participants to read this document carefully before preparing and submitting their proposal. Our goal is to foster innovation, reward rigorous thinking, and identify promising real-world applications for a groundbreaking thermal battery technology.

## Evaluation Criteria

---

Each proposal will be evaluated by a panel of judges based on the following criteria, with a total of 100 base points available. A minimum score of 70/100 is required to receive a *Certificate of Participation*.

To ensure that all aspects of the proposal meet a minimum standard of quality, a proposal must achieve at least 60% of the available points in each individual criterion listed below. Failure to meet this threshold in any single category will make the submission ineligible for awards or the certificate, regardless of the total score.

### Innovation & Originality (25 points)

This criterion assesses the creativity, novelty, and conceptual reach of the proposed application. High scores will be awarded to ideas that are non-obvious, elegant, and present a new paradigm for thermal energy use.

Special consideration, in the form of 10 additional "bonus" points, will be granted to proposals that demonstrate exceptional "blue sky" thinking by applying the technology to unconventional fields outside the core focus of industrial waste heat (e.g., biotechnology, transportation, environmental science, or consumer applications).

### Pragmatic Feasibility (20 points)

This evaluates the technical realism of the proposal. The idea must be grounded in sound scientific and engineering principles. The judges will assess whether the proposed application could realistically be implemented in the target industry, considering potential barriers to adoption.

## Data, Research, & Estimation Quality (25 points)

This is a heavily weighted criterion that assesses the rigor of your research and analysis. It is composed of three sub-categories:

### Data Collection & Referencing

Quality, depth, and relevance of the data presented to define the problem and opportunity. All sources must be properly cited.

### Quality of Estimations

The clarity, transparency, and realism of the "Scale Estimation" section, including the justification for all assumptions and the accuracy of the calculations.

### Target Company Mapping

The quality and strategic insight demonstrated in the target company table. High scores will be given for a well-researched list that includes not just company names, but also specific departments, potential roles (e.g., Energy Manager, Sustainability Officer), and named contacts where possible (e.g., "Dr. Mario Rossi, Head of R&D").

## Clarity & Presentation (20 points)

This assesses the overall quality of the submitted document. The explanation must be clear, concise, and easy to understand for both technical and non-technical readers. This score also includes the quality and clarity of any figures, diagrams, or schematics used to illustrate the concept.

## Critical Thinking & Foresight (10 points)

This criterion evaluates the quality of the "Identified Gaps & Key Questions" sections. High scores will be awarded to proposals that demonstrate a deep understanding of what is needed to move a project from concept to reality, asking insightful, critical questions that anticipate business and engineering challenges.

## Competition Rules and Guidelines

---

### Eligibility

The competition is open exclusively to individuals and teams affiliated with a university, including students, researchers, and academic staff.

## Submission Format

All proposals must strictly adhere to the official proposal template provided. Submissions in other formats will not be considered.

## AI Usage and Authenticity

The use of AI-powered tools (e.g., large language models) for research, ideation, brainstorming, and text refinement is permitted and encouraged. However, the core concept, analysis, calculations, and strategic thinking must be the original work of the participant(s). The final submission should represent your unique insights and efforts.

### AI Authenticity Check

All submissions will be subject to analysis using AI detection tools. If a proposal is flagged as having a high probability of being generated by AI without substantial and meaningful author intervention, revision, and original thought, it will be automatically disqualified.

## Intellectual Property (IP)

Participants will retain full ownership of the intellectual property of their original ideas and concepts submitted in the proposal. By submitting a proposal, participants grant the competition organizers a non-exclusive, royalty-free, worldwide license to reproduce, publish, and display the submitted materials (in whole or in part) for non-commercial purposes related to the promotion and reporting of the competition, always with clear and proper attribution to the author(s).

## Privacy and Data Protection

Personal data collected from participants (e.g., name, email) will be used solely for the purpose of administering this competition, including contacting participants and announcing the winners. All personal data will be handled in compliance with the General Data Protection Regulation (GDPR). Data will not be sold or shared with third parties for marketing purposes. Anonymous or aggregated data may be used for statistical reporting on the competition.

## Code of Conduct

All submissions must be the original work of the participants. Plagiarism will result in immediate disqualification. Participants are expected to conduct themselves professionally in all communications related to the competition.