

# 2027 ASC Regions 6 & 7 Student Open Competition Pre-Problem Statement

## *Sustainability Problem*

Sponsored by

# SKANSKA

Welcome to the Open Competition Sustainability Problem at the 2027 ASC Regions 6 & 7 Student Competition in Sparks, Nevada. We are excited to showcase some of our projects and methodologies to make them safer jobsites, more environmentally conscious, and more collaborative.

We strive to develop and construct buildings and civil infrastructure that have near-zero effects on the environment, in aspects our projects influence most: energy, carbon, materials and water. We do this in collaboration with our customers and supply chain. We continually improve the green credentials of our people, projects, products, and services to help our customers in achieving their green objectives. With ongoing training and sharing of best practices, we further drive green thinking into our culture and ways of working. We offer green solutions that add value to our customers, our business, and the Earth.

By its nature, construction has the potential to create negative impacts on the natural environment when not actively managed. Done well, it has the potential to have a significant positive impact. Based on the strong belief that we can make a major contribution to a more sustainable world; Skanska is committed to proactive environmental management at all levels from local to global.

Our objective is to help students understand how to integrate sustainability into any construction project. We hope that this year's problem will help to prepare you for a future in deep green thinking and sustainable construction. The competition is a challenging and stressful environment, not unlike your future in project management, and we appreciate that each of you is dedicating a great deal of time and effort by participating. Thank you for your involvement and for your desire to be a green leader.

We look forward to your response by January 15, 2027, and the competition in February 2027. Good Luck!

Sincerely,



Frankie Alvis

Skanska Problem Statement Team Lead





## **Problem Overview**

In keeping with the goal to drive green thinking into our culture and ways that we work, this problem is meant to show you how jobsites are changing to be more sustainable and resilient, how the construction industry is lessening the negative impact it has on the environment.

Teams will focus on construction means and methods this year through the lens of multiple Skanska projects.

Students will be expected to have a familiarity with green ratings systems, including but not limited to LEED, Living Building Challenge, Envision, SITES, Fitwel, and WELL\*. Although the problem statement may not be centered around any one of these certifications, teams can study the rating systems to understand best design and construction practices for building sustainably.

\*Please note that this is not meant to be an exhaustive list of the green rating systems that may be utilized during the competition. The problem statement may include these or other green certification programs at the judges' discretion.

## **Problem Statement Understanding**

The idea behind the general project overview is to both make the problem statement challenging and, more to the point, to help students understand that being a leader in sustainability is about more than any one project's particular certification pursuit. Many certifications do not actually address most construction practices. Several industry leaders are exploring ways to minimize their direct impact to the environment, and this problem statement will examine some of those methods. Topics could include:

- Certification and rating systems
- Worker wellbeing
- Innovative construction technology
- Interaction with adjacent environments
- Data analytics
- Stakeholder values
- Jobsite resiliency and emergency preparedness

Skanska is committed to contributing actively to a green society and is equally committed to help instilling that same passion into the next generation of builders.

|                                                                           |                                                                                                                                       |                                                                                                                             |                                                                                                 |                                                                           |                                                                                |                                                                                                                                                                                                     |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>5</b> GENDER EQUALITY<br>                                              | <b>8</b> DECENT WORK AND ECONOMIC GROWTH<br>                                                                                          | <b>9</b> INDUSTRY, INNOVATION AND INFRASTRUCTURE<br>                                                                        | <b>11</b> SUSTAINABLE CITIES AND COMMUNITIES<br>                                                | <b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION<br>                      | <b>13</b> CLIMATE ACTION<br>                                                   | <b>16</b> PEACE, JUSTICE AND STRONG INSTITUTIONS<br>                                                                                                                                                |
| <b>Goal 5</b><br>Achieve gender equality and empower all women and girls. | <b>Goal 8</b><br>Promote sustained inclusive and sustainable economic growth, full and productive employment and decent work for all. | <b>Goal 9</b><br>Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation. | <b>Goal 11</b><br>Make cities and human settlements inclusive, safe, resilient and sustainable. | <b>Goal 12</b><br>Ensure sustainable consumption and production patterns. | <b>Goal 13</b><br>Take urgent action to combat climate change and its impacts. | <b>Goal 16</b><br>Promote peaceful and inclusive societies for sustainable development, provide access to justice for all and build effective accountable and inclusive institutions at all levels. |

## **Prequalification Statement (5 points)**

The Intent of the Prequalification Statement is for Skanska's Problem Statement Team to get acquainted with the team members.

The Prequalification Statement shall be based on actual resumes and experiences of the individuals on the project team. The prequalification shall include, at a minimum, the following information:

- **Cover Letter and Introduction**
- **Team Contact:** Please identify the main team contact person and provide their email address for all electronic correspondence, notifications, and other instructions.
- **Team Members:** Identify all team members. Include a one-page document with all team members' photos and names. Please ensure this document has a white/lightly colored background.
- **Team Resumes:** Include everyone's information in the form of a resume. Identify green achievements, accreditation and training, applicable work or school experience and any other sustainable awards of note. Please include a photo of each team member.
- **Individual Statements:** Please provide a statement from each team member regarding why they are competing and what they hope to gain from participating in the competition.

Team member changes after submission are acceptable so long as they comply with ASC Region 6 & 7 2027 Student Competition rules and guidelines. Resumes and statements for changed team members would be appreciated.

## **Format Requirements—Prequalification Statement**

In keeping with sustainable practices, all proposers will provide an electronic submission of the Prequalification Statement. Email attachments are the only acceptable means of submitting materials. All electronic submissions must be in PDF format.

The following proposal format must be adhered to:

- Maximum submission of 20 pages, including your cover letter, resumes, statements, and any other documentation necessary to support your submission.
- Please ensure that all font, text size and border selections are coordinated and organized to ensure that the submission appears to be a cohesive package representative of your team.

In preparation for the competition, the selection committee requests that your team submit their Prequalification Statement detailed above **no later than 2:00pm Pacific Standard Time on January 15, 2027 to ASC2027@skanska.com**. It is important to note that this statement is considered part of your overall selection criteria and is a part of the scoring for the Problem Statement. Late submissions will be deducted 25% of their score. Failure to submit this Prequalification **will not** disqualify your team from further participation.

Questions can be directed to Frankie Alvis at ASC2027@skanska.com

