# SDG 9

# INDUSTRY, INNOVATION AND INFRASTRUCTURE

Institutional Impact Report 2026

## Al-Iraqia University

**Innovation • Smart Infrastructure • Research • Digital Transformation • Technology Transfer**

Al-Iraqia University contributes to SDG 9 through smart-campus infrastructure, renewable-energy technologies, research capacity, digital transformation and institutional mechanisms that support innovation and entrepreneurship.

**Reporting: year 2025–2026**



# 1. Executive Summary

Al-Iraqia University contributes to SDG 9 through smart-campus infrastructure, renewable-energy technologies, research capacity, digital transformation and institutional mechanisms that support innovation and entrepreneurship. The report follows the evidence-led structure used in the university's SDG 1 model report and relies on uploaded institutional documentation. Claims are limited to what the supplied evidence supports.

## Institutional Capacity & Impact at a Glance

| 2,493 | 280 | $1.685M | 383.8 kW |
|---|---|---|---|
| lecturers and researchers | sustainability publications in 2025 | average annual research fund, 2023–2025 | solar PV infrastructure |

## Institutional contribution at a glance

- **Smart and Sustainable Infrastructure:** Smart-building solutions include LED lighting controls, automated lighting, centralized monitoring, daylighting, natural ventilation and energy-efficient architectural design.
- **Research and Innovation Capacity:** The university reports 2,493 lecturers and researchers for 2025–2026 and 280 sustainability-related scholarly publications in 2025.
- **Technology Incubation and Entrepreneurial Ecosystem:** The Technology Incubators and Ecosystem Division supports innovative ideas through incubation services, infrastructure support, intellectual-property awareness, initial funding support, investor linkage and project follow-up.
- **Digital Transformation and Data-Driven Services:** Governance evidence documents electronic services, HEPIQ-related systems, paperless workflows, online forms, sustainability reporting portals and ICT-enabled monitoring.

## Solar-Powered Electric Vehicle Charging Infrastructure at the College of Engineering

The College of Engineering at Al-Iraqia University has implemented a green infrastructure project integrating solar photovoltaic (PV) power generation with electric vehicle (EV) charging facilities. The project was carried out under the direct supervision of the Dean of the College of Engineering, Prof. Dr. Malik Abdul Razzaq Jabbar, with the follow-up and technical participation of Dr. Hussein Jumaa Jaber, Head of Laboratories, and students from the Department of Electrical Engineering.

As part of the project, the College constructed a covered parking facility equipped with solar photovoltaic panels and electric vehicle charging stations. The solar-powered parking facility is connected to the College building's electrical system, enabling the generated renewable electricity to support both the charging infrastructure and the building's electricity requirements.

The system provides approximately 80 kW (320 A) of electrical power during daytime working hours, contributing to the College's operational energy supply while providing EV charging services for faculty and staff. By combining renewable electricity generation, sustainable transportation infrastructure, and practical engineering applications within a single project, the initiative demonstrates an integrated approach to campus infrastructure development.

The project also provides an applied educational dimension through the participation of Electrical Engineering students, strengthening their practical exposure to solar photovoltaic systems, electrical integration, and electric vehicle charging technologies.

Activity Objective:

To develop sustainable campus infrastructure by integrating solar photovoltaic electricity generation with electric vehicle charging facilities, reduce dependence on conventional electricity sources, support cleaner transportation technologies, and provide students with practical experience in renewable energy and advanced electrical engineering applications.

Link: https://www.facebook.com/100057399282133/posts/1006220474634586/?mibextid=wwXIfr&rdid=1TpmNT980CYvkY4B#



***Figure: Solar-Powered EV Charging Infrastructure at the College of Engineering***

## 2. Smart and Sustainable Infrastructure

Smart-building solutions include LED lighting controls, automated lighting, centralized monitoring, daylighting, natural ventilation and energy-efficient architectural design. Renewable-energy infrastructure and solar-powered EV charging further demonstrate applied sustainable infrastructure on campus.

## 3. Research and Innovation Capacity

The University reports 2,493 lecturers and researchers for the 2025–2026 academic year and 280 sustainability-related scholarly publications in 2025. These indicators demonstrate a substantial institutional capacity for research, knowledge production, and innovation, providing a strong foundation for applied research, interdisciplinary collaboration, and the development of sustainable technological and infrastructure solutions.

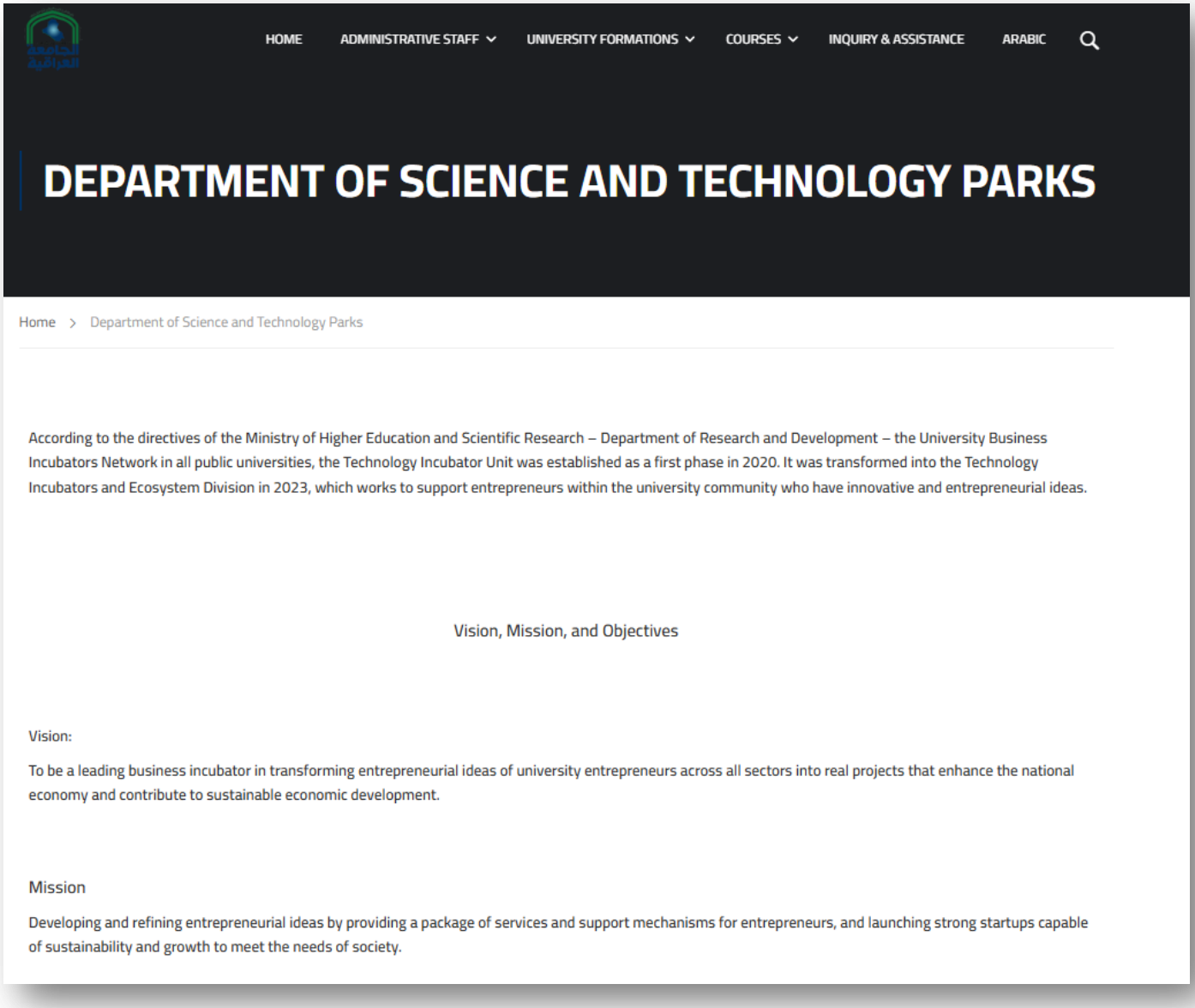
In September 2026, researchers from Al-Iraqia University, in collaboration with researchers from other Iraqi universities, were granted a patent for the design and fabrication of an innovative microbial desalination cell. The technology integrates biological systems with enhanced ion-transfer mechanisms to improve sustainable water desalination and support energy-related applications. This achievement demonstrates the University's capacity to translate academic research into innovative technological solutions addressing water and energy challenges.

Link: https://aliraqia.edu.iq/en/987531721/

## 4. Technology Incubation and Entrepreneurial Ecosystem

The Technology Incubators and Ecosystem Division supports innovative ideas through incubation services, infrastructure support, intellectual-property awareness, initial funding support, investor linkage and project follow-up. This provides an institutional pathway for translating ideas into projects and startups.

Link: https://aliraqia.edu.iq/en/stp-dep



## 5. Digital Transformation and Data-Driven Services

Governance evidence documents electronic services, HEPIQ-related systems, paperless workflows, online forms, sustainability reporting portals and ICT-enabled monitoring. These systems strengthen administrative infrastructure, service delivery and evidence-based institutional management.

Link: https://aliraqia.edu.iq/en/hepiq

