



solar decathlon 21 europe

WUPPERTAL GERMANY *... goes urban!*

extracted
content

call for teams_ addendum c
21_07_2019



Supported by:



on the basis of a decision
by the German Bundestag



WUPPERTAL GERMANY *... goes urban!*

6.1.2.2 **Project Overview (This section should constitute approximately 10% of the Technical Volume.)**

The Project Overview should contain the following information:

- **Background:** The Applicant should discuss the background of their organization, including the history, successes, and current research and development status (i.e., the technical baseline) relevant to the technical topic being addressed in the Full Application.
- **Project Goal:** The Applicant should explicitly identify the targeted improvements to the baseline technology and the critical success factors in achieving that goal.
- **Impact:** The Applicant should discuss the impact that this innovative design will have on the current state of the technology in this area.
- **Situation:** The Applicant should choose one of the three described situations presented in this document. If the chosen situation is not specific to Wuppertal, a short description of site and context should be provided.
- **Living Lab:** The Applicant should decide on one of the two options described in this document for the after competition situation of the Demonstration Unit (disassemble or leave on the site).
- **Visuals and / or graphics,** e.g., sketches, drawings, diagrams, etc., and a one-page 500-word maximum narrative summarizing the key elements of the ~~conceptual design solution~~. Refer to the Solar Decathlon Europe 2021 rules for additional information.

6.1.2.3 **Technical Description, Innovation, and Impact (This section should constitute approximately 30% of the Technical Volume.)**

The Technical Description should contain the following information:

- **Relevance and Outcomes:** The Applicant should provide a ~~detailed~~ description of the project. This section should describe the relevance of the proposed project to the goals and objectives of the Notice, including the potential to ~~meet specific technical targets of the SDE Rules or other relevant performance targets~~. ~~The Applicant should clearly specify the expected outcomes of the project.~~
- **Feasibility:** The Applicant should demonstrate the ~~technical~~ feasibility of the proposed project and capability of achieving the ~~anticipated performance~~ targets, including a description of previous work done ~~and prior results~~.
- **Innovation and Impacts:** The Applicant should describe ~~the current state of the art in the applicable field~~, the specific innovation of the proposed project, and the overall impact ~~on advancing the state of the art / technical baseline if the project is successful~~.



WUPPERTAL GERMANY *... goes urban!*

6.1.2.4 Workplan (This section should constitute approximately 40% of the Technical Volume.)

The Workplan should include a summary of the Project Objectives, Technical Scope, Work Breakdown Structure, Milestones, Go / No-Go Decision Points, and Project Schedule. The Workplan should contain the following information:

- **Project Objectives:** The applicant should provide a clear and concise (~~high-level~~) statement of the goals and objectives of the project as well as the expected outcomes.
- **Technical Scope Summary:** The applicant should provide a summary description of the overall work scope and approach to achieve the objective(s). ~~The overall work scope is to be divided by performance periods that are separated by discrete, approximately annual decision points (see below for more information on go/no-go decision points). The applicant should describe the specific expected end result of each performance period.~~
- **Work Breakdown Structure (WBS) and Task Description Summary:** The Workplan should describe the work to be accomplished and how the applicant will achieve the milestones, ~~will accomplish the final project goal(s), and will produce all deliverables.~~ The Workplan is to be structured with a hierarchy of performance period (approximately annual); ~~task and subtasks, which is typical of a standard work breakdown structure (WBS) for any project.~~ The Workplan shall contain a ~~concise~~ description of the specific activities to be conducted over the life of the project. ~~The description shall be a full explanation and disclosure of the project being proposed (i.e., a statement such as “we will then complete a proprietary process” is unacceptable). It is the applicant’s responsibility to prepare an adequately detailed task plan to describe the proposed project and the plan for addressing the objectives of this Call.~~
- **Go / No-Go Decision Points:** The applicant should provide a summary of project-wide go / no-go decision points at appropriate points in the Workplan. ~~A go / no-go decision point is a risk management tool and a project management best practice to ensure that, for the current phase or period of performance, technical success is definitively achieved and potential for success in future phases or periods of performance is evaluated, prior to actually beginning the execution of future phases.~~ Unless otherwise specified in the Call, the minimum requirement is that each project must have at least one project-wide go / no-go decision point for each budget period (12 to 18-month period) of the project. The Applicant should also provide the specific technical criteria to be used to make the go / no-go decision.



WUPPERTAL GERMANY *...goes urban!*

- **Project Schedule (Gantt Chart or similar):** The applicant should provide a schedule for the entire project, including task and subtask durations, milestones, and go / no-go decision points.
- **Project Management:** The applicant should discuss the Team's proposed management plan, including the following:
 - The overall approach to and organization for managing the work;
 - The roles of each Project Team member;
 - Any critical handoffs / interdependencies among Project Team members;
 - The technical and management aspects of the management plan, including systems and practices, such as financial and project management practices;
 - The approach to project risk management;
 - A description of how project changes will be handled;
 - If applicable, the approach to Quality Assurance / Control;
 - How communications will be maintained among Project Team members.

6.1.2.5 Technical Qualifications and Resources (Approximately 20% of the Technical Volume)

The Technical Qualifications and Resources should contain the following information:

- Describe the Project Team's ~~unique~~ qualifications and expertise, including those of key subrecipients.
- Describe the Project Team's existing equipment and facilities that will facilitate the successful completion of the proposed project; ~~include a justification of any new equipment or facilities requested as part of the project.~~ This section should also include relevant, previous work efforts, demonstrated innovations, and how these enable the applicant to achieve the project objectives.
- Describe the time commitment of the key Team members to support the project.
- Attach one-page resumes for key participating Team members as an appendix. Resumes do not count towards the page limit. Multi-page resumes are not allowed.
- Attach letters of commitment from all subrecipient / third party cost share providers as an appendix. Letters of commitment do not count towards the page limit.



solar decathlon europe

21

WUPPERTAL GERMANY *...goes urban!*

6.1.2.6 Attach any letters of support from partners / end users as an appendix (1 page maximum per letter). Letters of support do not count towards the page limit. For multi-organizational or multi-investigator projects, describe succinctly:

- The roles and the work to be performed by each PI and Key Participant;
- ~~Business agreements between the applicant and each PI and Key Participant;~~
- How the various efforts will be integrated and managed;
- ~~Process for making decisions on scientific / technical direction;~~
- ~~Publication arrangements;~~
- ~~Intellectual Property issues; and~~
- ~~Communication Plans~~
- ~~Concept and Design Elements~~

6.1.3 Budget

Applicants are required to complete a Budget. The budget must be for the project as a whole, including all work to be performed by the Applicant, Partners, and their Subrecipients and Contractors. Save the Budget in a single Microsoft Excel file using the following convention for the title “Number_Organization_3_Budget”.

6.1.4 Summary / Abstract for Public Release

Applicants are required to submit a one-page summary/abstract of their project. The project summary / abstract must contain a summary of the proposed activity suitable for dissemination to the public. It should be a self-contained document that identifies the name of the applicant, the project director / principal investigator(s), the project title, the objectives of the project, a description of the project, including methods to be employed, the potential impact of the project (i.e., benefits, outcomes), and major participants (for collaborative projects). This document must not include any proprietary or sensitive business information as the EEF and the University of Wuppertal may make it available to the public after selections are made. The project summary must not exceed 1 page when printed using standard DIN A4 paper with 1 cm margins (top, bottom, left, and right) with a typeface not smaller than 11 point. Save the Summary for Public Release in a single PDF file using the following convention for the title “Number_Organization_4_Summary”.



WUPPERTAL GERMANY *... goes urban!*

6.1.5 Summary Slide

Applicants are required to provide a single 16:9 ratio (Keynote, PowerPoint or other) slide summarizing the proposed project. The slide must be submitted in PDF format. This slide is used during the evaluation process. Save the Summary Slide in a single file using the following filename "Number_Organization_5_Slide". The Summary Slide template requires the following information:

- A project Summary;
- A description of the project impact;
- Proposed project goals;
- Any key graphics (illustrations, charts and / or tables);
- The project's key idea / ~~takeaway~~;
- Project title, Prime Recipient, Principal Investigator, and Key Participant information.

6.1.6 Letters of Commitment

Applicant will need a letter of commitment from the leadership (Head, President, or Rector of universities) of all partner institutions that make up the applicant Team consortium (if applicable). Please save these as one page PDF named: "Number_Organisation_6_Partner".



WUPPERTAL GERMANY *... goes urban!*

7_ evaluation criteria

~~The evaluation process consists of multiple phases that each includes an initial eligibility review and a thorough technical review. Rigorous technical reviews are conducted by reviewers that are experts in the subject matter of this Call for Teams. Ultimately, the EEF and the University of Wuppertal will consider the recommendations of the reviewers, along with other considerations such as program policy factors, in determining which applications to select.~~

7.1 **Criterion 1: Technical Innovation and Design (Weight: 25%)**

~~The proposal demonstrates that the institution(s) is taking an aggressive yet practical approach to the project, maximizing its chances of success by studying past competitions and committing to a design philosophy that demonstrates it has learned valuable lessons from them. The proposal also demonstrates innovations with a high likelihood of success, with potential benefit to professional home builders and energy efficiency and renewable energy industries.~~

7.2 **Criterion 2: Sponsorship Engagement and Team Support (Weight: 25%)**

~~The proposal demonstrates a clear understanding of the costs associated with the project and the need for obtaining sufficient sponsorship or other funds to support all phases of the two-year project. Sponsorship engagement has been adequately planned. The level of available or obtainable equipment, instrumentation, and facilities is adequate. Industry involvement in the project is considered.~~

7.3 **Criterion 3: Organization and Project Planning (Weight: 20%)**

~~The proposal demonstrates that the Team understands all the activities involved in the project. The activities are planned and organized adequately to ensure successful completion.~~

7.4 **Criterion 4: Conceptual Intention (Weight: 15%)**

~~The proposal demonstrates an energy efficient, solar powered Demonstration Unit at the conceptual design stage. The conceptual design communicates ideas, character, and forms of an architectural design including aesthetics, building envelope, and solar components. The design offers a sense of aesthetic inspiration or delight. The design demonstrates a potential to benefit professional home builders.~~



solar decathlon europe

21

WUPPERTAL GERMANY *... goes urban!*

7.5 **Criterion 5: Curriculum and Integration (Weight: 15%)**

The proposal demonstrates that the institution(s) has an architecture and / or building science curriculum and that the Solar Decathlon project is well-integrated into the students' course work. ~~The institution(s) entices top students to make long-term commitments to the project by offering scholarships, independent study credit, paid research assistantships or other paid or academic compensation.~~

7.6 **Other Selection Factors**

~~In addition to the above criteria, the Jury may consider the following factors in determining which Full Applications to select for the Competition:~~

- ~~• The level of industry involvement and demonstrated ability to commercialize energy or related technologies;~~
- ~~• Whether the proposed project is likely to lead to increased employment and manufacturing in Europe;~~
- ~~• Technical, market, organizational, and environmental risks associated with the project;~~
- ~~• Whether the proposed project will accelerate technological advances in areas that industry by itself is not likely to undertake due to technical and financial uncertainty;~~
- ~~• Geographic and / or Technological Diversity;~~
- ~~• Whether the proposed project will advance the objectives of the UN Sustainable Development Goals, as designated by the United Nations Development Program:~~
 - ~~• No Poverty~~
 - ~~• Zero Hunger~~
 - ~~• Good Health and Well-Being~~
 - ~~• Quality Education~~
 - ~~• Gender Equality~~
 - ~~• Clean Water & Sanitation~~
 - ~~• Affordable & Clean Energy~~
 - ~~• Decent Work & Economic Growth~~
 - ~~• Industry, Innovation & Infrastructure~~
 - ~~• Reduced Inequalities~~
 - ~~• Sustainable Cities & Communities~~
 - ~~• Responsible Consumption & Production~~
 - ~~• Climate Action~~
 - ~~• Life below Water~~
 - ~~• Life on Land~~
 - ~~• Peace, Justice & Strong Institutions~~
 - ~~• Partnerships for the Sustainable Development Goals~~