Jadara University

Irbid, Jordan

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JADARA UNIVERSITY CLIMATE CHANGE ACTION PLAN (2025–2030)

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Vision

To position Jadara University as a national and regional leader in climate action, environmental sustainability, green education, and sustainability research while supporting the United Nations Sustainable Development Goals (SDGs).

1. POLICY BASIS AND REFERENCE DOCUMENTS

This Climate Action Plan is aligned with the following institutional policies and reports:

a. **Sustainability Policy (Revision 2, March 2024)**
https://www.jadara.edu.jo/images/gmetric/SDG%20Policy%20-Jadara%20University%202023-2024.pdf

b. **Sustainable Investment Policy (Revision 2)**
https://www.jadara.edu.jo/images/gmetric/Sustainable%20Investment%20Policy%20Rev.2-Jadara.pdf

c. **SDG Report 2025**
https://www.jadara.edu.jo/images/gmetric/SDG%20Report%202024-2025.pdf

d. **Carbon Emission Report 2026**
https://www.jadara.edu.jo/images/gmetric/Jadara%20Carbon%20Emission%20Report%202026.pdf

International Frameworks

- United Nations Sustainable Development Goals (SDGs)
- QS Stars Rating
- QS Sustainability
- Greenhouse Gas Protocol (GHG Protocol)
- Times Higher Education Impact Ranking
- UI GreenMetric World University Ranking
- Cfi.co Awards for Sustainability
- Human Restart-Europen Board for Sustainability in the Middle East

2. BASELINE DATA (2026)

Indicator	Baseline
Total Carbon Footprint	5,887 tCO_2e/year
Scope 1 + Scope 2 Emissions	1,287 tCO_2e/year
Scope 3 Emissions	4,600 tCO_2e/year
Carbon Footprint per Capita	952.1 kg CO_2e/person/year
Annual Electricity Consumption	1,500,000 kWh
Annual Renewable Energy Generation	1,199,880 kWh
Renewable Energy Share	80%
Campus Population	6,183 FTE

3. SDG ALIGNMENT

This Climate Action Plan contributes directly to:

- SDG 1 – No Poverty
- SDG 3 – Good Health and Well-being
- SDG 4 – Quality Education
- SDG 6 – Clean Water and Sanitation
- SDG 7 – Affordable and Clean Energy
- SDG 11 – Sustainable Cities and Communities
- SDG 12 – Responsible Consumption and Production
- SDG 13 – Climate Action
- SDG 17 – Partnerships for the Goals

4. OPERATIONS OBJECTIVES

Objective 1: Reduce Scope 1 and Scope 2 Emissions

Reduce Scope 1 and Scope 2 emissions by 22% from 1,287 tCO_2e to 1,000 tCO_2e by 2030.

Actions

- Annual carbon footprint assessment.
- Expand smart energy monitoring systems.
- Upgrade equipment to Energy Star standards.
- Improve HVAC efficiency.
- Increase LED lighting coverage.

Responsibility

Lead: Sustainability Committee, Office

Supporting:

- Facilities Department
- Quality Assurance Department
- Administrative Affairs

Budget

USD 40,000 annually

Objective 2: Reduce Scope 3 Emissions

Reduce Scope 3 emissions from 4,600 tCO_2e to 4,000 tCO_2e by 2030.

Actions

- Expand carpooling programs.
- Promote virtual meetings.
- Increase use of university transportation.
- Expand EV charging infrastructure.
- Introduce sustainable procurement guidelines.

Responsibility

Lead: Administrative Affairs, Sustainability Office

Budget

USD 20,000 annually

Objective 3: Increase Renewable Energy Utilization

Increase renewable energy contribution from 80% to 90% by 2030.

Actions

- Expand solar installations.
- Upgrade solar monitoring systems.
- Evaluate battery-storage opportunities.

Responsibility

Lead: Facilities Department, Sustainability Office

Budget

USD 100,000 capital investment

Objective 4: Water, Waste and Green Campus Management

By 2030:

- Reduce potable water consumption by 20%.
- Reuse 100% of treated wastewater.
- Divert 60% of waste from landfill.
- Increase drought-resistant tree coverage by 20%.

Actions

- Rainwater harvesting.
- Waste segregation and recycling.
- Wastewater reuses expansion.
- Annual tree-planting campaigns.

Responsibility

Lead: Facilities Department, Sustainability Office Budget

USD 25,000 annually

5. EDUCATION OBJECTIVES

Objective 5: Integrate Sustainability across Academic Programs

Integrate sustainability learning outcomes into at least 70% of academic programs by 2028.

Actions

- Curriculum reviews.
- Sustainability modules.
- Faculty training.
- SDG learning outcomes mapping.

Responsibility

Vice President for Academic Affairs, Sustainability Office

Budget

USD 10,000 annually

Objective 6: Community Climate Education and Outreach

Conduct at least 12 climate-action and sustainability outreach activities annually.

Actions

- Environmental awareness campaigns.
- School outreach activities.
- Public lectures.
- SDG awareness events.

Responsibility

Student Affairs Deanship, Sustainability Office

Budget

USD 8,000 annually

6. RESEARCH OBJECTIVES

Objective 7: Sustainability Research and Funding

By 2030:

- Increase sustainability-related publications by 50%.
- Secure at least 5 environmental research projects.
- Obtain USD 250,000 in external funding.

Actions

- Sustainability research grants.
- Interdisciplinary research teams.
- International collaboration.
- Faculty publication incentives.

Responsibility

Deanship of Scientific Research, Sustainability Office

Budget

USD 40,000 annually

7. SDG-SPECIFIC OBJECTIVES

Objective 8 (SDG 1): Green Skills and Employment

Train at least 500 students and community beneficiaries in green skills by 2030.

Responsibility

Career Guidance Office, Sustainability Office

Budget

USD 12,000 annually

Objective 9 (SDG 3): Healthy and Climate-Resilient Campus

Implement four health and climate awareness campaigns annually.

Responsibility

University Medical Center, Sustainability Office

Budget

USD 10,000 annually

Objective 10 (SDG 4): Climate Literacy for All Graduates

Ensure 100% of graduates are exposed to sustainability and climate literacy content by 2030.

Responsibility

Academic Affairs, Sustainability Office

Budget

USD 15,000 annually

8. SUSTAINABLE INVESTMENT OBJECTIVE

Objective 11: Sustainable Climate Investment

Allocate a minimum of 20% of sustainability-related infrastructure spending to environmentally sustainable projects annually.

Actions

- Renewable energy investment.
- Water conservation technologies.
- Green campus projects.
- Sustainable transportation infrastructure.
- Climate research infrastructure.

Responsibility

Lead: Finance Department

Supporting: Investment Committee, Sustainability Committee, Sustainability Office

KPI

- Percentage of annual green investment.
- Value of sustainability projects funded.

9. GOVERNANCE STRUCTURE

Function	Responsible Unit
Strategic Oversight	University Council
Plan Approval	University President
Coordination	Sustainability Committee
Carbon Accounting	Sustainability Committee
Investment Oversight	Finance Department & Investment Committee
Monitoring & Reporting	Quality Assurance Department
Curriculum Monitoring	Academic Affairs
Research Monitoring	Scientific Research Deanship

10. RESPONSIBILITY AND BUDGET MATRIX

Objective	Lead Unit	Annual Budget (USD)
Emission Reduction (Scope 1 & 2)	Sustainability Committee	40,000
Scope 3 Reduction	Administrative Affairs	20,000
Renewable Energy Expansion	Facilities Department	100,000
Water & Waste Management	Facilities Department	25,000
Curriculum Integration	Academic Affairs	10,000
Outreach & Awareness	Student Affairs	8,000
Sustainability Research	Scientific Research Deanship	40,000
Green Skills Training	Career Guidance Office	12,000
Health & Climate Programs	Medical Center	10,000
Climate Literacy	Academic Affairs	15,000

Estimated Annual Budget

- Operations: USD 185,000
- Education & Community: USD 45,000
- Research: USD 40,000

Total Annual Climate Action Budget

USD 270,000

11. SDG KPI FRAMEWORK (2026–2030)

SDG 1 – No Poverty

- 500 trainees in green skills.
- 25 sustainability internships annually.
- 10 green entrepreneurship projects.

SDG 3 – Good Health and Well-being

- 4 climate-health campaigns annually.
- 1,000 participants annually.
- 20% increase in campus green spaces.
- Increase EV charging stations from 24 to 40.

SDG 4 – Quality Education

- 70% of programs with sustainability learning outcomes.
- 100% graduate climate literacy coverage.
- 12 sustainability workshops annually.
- 50% increase in student sustainability participation.

SDG 6 – Clean Water and Sanitation

- 20% reduction in potable water consumption.
- 100% treated wastewater reuse.
- 25% increase in rainwater harvesting.
- Full smart-water monitoring coverage.

SDG 13 – Climate Action

- Total carbon footprint reduced by 15%.
- Scope 1+2 emissions reduced to 1,000 tCO_2e.
- Scope 3 emissions reduced to 4,000 tCO_2e.
- Renewable energy increased from 80% to 90%.
- Per-capita emissions reduced below 800 kg CO_2e/person/year.

SDG 17 – Partnerships

- 20 active sustainability partnerships.
- 10 joint sustainability projects.
- USD 250,000 external sustainability funding.

12. MONITORING, REVIEW AND REPORTING

Progress against targets and KPIs shall be reviewed annually by the Sustainability Committee and reported through:

- Annual Sustainability Report.
- SDG Report.
- Carbon Emission Report.
- University Council Annual Review.

Mid-term review: 2028

Final review: 2030

Annual KPI performance shall be publicly disclosed through the University's sustainability reporting framework.

Expected Outcomes by 2030

a. 22% reduction in Scope 1 and Scope 2 emissions.
b. 13% reduction in Scope 3 emissions.
c. 90% renewable energy contribution.
d. 20% reduction in potable water consumption.
e. 60% waste diversion rate.
f. 70% of academic programs integrating sustainability outcomes.
g. 100% graduate climate literacy.
h. 50% increase in sustainability research output.
i. USD 250,000 external environmental research funding.
j. Sustainable investment integrated into institutional planning and budgeting.

13. ENVIRONMENTAL IMPACT ALIGNMENT AND EVIDENCE REGISTER

This register maps the Climate Action Plan to the Environmental Impact areas of Operations, Education and Research. The register is an implementation and evidence checklist. The University should retain dated, verifiable evidence for each item for assessment.

Critereion	Plan commitment / action	Evidence to retain	Responsible unit(s)	Timing
Operations: climate action plan	This plan covers operations, education and research and contains time-bound targets.	Approved plan; approval minutes; annual progress reports.	University President; Sustainability Committee	Approve/confirm annually; review 2028 and 2030
Operations: sustainable investment	Existing Sustainable Investment Policy and Objective 11; allocate at least 20% of sustainability-related infrastructure spending to eligible green projects annually.	Current policy; annual capital-spending ledger; project eligibility rationale.	Finance Department; Investment Committee	Annual
Operations: sustainable procurement	Develop and approve Sustainable Procurement Policy/guidelines and apply environmental criteria to relevant tenders and purchasing.	Approved policy; procurement templates; sample tender/evaluation records.	Administrative Affairs; Procurement; Sustainability Office	Policy by 2027; implementation and annual audit thereafter
Operations: donations/funding policy	Review whether a public sustainability policy for donations and funding is required; develop and publish one if not already in place.	Published policy or documented policy-gap review and approval record.	Finance Department; University Council	Gap review by 2027; annual review
Operations: dedicated sustainability capacity	Designate a named sustainability/climate lead and document FTE allocation and responsibilities; do not report a full-time role unless formally assigned.	Appointment/role description; workload or FTE record; annual work plan.	University President; Sustainability Committee	Designation by 2027; annual confirmation

Critereion	Plan commitment / action	Evidence to retain	Responsible unit(s)	Timing
Operations: energy and carbon	Track renewable energy share, total footprint, Scope 1+2, Scope 3 and per-capita emissions against the 2026 baseline and 2030 targets.	Carbon Emission Report; utility bills; renewable generation data; calculation method.	Sustainability Committee; Facilities Department; Quality Assurance	Annual
Education: curriculum	Integrate sustainability learning outcomes into at least 70% of academic programs by 2028; achieve climate-literacy exposure for 100% of graduates by 2030.	Curriculum maps; approved course outlines; graduate coverage records.	Academic Affairs; Sustainability Office	Annual; milestones 2028 and 2030
Education: public outreach	Deliver at least 12 climate/sustainability outreach activities annually and retain participant counts and activity evidence.	Event calendar; agendas; attendance lists; photos/reports; participant totals.	Student Affairs Deanship; Sustainability Office	At least 12 activities each year
Education: student engagement and networks	Document student sustainability participation, any dedicated student sustainability organisation, and membership in relevant national/international sustainability networks. Establish or strengthen gaps where needed.	Club charter/registration; membership confirmations; event and participation logs.	Student Affairs; Sustainability Office; International Relations	Baseline by 2027; annual update
Research: environmental research output	Increase sustainability-related publications by 50% from a verified 2026 baseline by 2030; pursue at least five	Publication database/search strategy; project award letters; grant agreements and	Deanship of Scientific Research; Sustainability Office	Baseline in 2026; annual tracking; target 2030

Critereion	Plan commitment / action	Evidence to retain	Responsible unit(s)	Timing
	environmental research projects and USD 250,000 external funding.	receipts.		
Research: research centre/capacity	Assess whether a dedicated environmental sustainability research centre or equivalent formal unit exists; establish or formally designate one if feasible and approved.	Council decision; terms of reference; staff/project list; annual outputs.	Deanship of Scientific Research; University Council	Feasibility review by 2027; annual reporting
Governance and evidence	Maintain an evidence owner, data definition, reporting frequency and document repository for each KPI; publish annual results and record corrective actions.	KPI register; source files; annual report; meeting minutes; action log.	Quality Assurance Department; Sustainability Committee	Annual; mid-term review 2028; final review 2030

14. SMART OBJECTIVES AND ANNUAL KPI TRACKING MATRIX

The targets below consolidate the plan's stated commitments into a single tracking matrix. The responsible unit should establish and document it before reporting progress.

Objective	Baseline	SMART target	Deadline	Accountable unit(s)	Means of verification
1. Scope 1+2 emissions	1,287 tCO_2e/year (2026)	Reduce to ≤1,000 tCO_2e/year (about 22%)	2030	Sustainability Committee; Facilities; Quality Assurance	Annual Carbon Emission Report; GHG calculation files
2. Scope 3 emissions	4,600 tCO_2e/year (2026)	Reduce to ≤4,000 tCO_2e/year (about 13%)	2030	Administrative Affairs; Sustainability Office	Annual Scope 3 inventory and transport/procurement data
3. Renewable energy share	80% (2026)	Increase renewable energy contribution to ≥90%	2030	Facilities Department; Sustainability Office	Utility and solar-generation records; calculation sheet
4. Water, waste and green campus	Water/waste/trees baseline to be documented in 2026	Reduce potable water use 20%; reuse 100% treated wastewater; divert 60% waste from landfill; increase drought-resistant tree coverage 20%	2030	Facilities Department; Sustainability Office	Water meters; wastewater records; waste weights/manifests; tree inventory
5. Curriculum integration	Program-level baseline to be verified in 2025	At least 70% of academic programs have mapped sustainability learning outcomes	2028	Vice President for Academic Affairs; Sustainability Office	Approved curriculum maps and program review records
6. Outreach activities	Activity count to be recorded annually	Deliver at least 12 climate/sustainability outreach activities each year	Annually, 2025–2030	Student Affairs Deanship; Sustainability Office	Annual activity register and attendance evidence
7. Sustainability research and funding	Publication baseline to be established in 2025	Increase publications by 50%; secure ≥5 environmental research projects; obtain USD 250,000	2030	Deanship of Scientific Research; Sustainability Office	Publication search log; award letters; funding agreements

Objective	Baseline	SMART target	Deadline	Accountable unit(s)	Means of verification
		external funding			
8. Green skills	Cumulative trainees to be tracked from 2026	Train at least 500 students/community beneficiaries in green skills	2030	Career Guidance Office; Sustainability Office	Training registers, attendance and completion records
9. Climate-health campaigns	Annual campaign and participant baseline	Conduct 4 campaigns and reach 1,000 participants annually	Annually, 2025–2030	University Medical Center; Sustainability Office	Campaign reports and attendance counts
10. Graduate climate literacy	Graduate coverage baseline to be verified in 2026	Ensure 100% of graduates are exposed to sustainability/climate literacy content	2030	Academic Affairs; Sustainability Office	Curriculum mapping and graduate coverage records
11. Sustainable investment	Annual sustainability-related infrastructure spend to be classified	Allocate at least 20% of sustainability-related infrastructure spending to environmentally sustainable projects	Annually, 2025–2030	Finance Department; Investment Committee	Approved budgets, spending ledger and project classification

Annual review cycle and corrective action

- Each responsible unit submits KPI evidence to the Sustainability Committee and Quality Assurance Department by the end of each reporting year.
- The Sustainability Committee validates calculations, compares actual results with annual milestones, and records explanations for missed targets.
- For any KPI off track, the responsible unit records a corrective action, named owner, resources required and completion date.
- The University publishes a consolidated annual progress summary through the Sustainability Report, SDG Report and Carbon Emission Report; conduct the mid-term review in 2028 and final review in 2030.