

13



SDG 13: CLIMATE ACTION

Khalifa University of Science and Technology advances SDG 13: Climate Action by integrating climate mitigation, adaptation, and resilience across research, campus operations, governance, and community engagement. In 2025, climate action was strengthened through data-driven decision-making, institutional accountability, and long-term strategic planning aligned with the UAE's climate ambitions.

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13



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Climate Action Research

In 2025, Khalifa University advanced its contribution to SDG 13: Climate Action through a robust portfolio of research projects addressing both climate mitigation and adaptation.

These projects integrate environmental and planetary sciences with low-carbon energy technologies and climate risk and impact analysis, supporting evidence-based climate solutions relevant to the UAE and the wider region.

88

Active Awarded Research
Projects in 2025

45 M

Projects' Research Budget
(AED) in 2025

Main research themes:

Climate Resilience

Emissions Reduction
Strategies

Informed Policy and
Infrastructure
Planning

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SDG 13 Research Publications in 2025

Climate Action Research Publications Summary

Within SDG 13: Climate Action, Khalifa University produced 552 publications over the 2022–2025 period, according to Elsevier SciVal SDG 2025 mapping (Scopus data as of 16 January 2026).

Between 2022 and 2025, SDG 13 publication output grew at an average annual rate of approximately 17%, reflecting sustained expansion of KU's climate-focused research portfolio.

Across the 2022–2025 period, SDG 13 publications achieved a Field-Weighted Citation Impact (FWCI) of 2.21, supported by 11,956 citations and 27,332 views, demonstrating strong scholarly impact and visibility.

International collaboration remains a key strength, with 415 publications (approximately 75.2%) involving international co-authors.

13



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Climate & Decarbonisation Research

- **FloodEye - Flood Prediction for Arid Regions:**
Uses remote sensing to forecast floods in dry regions and protect vulnerable communities
- **Climate Risk Assessment for Dubai Airports:**
Evaluates climate-change impacts on a major transport hub to guide resilience planning
- **CO₂ Sequestration in Abu Dhabi Carbonate Aquifers:**
Optimises permanent underground storage of CO₂ in regional geological formations
- **Advanced MOFs and Zeolites for CO₂ Capture:**
Designs next-generation materials to adsorb CO₂ more efficiently from gas streams
- **B-RISE – Rising Seawater Temperatures at Barakah NPP:**
Assesses how warmer seas affect nuclear plant cooling and develops adaptation strategies

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