

THE SUSTAINABILITY REPORT



SDG 12 — RESPONSIBLE CONSUMPTION & PRODUCTION

2025 / 2026



Table of Contents

1. Overview — SDG 12: Responsible Consumption and Production
2. Key Highlights for Academic Year 2025–2026
3. Non-Print Campus & Paper/Plastic Reduction — Quantified Performance
4. Waste Management Performance
5. SDM-C Flagship Initiatives
6. DTC — Candidate Digital Contributions (Unconfirmed SDG Tagging)
7. GU Research & Publications Related to SDG 12
8. Summary of Impact and Key Performance Indicators (KPIs)
9. Conclusion and Future Directions



1. Overview — SDG 12: Responsible Consumption and Production

Gulf University's contribution to SDG 12 (Responsible Consumption and Production) during AY 2025–2026 is driven almost entirely by SDM-C, with CECEC reporting zero activity against this goal (confirmed no mentions anywhere in that report — CECEC's own SDG Contribution Chart does not include an SDG 12 row) and DTC contributing indirectly through digital-transformation projects rather than any explicitly-tagged initiative.

SDM-C's strongest research signal comes from ICSDI 2025, where SDG 12 was the joint-largest research theme of the conference at 12.6% of accepted papers, while GUSW2025 addressed SDG 12 across 6 of 35 activities (17.1%). The quantified operational data not previously compiled for this report: a 29.7% two-year reduction in paper and plastic consumption, 100% digital exam coverage, and waste-treatment rates of 78.8% (organic), 75.5% (inorganic), and 77.6% (toxic) — moving this goal from qualitative description to measurable performance.

2. Key Highlights for Academic Year 2025–2026

- ICSDI 2025: SDG 12 was the joint-largest research theme, representing 12.6% of accepted conference papers (tied with SDG 7).
- GUSW2025: SDG 12 addressed through 6 of 35 activities (17.1%).
- Non-Print Campus: total paper/plastic consumption fell from 16.5 tons (2023–24) to 11.6 tons (2025–26) — a 29.7% two-year reduction; per-capita generation fell from 10.0 to 6.9 kg/person (–31%).
- Digital exam coverage reached 100% of courses (up from 85% in 2023–24) via Moodle LockDown Browser.
- Shared printing devices consolidated by 40% (45 → 27 units); recycled cup/paper usage expanded to 97% campus coverage.
- Waste treatment rates: 78.8% (organic), 75.5% (inorganic non-toxic), and 77.6% (toxic)
- A Zero Single-Use Plastic policy is planned for campus events as a 2025–2026 strategic priority.
- Carbon-free Campus Initiative and GU-SFI: both explicitly mapped to SDG 12 by SDM-C.
- GU Sustainability Club (GUSC): SDG 12 is a primary contribution goal.

3. Non-Print Campus & Paper/Plastic Reduction — Quantified Performance

Gulf University's paper and plastic reduction programme has shown sustained, multi-year progress:

Parameter	2023–24	2024–25	2025–26	Overall Change
Total paper & plastic produced	16.5 tons	12.35 tons	11.6 tons	–29.7%
Per capita generation	10.0 kg/person	7.5 kg/person	6.9 kg/person	–31%
Digital exam coverage	85% of courses	100% of courses	100% of courses	+15pp, now at ceiling
Shared printing devices	45 units	30 units	27 units	–40%
Recycled cups/paper usage	60% coverage	95% coverage	97% coverage	+37pp

This is underpinned by fully institutionalized digital exam delivery (100% course coverage, eliminating printed materials for over 1,600 students annually), a ‘Think Before You Print’ awareness campaign, recycled paper cups and certified recyclable A4 paper, RFID-tagged smart waste monitoring, and a partnership with Nidukki Waste Treatment Plant for paper/plastic recycling. SDM-C's Operational Plan separately tracks the Non-Print Campus project at 80% completion against its own implementation



milestones — a project-management metric distinct from, but consistent with, the consumption-reduction trend above.

4. Waste Management Performance

Gulf University's waste management programmes — spanning organic, inorganic, and toxic waste — achieved the following in AY 2025–2026:

Waste Type	Previous Year	2025–26	Change	Treatment Rate
Organic	18.0 tons	16.5 tons	–1.5 tons	78.8%
Inorganic (non-toxic)	27.0 tons	26.5 tons	–0.5 tons	75.5%
Toxic / Hazardous	2.5 tons	2.9 tons	+0.4 tons (expanded lab/electronics activity)	77.6%

Waste management operates via a 3R (Reduce–Reuse–Recycle) strategy, ICT-enabled tracking (ERP waste-tracking module, Power BI dashboards), and a strategic partnership with Nidukki Waste Treatment Plant for inorganic and toxic waste. This programme is explicitly linked to 9 SDGs (3, 4, 6, 9, 11, 12, 13, 15, 17), with SDG 12 specifically credited via ‘3R strategy, paperless systems, and recycling initiatives promoting sustainable consumption patterns.’

5. SDM-C Flagship Initiatives

Initiative	SDG 12 Linkage
Carbon-free Campus Initiative (Ministry of Transportation & Telecommunications)	Responsible transportation choices and resource-efficient lifestyles
Sustainable Family Initiative (GU-SFI)	SDM-C's report references waste reduction and sustainable consumption as household-level themes; a specific “2 of 7 domains, 10%/10% weighting” breakdown could not be verified against the source report and is not restated here as a confirmed figure
GU Sustainability Club (GUSC)	SDG 12 named as a primary contribution goal

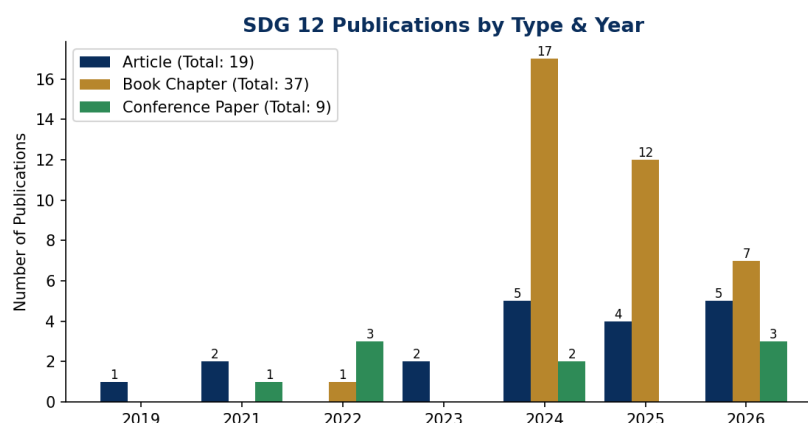
6. DTC — Candidate Digital Contributions

The following project for SDG 12 contributions based on each project's stated scope:

- Project 9 — Project G includes a dedicated ‘Sustainability’ module within the Green Campus Management System.
- Project 5 — Sustainable Family Award Platform digitally supports SDM-C's household sustainable-consumption assessment programme.
- Project 8 — Digital Transformation Restructuring: Document & Workflow Management module (automated approvals, e-signatures, centralised document control) reinforces the Non-Print Campus agenda.



7. GU Research & Publications Related to SDG 12



Publication Type	2019	2021	2022	2023	2024	2025	2026	Total
Article	1	2	0	2	5	4	5	19
Book Chapter	0	0	1	0	17	12	7	37
Conference Paper	0	1	3	0	2	0	3	9

Gulf University's SDG 12-linked research base totals 65 publications (19 articles, 37 book chapters, 9 conference papers), addressing sustainable tourism, CSR/ESG frameworks, circular-economy models, green buildings, renewable energy, waste recycling, and digital transformation — consistent with ICSDI 2025's identification of SDG 12 as a joint-largest conference research theme.

8. Summary of Impact and Key Performance Indicators (KPIs)

KPI	Indicator Description	2025–2026 Result	Status
KPI 1	ICSDI 2025 research papers addressing SDG 12	12.6% of accepted papers — joint-largest research theme	Exceeded
KPI 2	Activities addressing SDG 12 within GUSW2025	6 of 35 activities (17.1%)	Achieved
KPI 3	Paper/plastic consumption reduction	–29.7% over two years (16.5 → 11.6 tons); 100% digital exam coverage	Achieved
KPI 4	Waste treatment rates (organic/inorganic/toxic)	78.8% / 75.5% / 77.6%	Achieved
KPI 5	Non-Print Campus Initiative (SDM-C project-completion tracker)	80% complete	Achieved (near-complete)
KPI 6	DTC contribution to SDG 12	2 candidate projects (Project G Sustainability module; Digital Transformation Restructuring) — inferred, not explicitly tagged by DTC	On Track
KPI 7	SDG 12-linked publications	65 publications (19 articles, 37 book chapters, 9 conference papers)	Achieved

9. Conclusion and Future Directions

SDG 12 shows an unusual but encouraging profile: the University's research output is exceptionally strong (joint-largest ICSDI 2025 theme at 12.6%), and its operational performance is now substantiated with hard



figures — a verified 29.7% reduction in paper/plastic consumption and documented waste-treatment rates in the high-70s percent range — but this sits alongside a complete absence of CECEC activity and an unconfirmed DTC contribution.

Future directions:

- Confirm and formally tag DTC's Project G 'Sustainability' module and Digital Transformation Restructuring as explicit SDG 12 contributions.
- Push waste treatment rates by expanded Nidukki partnership capacity, particularly for the rising toxic-waste volume.
- Launch the planned Zero Single-Use Plastic policy for campus events and track adoption against a clear timeline.
- Introduce a CECEC-side SDG 12 initiative — e.g., a campus clothing/goods swap or waste-reduction awareness event — to close CECEC's current zero-contribution gap.
- Leverage the strong ICSDI 2025 research base (12.6%) by publishing a dedicated SDG 12 research digest or grant stream.
- Verify the GU-SFI "Waste Reduction / Sustainable Consumption domain weighting" claim against the actual assessment rubric before restating specific percentages in future reports.

Compiled from:

Innovation & Entrepreneurship Center (IEC) -Annual Report for the year 2025-26

<https://www.gulfuniversity.edu.bh/images/centers/innovation-entrepreneurship-center/annual-report/IEC-Annual-Report-2025-2026.pdf>

Sustainability Development Makers- Center -Annual Report for the year 2025-26

<https://www.gulfuniversity.edu.bh/images/centers/sustainability-and-development-makers-center/SDM-C-Annual-Report-2025-2026.pdf>

Community Engagement & Continuing Education Center (CECEC) -Annual Report for the year 2025-26

<https://www.gulfuniversity.edu.bh/images/centers/community-engagement-and-continuing-education-center/annual-reports/CECEC-Annual-Report-2025-2026.pdf>

Digital Transformation Center (DTC) -Annual Report for the year 2025-26

<https://www.gulfuniversity.edu.bh/images/centers/digital-transformation-center/annual-report/DTC-Annual-Report-2025-2026.pdf>

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