

# THE SUSTAINABILITY REPORT

## SDG 12



**2023-2024**

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## BACKGROUND

Gulf University is committed to supporting the Kingdom's efforts towards achieving SDG 12: Responsible Consumption and Production. GU actively promotes sustainable practices within its campus and community while Sustainable Engineering Hub is on of example. By organizing events such as waste reduction campaigns, energy efficiency initiatives, and sustainable procurement programs, the university is reducing its environmental footprint. Additionally, GU encourages students and staff to adopt sustainable lifestyles through educational workshops and awareness campaigns.

By promoting a culture of responsible consumption and production, the university is making a significant contribution to the global goal of ensuring sustainable consumption and production patterns.

### GU Sustainability Week | 20<sup>th</sup> -24<sup>th</sup> October 2024 | Gulf University -Bahrain Campus

The “Sustainability Week 2024” organized by Gulf University, Kingdom of Bahrain from the 20th to the 24th of October 2024 was a significant initiative dedicated to promoting sustainable practices aligned with the United Nations' 17 Sustainable Development Goals (SDGs). This event brought together a diverse array of participants, including students, faculty, staff, industry partners, experts, government representatives, and community members. Through a range of activities and initiatives, this event aimed to promote environmental, social, and economic sustainability efforts. By bringing together academia, industry, and the community, Gulf University's Sustainability Week 2024 has made a significant contribution to promoting sustainability in Bahrain and beyond.

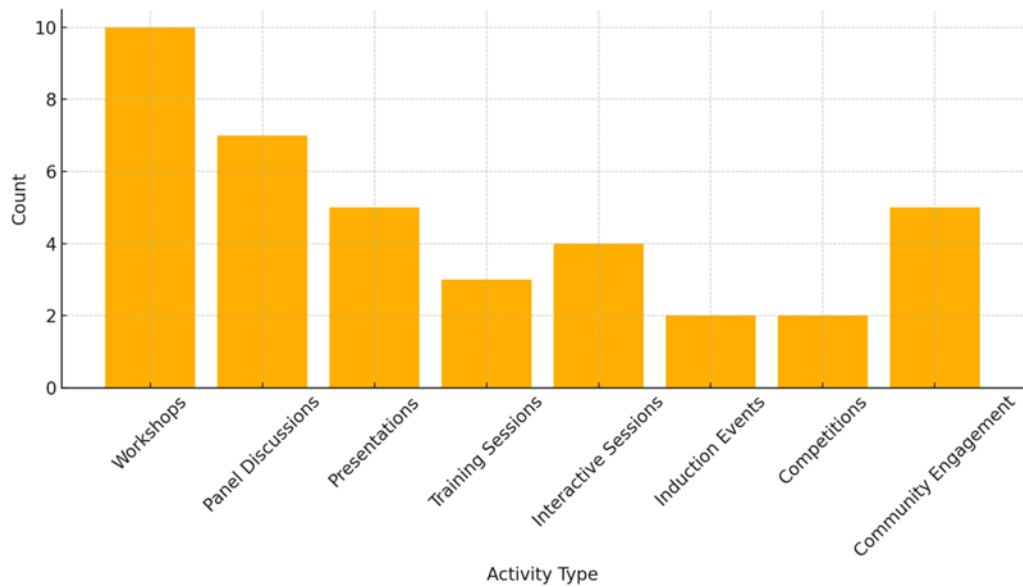
## ACTIVITIES DURING SUSTAINABILITY WEEK

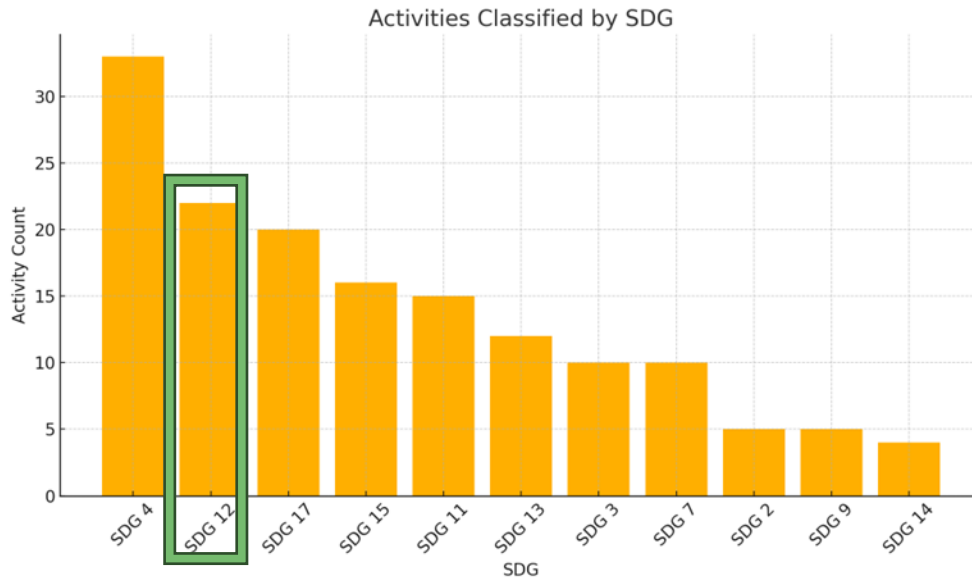
This section provides an overview of all activities conducted during the Sustainability Week, broken down by type and specific examples.

**Table 1:** GUSW Activities Count

| GUSW Activity Type | Count | Topic/Scope   |
|--------------------|-------|---|
| Workshops          | 10    | Energy Conservation, Recycling & Waste Management, Nutrition, Digital Solutions, Clean Energy |
| Panel Discussions  | 7     | Climate Action, Biodiversity, Circular Economy, Urban Planning                                |
| Presentations      | 5     | SDG Overview, Climate Change, Smart Mobility, Urban Design                                    |

|                                 |     |   |
|---------------------------------|-----|---|
| Training Sessions               | 3   | “AI & Metaversity for Sustainable Development” Workshop, ESG Engagement, Smart Cities |
| Interactive Sessions            | 4   | Marine Conservation Awareness, SDG Exploration, Tree Planting, Community Wellness     |
| Induction Events                | 2   | Sustainability Club Formation, Campus Clean-Up Challenge                              |
| Competitions                    | 2   | SDG Quiz, Best Innovative Research/Project Competition                                |
| Community Engagement Activities | 5   | Farmers Market, Potluck Lunch, Tree Planting, On-Campus Clean-Up, Donation Drives     |
| Key Speakers/Panelists          | 20+ | Including representatives from Ministries, KPMG Bahrain, UNIC, Bahrain Science Center |





Total 15 activities conducted for SDG 11 Sustainability Cities and Communities

In alignment with SDG 11, Sustainable Cities and Communities, Gulf University organizes a diverse range of activities including workshops, panel discussions, presentations, training sessions, interactive forums, induction events, competitions, and community engagement initiatives. These events feature key speakers and panelists, fostering dialogue and collaboration to drive progress in creating sustainable urban environments and inclusive communities.

## Sustainability Week - Day Three: Circular Economy

### SDG 12: Responsible Consumption and Production



#### **Activities:**

- Presentation, workshops & panel discussions (Call for Contribution)
- Talk shows and poster sessions for Academics/Students Research/Projects towards SDGs (Call for Project)
- Showcasing local businesses and organizations that have successfully embraced circular economy practices: The Big Exhibition
- Best Innovative Research/Projects Competition Panel & Rewards
- The “SDGs Big Quiz” Competition & Rewards.
- Green Lifestyle & “Eat Local” themed lunch.

## **Sustainable Engineering Hub** Project | Gulf University Campus

A Sustainable Engineering Hub plays a vital role in achieving SDG 12: Responsible Consumption and Production through:

- **Promoting Sustainable Design and Innovation:** By advocating for the creation of innovative solutions that reduce resource consumption and waste generation.
- **Promoting Circular Economy Practices:** Emphasizing the importance of principles like reducing, reusing, and recycling materials to minimize environmental impact.
- **Educating the Next Generation:** Providing training programs and workshops to prepare upcoming engineers with the expertise to design sustainable products and systems.
- **Collaborating with Industry:** Partnering with businesses to develop and implement sustainable technologies and practices.
- **Supporting Sustainable Infrastructure:** Encouraging the construction of eco-friendly infrastructure projects such as green buildings and renewable energy systems.

Through these efforts, a Sustainable Engineering Hub significantly influences the promotion of sustainable consumption and production patterns, contributing to the goals of SDG 12.

### **The Approach**

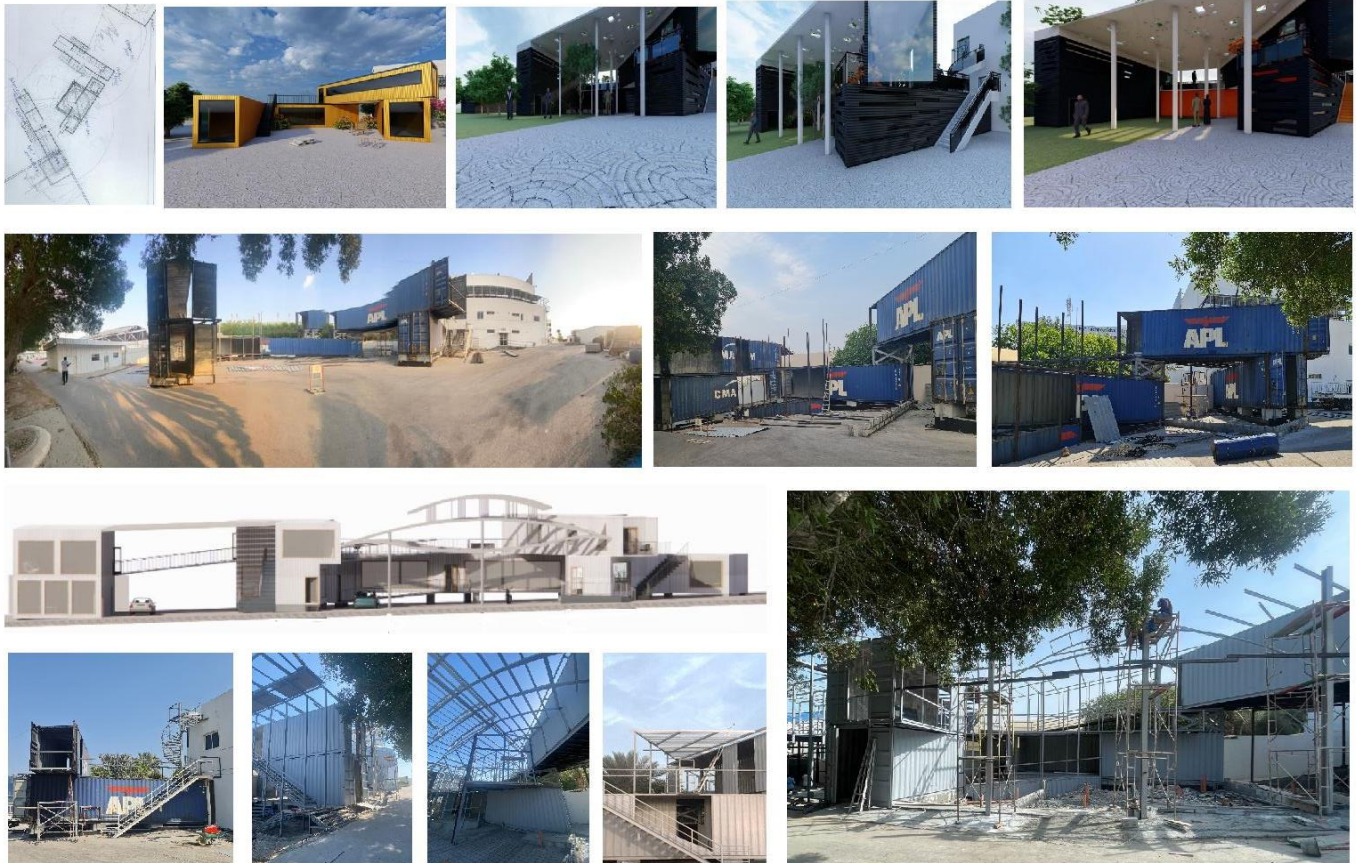
An innovative space with multidisciplinary and collaborative work environments, formal and informal experiential learning environments to co-think, co-create and co-develop initiatives, actions and alternatives in alignment with university vision towards Lifelong Learning and Sustainable Development Goals. is developed via a collaborative work involving both engineering staff and students. The design development considers a 3Rs approach where overall project components, structures and materials promote a life cycle extension process, aligned with university initiatives for climate actions. The progression of the designed environment with recycled shipping containers supports a well-established real-life observation for campus habitants, raising their awareness towards sustainable development and the role of community engagement in a higher education institution, revealing how small actions can lead to big changes.

### **The Development Process**

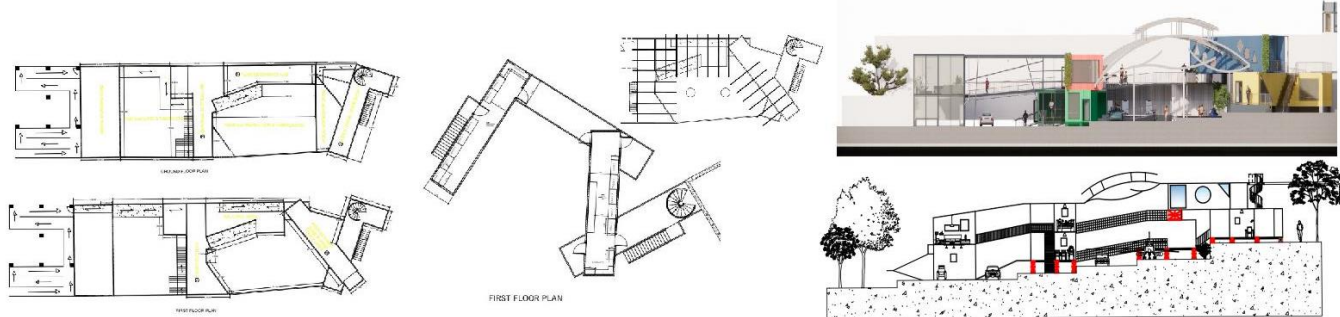
The design of the Sustainable Engineering Hub refers a well-established process where both pre-design development phase and design development phase were considered with reference to relevant conceptual and technical approaches in regard of the architectural reuse of shipping containers to create living, working and studying environments. Additionally, within the pre-design phase, range of environmental and life cycle studies were deployed with reference to international similar projects in the context of Higher

Education institutions or other applications and contexts. The design development examined such trendy sustainable solutions in terms of feasibility and viability to initiate designing the Hub Project using five 40ft old shipping containers, exploring all functional and aesthetic alternatives with a focus on their environmental aspects, qualities and impact on campus habitants experience, thinking and awareness towards sustainability... As a way to think globally and act locally...

### Initial Design & Site Progression



Design Development, Architectural Plans, 3D Renders and Execution Phase:



Compiled & edited by:

**Dr. Tanvir Mahmoud Hussein, PMP®**  
*Head, Accreditation and Ranking Unit*  
Gulf University, Kingdom of Bahrain