

# THE SUSTAINABILITY REPORT

## 13 CLIMATE ACTION



2024/2025

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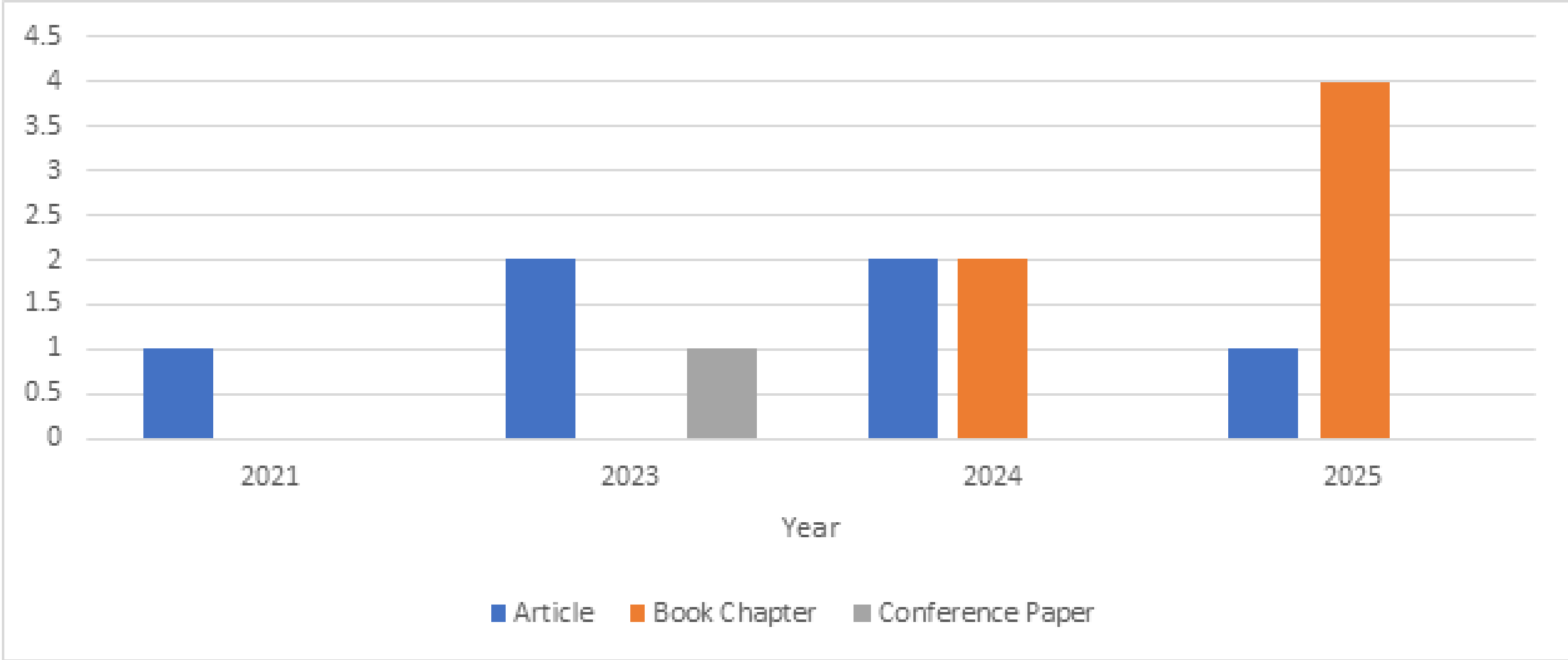


Introduction

Gulf University (GU) remains steadfast in advancing Sustainable Development Goal 13 – Climate Action, addressing the global challenge of climate change through education, research, and operations. Throughout 2024–2025, GU implemented targeted initiatives to reduce its environmental footprint, foster climate resilience, and empower students and communities to act sustainably. Under the leadership of the Sustainability and Development Makers Center (SDM-C) and in partnership with the Supreme Council for Environment (SCE), GU emphasized sustainable infrastructure, environmental education, and collaboration for carbon neutrality.

During the academic year 2024–2025, CECEC implemented multiple initiatives focused on climate awareness, energy conservation, afforestation, and sustainable community engagement, in collaboration with schools, ministries, and environmental organizations. These efforts support the Kingdom of Bahrain’s national sustainability vision and contribute to the UN 2030 Agenda.

SDG13 Publications by Type & Year



SDG 13 Articles in 2024-2025 (July)

Authors Name	Title	Journal / Book Series	Type	Year
Majekodunmi, T.B., Shaari, M.S., Ridzuan, A.R.,...Vennila, J., Al-Absy, M.S.M.	The twist of longevity: exploring the convergence of the health production function and life-cycle hypothesis in Malaysia’s life expectancy through savings	Discover Sustainability	Article	2025
Ateeq, A.A.	From Oil to Sustainability: Bahrain’s Transformation Through CSR	Studies in Systems Decision and Control	Book Chapter	2025
Abdallah, M.A.B., Fatla, O.M.H.	A Review on the Comparison of Diesel and Biodiesel Fuels on the Spray Characteristics	Studies in Systems Decision and Control	Book Chapter	2025
Hydrose, A., Alex, A.R., Junaid, R.	Transitioning to Sustainability: Analysing Energy Consumption Trends and Renewable Energy Potential in Bahrain	Studies in Systems Decision and Control	Book Chapter	2025

Alawsi, H., Al-Ayash, A.A., Ibrahim, F.M., Mohammed, M.N.	Sustainability in E-Commerce: Green Practices and Their Influence on Digital Trade	Studies in Systems Decision and Control	Book Chapter	2025
Khurshid, N., Butt, N.A., Fiaz, A.,...Tabash, M.I., Al-Absy, M.S.M.	Do Climate Change Matter for Agricultural Production in an era of Globalization? Empirical Insights from Pakistan	International Journal of Energy Economics and Policy	Article	2024
Tabash, M.I., Al-Absy, M.S.M., Hannon, A.M.T.	Modeling the Nexus between European Carbon Emission Trading and Financial Market Returns: Practical Implications for Carbon Risk Reduction and Hedging	Journal of Risk and Financial Management	Article	2024
Mohammed, M.N., Aljibori, H.S., Jweeg, M.J., Abdullah, O.I., Alfiras, M.I.I.	Systematic Design and Simulation of a Home Stand-Alone PV System for a Located in Baghdad City	Studies in Systems Decision and Control	Book Chapter	2024
Hashim, N., Neo, T.G., Mohammed, M.N.,...Jameel al-Tamimi, A.N., Alfiras, M.I.I.	Toward Sustainable Smart Cities: A New Approach of Solar and Wind Renewable Energy in Agriculture Applications	Studies in Systems Decision and Control	Book Chapter	2024

### Key Climate Action Initiatives

- Carbon footprint assessment and monitoring across campus facilities.
- Climate awareness programs integrated into Sustainability Week 2024.
- Research and innovation projects on renewable energy, carbon reduction, and green mobility.
- Partnership with national environmental authorities for policy dialogue and knowledge sharing.

Initiative	Date / Duration	Scope / Collaboration	Participants / Impact	SDG 13 Focus
Plant a Tree Initiative (6 locations)	Ongoing, 2024–2025	School visits to Al Hekma Intl., Al Eman, Al Falah, Al Mahd, New Indian School & Al Hikma Association for Retirees	Students & community members actively planted saplings and learned about environmental benefits	Afforestation & climate awareness program to increase carbon sequestration and green spaces
Campus Tree Planting Event	April 2025	Led by CECEC with faculty, students and staff	> 100 participants planted native trees on campus grounds	Promoted environmental responsibility & collective action against climate change
Earth Hour 2025	22 March 2025	Global collaboration with govt. and environmental organizations	University community turned off non-essential lights (8:30 – 9:30 PM)	Energy conservation and public awareness on carbon footprint reduction
Environmental Clean-Up & Green Campus Activities	Throughout 2024–2025	Student volunteers and staff	> 60 community service initiatives under Pillar 6	Waste management and climate education linked to SDG 13
Use of Recycled Materials and Green Facilities	Continuous	University-wide infrastructure initiative	Incorporated solar panels and green areas	Reduced GHG emissions and enhanced energy efficiency

Climate Awareness and Community Outreach

Initiative	Description	Date	Partners	Key Result
Campus Carbon Footprint Program	Comprehensive audit assessing energy, transport, and waste emissions.	Oct 2024	SDM-C, Facilities Dept.	Established GU’s baseline CO2 emission index.
Climate Action Day – Sustainability Week 2024	Full-day awareness event featuring expert talks, exhibitions, and student pledges for carbon reduction.	Oct 2024	SDM-C, SCE, Student Council	300+ participants signed the GU Climate Pledge.
Green Mobility Campaign	Promoted cycling, walking, and carpooling to campus to reduce transport emissions.	Nov 2024	CECEC, Engineering Faculty	20% increase in sustainable commuting.
Tree Planting for Tomorrow Drive	Large-scale campus and community tree-planting initiative to offset emissions.	Feb 2025	CECEC, Municipality	500 trees planted locally.

Training, Research, and Innovation Activities

Activity	Objective	Participants	Outcomes
Workshop: Understanding Climate Science	Build literacy in climate data and global policy frameworks.	80 students	Improved knowledge on IPCC goals & climate policy.
Training: Carbon Accounting & Sustainability Reporting	Train faculty/staff to measure and report emissions.	50 staff members	Developed GU carbon tracking system.
Research Grant: Climate Solutions Lab	Support projects developing mitigation technologies.	3 research teams	Produced two low-cost prototypes for energy reduction.
Innovation Challenge: Green Campus 2030	Encourage interdisciplinary projects reducing GU’s carbon footprint.	10 student teams	Top 3 projects piloted in SDM-C.

Alignment with SDG 13 Targets

UN SDG 13 Target	CECEC Contribution 2024–2025
13.1 – Strengthen resilience and adaptive capacity to climate-related hazards	Tree planting in schools and campus created micro-green zones to combat heat and support air quality.
13.3 – Improve education, awareness and capacity on climate change mitigation and impact reduction	Environmental workshops, Earth Hour campaigns, and community visits educated youth and public on climate responsibility.
13.b – Promote mechanisms for raising capacity for effective climate change-related planning	Integration of climate activities into university operations through CECEC Pillars 4 and 6 – full alignment with national climate strategies.

Institutional Climate Strategies and Policies

Climate Action Framework (2024):  
A university-wide roadmap for reducing GHG emissions and enhancing climate resilience.

Energy Efficiency and Renewable Energy Policy:  
Encourages solar installations, LED retrofitting, and smart metering systems.

Sustainable Transport Plan:  
Incentivizes carpooling and public transit for students and staff.

Waste Reduction and Recycling Policy:  
Minimizes waste through segregation, composting, and recycling.  
Partnership with SCE: Joint data sharing and reporting on national climate progress.

These policies align with SDG Targets 13.1, 13.2, and 13.3 – strengthening resilience, integrating climate measures into policy frameworks, and enhancing education and awareness.

Impact Highlights and Key Performance Indicators (KPIs)

Indicator	Impact Summary	Quantitative Result (2024–2025)
Reforestation & Green Drives	Trees planted as part of the Climate Action Drive and community outreach.	500 trees planted
Sustainable Mobility	Campaigns promoting walking, cycling, and carpooling to reduce emissions.	20% increase in sustainable mobility
Carbon Monitoring	Development of a university-wide baseline for tracking carbon emissions.	Carbon baseline index developed
Research & Innovation	Academic studies on climate adaptation, mitigation, and sustainability.	5 research outputs



Key Performance Indicators

KPI	Indicator Description	2024–2025 Result	Status
KPI 1	Number of trees planted on campus and community areas	500	Achieved
KPI 2	Reduction in energy use through efficiency projects	10%	On track
KPI 3	Participation in climate awareness events	600+	Exceeded
KPI 4	Number of climate-related publications	5	Achieved
KPI 5	Carbon baseline index developed	1 system	Achieved

Conclusion

2025 academic year solidified Gulf University’s role as a regional model for climate responsibility and environmental stewardship. By integrating research, education, and community outreach, GU ensures that climate awareness translates into real action.

Through tree planting, Earth Hour participation, community training, and awareness campaigns, the Community Engagement and Continuing Education Centre have significantly advanced SDG 13 – Climate Action in AY 2024–2025.

These initiatives reflect Gulf University’s strategic commitment to a sustainable and climate-resilient future for Bahrain and the global community.  
Future Commitments for SDG 13 (2025–2026):

Action plan for next year

- Establish an annual GU Carbon Report to track progress toward net-zero targets.
- Launch the “Green Mobility Lab” to pilot sustainable transport solutions.
- Strengthen research collaboration with regional climate institutes.
- Integrate climate risk modules into curricula across colleges.

Through its ongoing climate action initiatives, Gulf University continues to lead by example building a resilient, sustainable, and climate-aware academic community for Bahrain.

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