Dokuz Eylül University · SDG Progress Report Series 2025

SDG 13: Climate Action — Progress Report 2025

Institutional Evidence, Low-Carbon Energy Tracking & Use, Shared Climate Action Plan, Co-operative Disaster & Early-Warning Governance, NGO Adaptation Partnerships, and 2049 Carbon-Neutral Commitment for THE Impact Rankings 2027

Field	Institutional Specification & Verified 2025 Baseline
Institution	Dokuz Eylül University (DEÜ) — İzmir, Türkiye (719,993 m² Academic/Research/Admin Floor Space; 821,049 m² Gross incl. 101,056 m² Hospital)
Reporting Cycle	2025 Activity & Performance Cycle (THE Impact Rankings 2027 Submission — Calendar Year 2025 & 2025–2026 Audit)
Lead Governance Units	DEÜ Sustainability Office, Dept. of Construction & Technical Works, Zero Waste & Environmental Management Office, Social Contribution Coordination Office, DBTE, ÇEVMER, DAUM, SUMER & İZİSYÖM
Core Policy & Plan Framework	DEÜ Climate Action Plan (İklim-DE, Integrated via 14 Mar 2019 Decision & Nov 2021 Rectorate Letter), Sustainability and Climate Action Policy (Apr 2024), Social Contribution and Sustainability Policy (Senate Decision No. 721/11, 30 Dec 2025) & Energy Efficiency Law No. 5627
Low-Carbon Energy (13.2.1–13.2.2)	131,337 GJ (36,482,512 kWh) Total Energy Used (Excl. Hospital) | 92,830 GJ (25,786,033 kWh) Low-Carbon Energy Used (87,189 GJ Solar PV + 5,638 GJ Geothermal + 3.3 GJ Wind) | 70.7% Low-Carbon Share (CY 2025)
Climate Education & Shared Plan (13.3.1–13.3.2)	294 Social Responsibility Projects in 2025 (4th in Türkiye per YÖK; up from 164) | 224 SDG 13 AVESİS Records (13 Organised Events) | 9 Flagship Local Climate Education Campaigns (~30,000 at Twin Transition Festival) | Plan Shared with 28 Institutions (11 Dec 2025)
Disaster, Early Warning & NGOs (13.3.3–13.3.5)	AFAD EcoDRR, İZKA–İZSU İzmir Bay GIS Platform, İzmir Disaster Master Plan Protocol (29 Dec 2025; 341-Neighborhood Study), Inner Bay Algal Bloom Detection (TRY 720,000), 'A Breath for İzmir' (TRY 2,520,000), EUPOLY-MIG, TEMA, Kızılay & TÜBİTAK 3005 Climate Litigation
Carbon Neutrality (13.4.1–13.4.2)	2049 Target Date for Scope 1 + Scope 2 Carbon Neutrality (25–30%/yr Reduction Target) | CY 2025 EPA/GHG Protocol Inventory: 16,395 t CO2e Scope 1+2 (3,894 t Scope 1 + 12,501 t Scope 2) + 29 t Scope 3 Waste | Zero Carbon Credits Applied | ~3.1 Million m² Protected Forest

Executive Summary — SDG 13 Climate Action Performance Highlights (2025): Dokuz Eylül University (DEÜ) executes an institution-wide climate mitigation, adaptation, and disaster-resilience framework anchored in its **Climate Action Plan (İklim-DE)** (integrated into the University Strategic Plan following the 14 March 2019 commission decision and November 2021 Rectorate Information Letter), the **Sustainability and Climate Action Policy (April 2024)**, and the **Social Contribution and Sustainability Policy (University Senate Decision No. 721/11, 30 December 2025)**. Across its **719,993 m²** of educational, research, and administrative indoor floor area (excluding the **101,056 m²** regional tertiary hospital), DEÜ consumed **131,337 GJ (36,482,512 kWh)** of total energy in Calendar Year 2025 while generating and utilizing **92,830 GJ (25,786,033 kWh) of low-carbon energy**—comprising **87,189 GJ (24,219,130 kWh)** of solar PV electricity across **15.2 MWe** installed capacity credited via statutory grid-based offsetting (mahsuplaşma), **5,638 GJ (1,565,990 kWh)** of direct geothermal heat at the 15 Temmuz Health and Arts Campus, and **3.3 GJ (913 kWh)** of rooftop wind electricity at TEAM—achieving a **70.7% low-carbon energy ratio** (**56.2%** in Sep 2024–Aug 2025; **51.0%** in the May 2025–Apr 2026 UI GreenMetric period).

In 2025, DEÜ expanded its community social responsibility portfolio to **294 projects (up from 164 in 2024, ranking 4th among Turkish universities according to YÖK)**, recorded **224 SDG 13-tagged academic outputs and 13 organised events in AVESİS**, and delivered **9 flagship local climate education campaigns** led by the **'Tracing the Twin Transition' Technology and Science Festival (~30,000 participants across 87 stands, 25–27 September 2025)**. DEÜ's Climate Action Plan and 2025 emission results were formally shared with local government and civil society at the **11 December 2025 External Stakeholder Advisory Board Meeting (45 senior representatives from 28 institutions)**, the **18 September 2025 İZSU–İZKA–DEÜ İzmir Bay Workshop**, and the **21 November 2025 İzmir City Council 'One Health in Disasters' Symposium (~300 participants)**.

DEÜ co-operatively plans for climate disasters and informs government early-warning systems through the **İzmir Disaster Master Plan Protocol (signed 29 December 2025 with İzmir Metropolitan Municipality and İYTE)**, the **İZKA–İZSU İzmir Bay Ecosystem-Based Management Spatial Information Platform (June 2025–January 2026)**, the **İzmir Inner Bay Algal Bloom Detection Project (TRY 720,000)**, the **'A Breath for İzmir' (İzmir İçin Nefes) Bay Ecosystem Project (TRY 2,520,000)**, internal and cross-border displacement research (**341-neighborhood vulnerability mapping, ADEP Grant SBA-2024-3383, and EU Jean Monnet Module EUPOLY-MIG**), and NGO climate adaptation partnerships with the **TEMA Foundation, Turkish Red Crescent (Kızılay), SAR Association, and environmental NGOs (TÜBİTAK 3005 climate litigation project)**. Committed to **Scope 1 and Scope 2 carbon neutrality by 2049** with **zero carbon offsets**, DEÜ reported **16,395 t CO2e in combined Scope 1 (3,894 t) and Scope 2 (12,501 t) emissions** in its 2025 GHG Protocol inventory (plus **29 t CO2e** partial Scope 3 waste) while protecting **~3.1 million m² of university forest** and securing **YÖK acceptance for 83 out of 94 submitted COP31 projects**.

1. Institutional Climate Governance, Policy Framework & Research Impact (THE 13.1 & Governance)

Dokuz Eylül University (DEÜ) governs climate change mitigation, adaptation, disaster risk reduction, and environmental education through an integrated institutional structure uniting the **Sustainability Office (Sürdürülebilirlik Ofisi)**, the **Zero Waste and Environmental Management Coordination Office**, the **Department of Construction and Technical Works (Energy Management Unit)**, and the **Social Contribution**

Coordination Office (Toplumsal Katkı Koordinatörlüğü). Workflow processes across all academic and administrative units follow the Plan–Do–Check–Act (PDCA) cycle inside **KALBİS (DEÜ Quality Information System)**, following the revision of the Social Contribution Coordination Office Directive on **16 January 2025** (https://toplumsalkatki.deu.edu.tr/wp-content/uploads/2025/05/TKK_REVIZE_16Ocak_22012025.pdf).

DEÜ's binding climate mandate rests on four foundational instruments: (1) the **DEÜ Climate Action Plan (İklim Eylem Planı)**, originally developed between 2017 and 2020 under the EU IPA-funded **İklim-DE Project** across 12 workshops with 305 participants and elevated to permanent institutional status by the **14 March 2019 Commission Decision and November 2021 Rectorate Information Letter** (https://greencampus.deu.edu.tr/wp-content/uploads/2021/11/Dokuz-Eylul-iklim-eylem-plani-bilgi-yazisi.pdf); (2) the **Sustainability and Climate Action Policy (published April 2024)** (https://greencampus.deu.edu.tr/wp-content/uploads/2024/04/DEU-Surdurulebilirlik-Politikasi.pdf); (3) the **Social Contribution and Sustainability Policy (adopted by University Senate Decision No. 721/11 on 30 December 2025)** and published in the **DEÜ 2025 Administrative Activity Report**; and (4) the **DEÜ COP31 Coordination Office** (https://cop31.deu.edu.tr), which coordinated the submission of **94 institutional climate activities to the Council of Higher Education (YÖK) in August 2026, with 83 projects officially accepted** for UNFCCC COP31 (Antalya, 9–20 November 2026). In the 2025–2026 academic cycle, DEÜ's research information system **AVESİS records 224 SDG 13-tagged scholarly outputs and projects, including 13 organised climate events**.

Institutional Unit / Research Centre	Mandate & Operational Responsibility under SDG 13	Official Portal
Sustainability Office & Zero Waste Coordination Office	Implementation and monitoring of the DEÜ Climate Action Plan, annual EPA/GHG Protocol inventory (2025-CO2.pdf), UI GreenMetric reporting (2025–2026), and 2049 Zero-Carbon Target.	greencampus.deu.edu.tr
Dept. of Construction & Technical Works (Energy Unit)	Certified Building Energy Managers under Law No. 5627, ENVER portal reporting, 15.2 MWe Solar PV & geothermal metering, 17 smart buildings (236,009 m²), and 8-campus energy audits.	yapiisleri.deu.edu.tr
Social Contribution Coordination Office & DESEM	KALBİS social contribution module tracking (revised directive 16 Jan 2025), 294 social responsibility projects in 2025 (4th in Türkiye per YÖK), and lifelong climate education.	toplumsalkatki.deu.edu.tr
Institute of Marine Sciences & Technology (DBTE / IMST)	R/V Koca Piri Reis oceanographic monitoring, İZKA–İZSU İzmir Bay GIS Platform, Inner Bay Algal Bloom Detection (TRY 720,000), SÇG-2025 workshop, and 2026 Integrated Coastal Zone Planning.	imst.deu.edu.tr

Institutional Unit / Research Centre	Mandate & Operational Responsibility under SDG 13	Official Portal
ÇEVMER, Dept. of Environmental Eng., DAUM, SUMER & İZİSYÖM	'A Breath for İzmir' Bay project (TRY 2,520,000), Central Campus forest air/met station, İzmir Disaster Master Plan Protocol (29 Dec 2025), watershed flood/heat/drought modelling, and urban resilience.	cevmer.deu.edu.tr / daum.deu.edu.tr / izisyom.deu.edu.tr

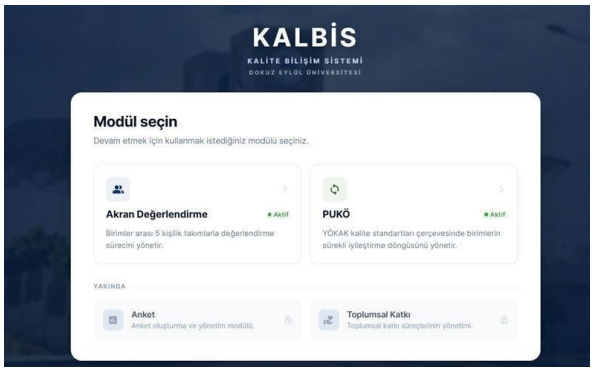

Figure 1a: DEÜ KALBİS Quality Information System portal (kalite.deu.edu.tr), which tracks all SDG 13 social contribution and climate action workflows under the PDCA cycle.

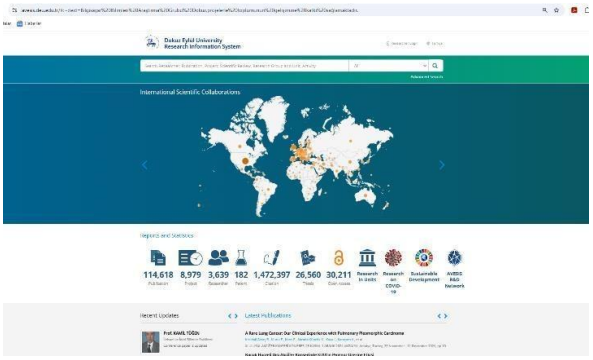

Figure 1b: DEÜ AVESİS Academic Data Management System (avesis.deu.edu.tr), indexing 224 SDG 13-tagged research records and 13 organised climate events in 2025–2026.

2. Low-Carbon Energy Tracking & Utilization Across the University (THE 13.2.1 & 13.2.2)

2.1 Metering Architecture, Building Energy Management & Boundary Definitions (Indicator 13.2.1)

In accordance with **Energy Efficiency Law No. 5627**, DEÜ has appointed certified Building Energy Managers across its campuses who meter and record annual building-by-building electricity and natural gas consumption in **ENVER (the Energy Efficiency Portal of the Ministry of Energy and Natural Resources)**. Automated Building Management Systems (BMS) continuously regulate lighting, heating, cooling, and ventilation across **17 certified Smart Buildings covering 236,009 m² (approx. 236,000 m²)** of floor space. All qualifying university buildings hold **Energy Performance Certificates (BEP-TR)**, indoor temperatures are strictly capped at **21 °C during the heating season and 25 °C during the cooling season**, and comprehensive **Energy Survey Reports prepared by İstanbul Enerji Sanayi ve Ticaret A.Ş. (published November 2024, following earlier SETAŞ audits)** have evaluated HVAC, pumping, lighting, and thermal insulation across eight campuses (https://greencampus.deu.edu.tr/wp-content/uploads/2024/11/EnergyAuditReports.pdf).

Consistent with **Indicators 13.2.1, 13.2.2, 7.3.1, and 7.5.1**, the **DEÜ Research and Application Hospital (101,056 m² floor area; 18,860,704 kWh / 67,899 GJ annual electricity consumption in 2025–2026)** is excluded from the campus energy consumption denominator because it operates as a regional tertiary

healthcare complex with a 24/7 clinical energy profile distinct from core education and research activities. All educational, research, and administrative facilities across DEÜ's campuses (**719,993 m² indoor floor area, including the Faculty of Medicine**) are included. Furthermore, **5,125 kg of waste vegetable oil** collected from university kitchens in May 2025–April 2026 and converted into biodiesel by a licensed recycler is **recorded but excluded from university low-carbon energy use** because the resulting biodiesel is used outside the university, and **forest-derived biomass is not used for energy on any campus**.

Low-Carbon Source / Stream	Campus Location	Installed Capacity / Basis	Measurement & Accounting Method
Solar Photovoltaic (PV) Electricity	Six campuses in 13.2.1 table: Central (Tınaztepe), Dokuzçeşmeler, 15 Temmuz Health, Buca Faculty of Education, Institute of Marine Sciences & Tech (DBTE), Torbalı MYO (7-campus rollout launched Mar 2022)	15.2 MWe Installed Capacity	Generation meters at each plant; monthly generation records & EPDK grid-based offsetting (mahsuplaşma).
Geothermal Thermal Energy	15 Temmuz Health and Arts Campus (İnciraltı)	Geothermal Heat Exchangers	Monthly geothermal flow and thermal energy records (m^3 and kWh) directly utilized on campus.
Wind Turbine Electricity	Science and Technology Research and Application Centre (TEAM, Tınaztepe)	Small Rooftop Turbine (Night Lighting)	Annual generation record (913 kWh / 3.3 GJ directly consumed on campus).
Waste Vegetable Oil Biodiesel & Forest Biomass	University Kitchens (5,125 kg in 2025–2026) / Campus Woodlands	Excluded from DEÜ Low-Carbon Total	Biodiesel is utilized off-campus by licensed recycler; zero forest biomass combustion on any campus.

2.2 Calendar Year 2025 Official THE Submission & Multi-Period Reconciliation (Indicator 13.2.2)

In **Calendar Year 2025 (1 January – 31 December 2025)**, total energy used across DEÜ's **719,993 m²** non-hospital academic, research, and administrative estate amounted to **131,337 GJ (36,482,512 kWh)** (**36,481,599 kWh** stationary utility consumption excluding wind plus **913 kWh** wind electricity). Total low-carbon energy generation and utilization reached **92,830 GJ (25,786,033 kWh)**—comprising **87,189 GJ (24,219,130 kWh)** of solar PV electricity accounted for via Türkiye's statutory **grid-based electricity offsetting (mahsuplaşma)** mechanism under EPDK unlicensed generation regulations, **5,638 GJ (1,565,990 kWh)** of direct geothermal heat utilization, and **3.3 GJ (913 kWh)** of on-campus wind electricity—yielding a **70.7% low-carbon energy share (92,830 GJ ÷ 131,337 GJ)**. Table 3 presents the complete Calendar Year

2025 energy balance alongside the **September 2024 – August 2025 (56.2%)** and **May 2025 – April 2026 UI GreenMetric Sustainability Report (51.0%)** cross-check periods.

Indicator / Energy Stream	Sep 2024 – Aug 2025	May 2025 – Apr 2026 (SR)	CY 2025 (kWh)	CY 2025 (GJ — THE)
Solar PV Electricity Generation (15.2 MWe)	24,658,977 kWh	24,110,405 kWh (86,797 GJ)	24,219,130 kWh	87,189 GJ
Geothermal Heat Utilized (15 Temmuz Campus)	1,907,000 kWh	1,943,670 kWh (6,997 GJ)	1,565,990 kWh	5,638 GJ
Wind Turbine Electricity (TEAM Rooftop)	913 kWh	913 kWh (3.3 GJ)	913 kWh	3.3 GJ
Total Low-Carbon Energy Used (13.2.2 Official)	26,566,890 kWh	26,054,988 kWh (93,798 GJ)	25,786,033 kWh	92,830 GJ
Grid Electricity Consumed (Excl. Hospital)	24,089,827 kWh	27,180,185 kWh (97,849 GJ)	17,468,599 kWh	62,887 GJ
Natural Gas Consumed (Excl. Hospital)	21,265,160 kWh	21,968,037 kWh (79,085 GJ)	17,447,010 kWh	62,809 GJ
Total Stationary Energy (Excl. Wind, 13.2.1 Table)	47,261,987 kWh	51,091,892 kWh (183,931 GJ)	36,481,599 kWh	131,334 GJ
Total Energy Used (Incl. Wind, 13.2.2 Official)	47,262,900 kWh	51,092,805 kWh (183,934 GJ)	36,482,512 kWh	131,337 GJ
Low-Carbon Energy Share (% of Total Energy)	56.2%	51.0%	70.7%	70.7%
Memo: Hospital Electricity (Excluded Above)	18,860,704 kWh*	18,860,704 kWh (67,899 GJ)	Excluded (101,056 m²)	67,899 GJ*



Figure 2: Aerial view of the DEÜ Central Campus Solar Power Plant (GES), part of the 15.2 MWe multi-campus solar photovoltaic infrastructure generating 24,219,130 kWh (87,189 GJ) in Calendar Year 2025.

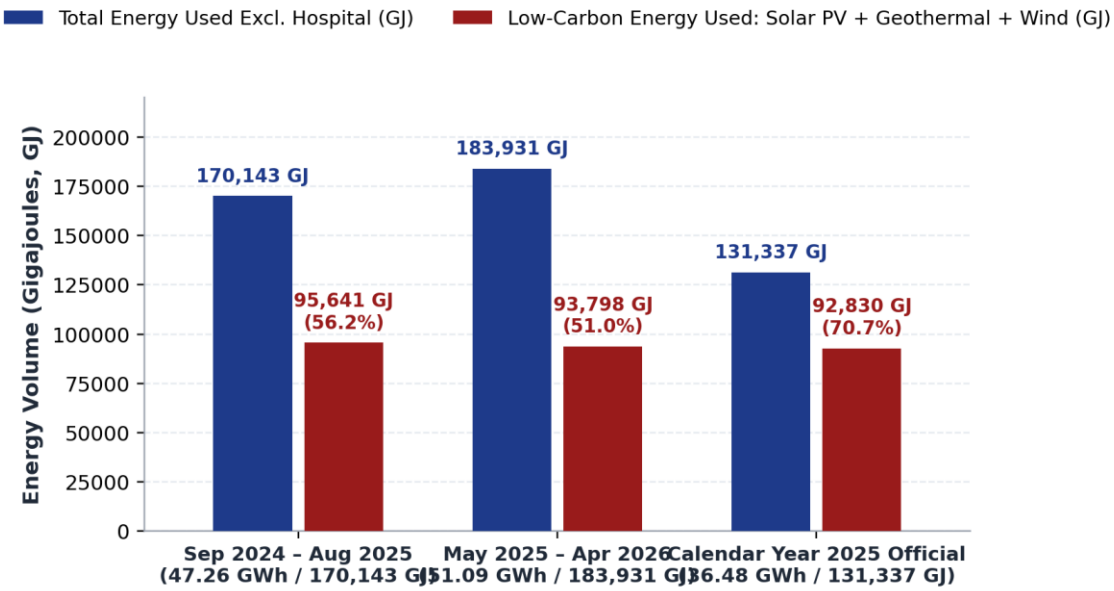

Figure 3: Multi-period comparison of DEÜ non-hospital campus energy consumption and low-carbon energy utilization (GJ and % ratio) across Sep 2024–Aug 2025 (56.2%), May 2025–Apr 2026 (51.0%), and Calendar Year 2025 (92,830 GJ / 131,337 GJ = 70.7%).

3. Local Climate Education Programmes & Shared Climate Action Plan (THE 13.3.1 & 13.3.2)

3.1 Local Education Programmes and Campaigns on Climate Change Risks & Mitigation (Indicator 13.3.1)

Complementing its community climate education campaigns, DEÜ's faculties and technopark showcased clean-energy climate mitigation on the international and regional stage in May–July 2025—hosting the **9th International Hydrogen Technologies Congress (IHTEC-2025, 25–28 May 2025 at DESEM; >400 papers from 25 countries across 40 sessions, co-chaired by Prof. Dr. Azize Ayol and Prof. Dr. Can Özgür Çolpan)** (https://haber.deu.edu.tr/deu-9-uluslararasi-hidrojen-teknolojileri-kongresine-ev-sahipligi-yapacak/ihtec-2025-afis/ ; https://www.linkedin.com/posts/de%C3%BC-m%C3%BChendislik-fak%C3%BCltesi-825028b9_universitemdeu-ihtec2025-ugcPost-7333079682981974016-DnIK/), winning **2nd Place in Efficiency and 3rd Place in Solar Challenge at Albi Eco Race 2025 in France (22–24 May 2025)** through **DEÜ Solar Team Solaris** advised by Assoc. Prof. Dr. Aytaç Gören (https://makina.deu.edu.tr/duyurular/solar-team-solaris-albi-eca-race-2025-basarilari/), and accelerating 36 startups (from 93 applicants, with 10 stage finalists) through the **DEPARK BAMBU Speed Up & BAMBU UP Demo Day** (https://haber.deu.edu.tr/depark-bambu-up-demo-dayde-girisimciler-projelerini-ekosistemle-bulusturdu/). Under the **Social Contribution and Sustainability Policy (Senate Decision No. 721/11, 30 December 2025)**, DEÜ delivers structured local education programmes and public campaigns on climate change risks, impacts, mitigation, adaptation, impact reduction, and early warning for K–12 pupils, teachers, İzmir residents, healthcare workers, industrial employees, and coastal communities. In 2025, DEÜ executed **294 social responsibility projects (up from 164 in 2024), placing DEÜ 4th nationwide among Turkish universities according to YÖK**, while sustainability-themed events tracked under UI GreenMetric (ED.4) rose from **180 in 2024–2025 to 218 in 2025–2026**. Table 4 details the **9 flagship local climate education programmes delivered in Calendar Year 2025** alongside continuity initiatives in 2026 (the **7th Environmental Days Symposium & three-tier DEÜ Green Collars Certification Programme in June 2026**, **83 YÖK-accepted COP31 projects**, the **'Towards COP31' Panel Series in October 2026**, and public **YÖK Science Café talks aboard R/V Koca Piri Reis at Konak Pier on 30 December 2025**).

2025 Climate Education Programme & Date	Organising DEÜ Unit	Target Audience & Reach	THE 13.3.1 Elements Addressed
1. 'Tracing the Twin Transition' Tech & Science Festival (25–27 Sep 2025)	DEÜ Buca Faculty of Education & İzmir Prov. Dir. of National Education (TÜBİTAK 4007)	~30,000 pupils, teachers & İzmir residents across 87 stands	Mitigation (renewable energy demos) & impact reduction
2. Conference: 'Climate Change and Urban Resilience in Coastal Cities of Türkiye' (23 Dec 2025)	İZİSYÖM (Dr. Aytaç Duran; Official Gazette No. 25859)	85+ public administrators, municipal planners & citizens	Coastal risks, sea-level rise, storm surge, heat island & adaptation

2025 Climate Education Programme & Date	Organising DEÜ Unit	Target Audience & Reach	THE 13.3.1 Elements Addressed
3. Corporate Seminar: 'Following the Climate: Global Change from Past to Future' (20 Jun 2025)	ÇEVMER (Prof. Dr. Tolga Elbir) for Eti Bakır A.Ş.	60+ industrial engineers, environmental specialists & staff	Palaeoclimate, GHG forcing, RCP 8.5 basin risks & mitigation
4. Carbon Emission Symposium Webinar (24 Mar 2025)	DEKAT Student Society, Faculty of Law & EBAMER	Open online public, legal & maritime audience	Mitigation, international climate law & emission trading
5. 3rd Baby-Friendly Health Worker Symposium: 'Sustainable & Liveable Climate' (7 Aug 2025)	DEÜ Research and Application Hospital	Physicians, nurses & health professionals in İzmir	Impacts & impact reduction (low-carbon infant feeding resilience)
6. 'Marine Storage Areas & Climate Change' (11 Sep) & 10th SÇG-2025 Workshop (11–14 Sep 2025)	Institute of Marine Sciences and Technology (DBTE)	Researchers, students, companies & public agencies	Marine/coastal climate impacts, risks & sediment adaptation
7. Urla Sustainable Coastal Design 1st Summer School (Jul 2025)	Faculty of Architecture (Assoc. Prof. D. Güner & Prof. Ş. Çıkış)	20 architecture & urban design participants in Urla	Coastal climate adaptation & resilient spatial design
8. Seminar: 'Climate Change Tolerance & Heavy Metal Uptake of Edible Wild Plants' (16 May 2025)	FAMER (Prof. Dr. Görkem Akıncı, Head of Zero Waste Office)	Researchers, students & agricultural/food stakeholders	Drought/thermal stress impacts & food-system adaptation
9. Presentation: 'Global Climate Change' (21 May 2025)	DEÜ Faculty of Medicine (15 Temmuz Health Campus)	Physicians, medical residents, nursing staff & students	Health risks, heatwave morbidity & clinical preparedness



Figure 4a: Buca Faculty of Education Campus, host of the TÜBİTAK 4007 'Tracing the Twin Transition' Technology and Science Festival (~30,000 participants, 25–27 September 2025).



Figure 4b: School pupils participating in hands-on renewable energy and climate-mitigation workshops across the 87 festival stands.

3.2 University Climate Action Plan Shared with Local Government & Community Groups (Indicator 13.3.2)

DEÜ's **Climate Action Plan**—drafted under the EU-funded **İklim-DE Project (2017–2020)** and integrated into the University Strategic Plan with permanent institutional status under the **Sustainability Office**—establishes six operational pillars: (1) annual GHG Protocol inventory measurement (**16,395 t CO2e Scope 1+2 in CY 2025**); (2) building energy reduction (**10% pilot reduction target**, universal Energy Performance Certificates, **21 °C / 25 °C** indoor setpoints, and LED/BMS retrofits); (3) campus-wide renewable energy expansion (**15.2 MWe solar PV generating 24,219,130 kWh in CY 2025 + 1,565,990 kWh geothermal heat + solar Smart Gazebos**); (4) green and smart building standards (**17 smart buildings covering ~236,000 m²**); (5) a binding **2049 Zero-Carbon Target**; and (6) multi-stakeholder governance via **KALBİS and Senate Decision No. 721/11 (30 December 2025)**.

In 2025, DEÜ actively shared its Climate Action Plan, emission inventories, and adaptation outcomes with both **local/regional government authorities** and **local community groups**:

- **1. Sharing with Local & Regional Government (11 Dec, 18 Sep & 29 Dec 2025):** On 11 December 2025, DEÜ formally presented and reviewed its Climate Action Plan, 15.2 MWe solar generation, energy retrofits, and 2025 emission results with 45 senior representatives from 28 external institutions—including the İzmir Governorship, İzmir Metropolitan Municipality, district municipalities, İZKA, and provincial ministry directorates—at the DEÜ External Stakeholder Advisory Board Meeting. On 18 September 2025, climate adaptation data were shared with İZSU and İZKA at the İzmir Bay Ecosystem-Based Management Stakeholder Workshop (Historic Coal Gas Factory), followed on 29 December 2025 by the signing of the İzmir Disaster Master Plan Protocol with İzmir Metropolitan Municipality and İYTE.
- **2. Sharing with Local Community Groups & Civil Society (21 Nov, 25–27 Sep & 25 Dec 2025):** On 21 November 2025, DEÜ co-organised the 'One Health Approach in Municipal Services in Disasters' symposium with the İzmir City Council at the Ahmed Adnan Saygun Arts Centre (~300 municipal staff, neighborhood heads, and civic representatives). Clean-energy and decarbonisation targets were shared with ~30,000 citizens at the 'Tracing the Twin Transition' Festival (25–27 September 2025), and wildfire

adaptation and soil carbon restoration measures were shared with the TEMA Foundation and community volunteers at the 'Leave a Breath to the Soil' event (25 December 2025).

4. Co-operative Climate Disaster Planning, Early-Warning Systems & NGO Partnerships (THE 13.3.3 – 13.3.5)

4.1 Co-operative Planning for Climate Change Disasters & Displacement (Indicator 13.3.3)

DEÜ participates in co-operative planning with local, regional, national, and European partners for climate-compounded disasters—including hydrometeorological hazards, coastal flooding, marine ecosystem crises, and both **internal and cross-border population displacement**:

- **1. National & Regional Ecosystem-Based Disaster Risk Reduction with AFAD (May 2025):** Prof. Dr. Adile Melis Somay Altaş (Department of Geological Engineering) served on the organising committee of the AFAD EcoDRR Conference in Antalya (May 2025), contributing hydrogeological hazard methodologies and nature-based solutions (NbS) for watershed, wetland, aquifer, and coastal buffer protection into AFAD's Provincial Disaster Risk Reduction Plans (İRAP).
- **2. Regional Climate & Disaster Resilience Planning for İzmir Bay with İZKA & İZSU (4 June 2025 – January 2026):** Led by Dr. Gökhan Kaboğlu (with Dr. Sinem Oğuz Kaboğlu, J. Kayaalp, Dr. Hakan Alyürük, Dr. Canan Eronat, and C. Coşkunışık Bozdağ), the DEÜ Institute of Marine Sciences and Technology (DBTE) executed the İZKA-funded project 'Establishing the Technical Infrastructure of a Spatial Information Platform for Ecosystem-Based Management in İzmir Bay' (AVESİS ID b53cd202-581c-4dfb-8aaf-8b30f80dc0b5) for the İZSU General Directorate of İzmir Metropolitan Municipality, presenting the GIS architecture at the 18 September 2025 Historic Coal Gas Factory stakeholder workshop.
- **3. Municipal 'One Health' Disaster Planning (21 November 2025) & İzmir Disaster Master Plan Protocol (29 December 2025):** Prof. Dr. Turgay İnceboz and Prof. Dr. Orhan Yılmaz co-organised the 'One Health Approach in Municipal Services in Disasters' symposium with the İzmir City Council (~300 attendees, 21 Nov 2025), transmitting policy recommendations on flash-flood sanitation, extreme heatwaves, and vector-borne pathogen surveillance to İzmir municipalities. On 29 December 2025, DEÜ (through DAUM, directed by Prof. Dr. Hasan Sözbilir) signed the comprehensive İzmir Disaster Master Plan Protocol with İzmir Metropolitan Municipality and İYTE covering all 30 districts of İzmir.
- **4. Internal & Cross-Border Climate Displacement Planning (341-Neighborhood Study, ADEP SBA-2024-3383 & EUPOLY-MIG):** At the local/regional scale, DEÜ urban planners and architects completed an ADEP-funded multi-hazard (flood, landslide, seismic) vulnerability mapping study across 341 urban and rural neighborhoods in southern İzmir (Bayındır, Beydağ, Kiraz, Ödemiş, Selçuk; published in Sustainability, September 2025; Grant No. SBA-2024-3383), evaluated safe emergency assembly and shelter capacities, and developed flexible central, linear, and clustered container-settlement models for displaced populations (Journal of Disaster and Risk, Vol. 22, 2026). At the international and cross-border scale, through the EU Erasmus+ Jean Monnet Module EUPOLY-MIG ('European Union Policies on Migration', Project No. 101085159, led by Prof. Dr. Müge Aknur) and its international workshop with Sapienza University of Rome (14–15 April 2025), DEÜ scholars examine climate- and crisis-driven migration governance across the Mediterranean.

4.2 Informing & Supporting Government in Climate Risk Monitoring & Early Warning (Indicator 13.3.4)

DEÜ provides continuous scientific monitoring, satellite/AI early-warning modelling, and contracted technical decision support to municipal, regional, and national government authorities:

Monitoring / Early-Warning Programme	Government Partner / Beneficiary	Period & Contract Budget	Climate Risk & Early-Warning Output
İzmir Bay Spatial Information Platform (GIS)	İZKA (Funder) & İZSU General Directorate, İzmir Metropolitan Municipality	Jun 2025 – Jan 2026 (AVESİS ID b53cd202)	Multi-layered GIS decision-support architecture linking ecosystem services, climate pressures & marine disaster resilience.
İzmir Inner Bay Algal Bloom Detection Project	Public Marine & Municipal Water Authorities (with İZSU & Prov. Dir.)	2025 Contracted Service (TRY 720,000)	Shipboard profiling (DBTE), microreactor nutrient analysis, fluorometric chlorophyll-a/DO & satellite early warning of HABs/hypoxia.
'A Breath for İzmir' (İzmir İçin Nefes) Bay Assessment	Public Environmental & Municipal Authorities / YÖK COP31 Portfolio	2025 Contract (TRY 2,520,000; 28 Nov–18 Dec 2025)	Led by Prof. Dr. Azize Ayol; quantifies terrestrial pollution loads, seawater warming & dissolved oxygen depletion in İzmir Bay.
Central Campus Forest Air/Met Station & Watershed Risk Modelling	Ministry of Agriculture & Forestry (SYGM), Prov. Dir. of Environment & Municipalities	2025–2026 Continuous Monitoring & Peer-Reviewed Models	Continuous PM10/PM2.5/SO2/NOx/O3/CO & met station; Sentinel-5P smoke/air ML (Bilgiç & Elbir 2025); Küçük Menderes RCP 8.5 heat-index zoning (Günaçtı et al. 2025); entropy flood risk (Barbaros & Baran 2025); SAR rapid flood mapping (Eminoğlu & Erdin 2026); ML drought prediction (Prof. B. Hüdaverdi Aktaş).
İzmir Integrated Coastal Zone Planning & 'Towards COP31' Panel 2	Ministry of Environment, Urbanisation & Climate Change / Health Authorities	Jan–Dec 2026 & 26 Oct 2026 Panel	DBTE coastal/marine spatial planning consultancy (AVESİS d03ddbb8); AI port digital twins (Asst. Prof. G. Y. Kolcubaşı) & Climate-Sensitive Disease Early Warning System (Prof. A. H. Baskın).



Figure 5a: DEÜ Institute of Marine Sciences and Technology (DBTE / IMST) at İnciraltı Campus, headquarters of R/V Koca Piri Reis and the İzmir Bay Algal Bloom & GIS Spatial Platform projects.



Figure 5b: Construction of the 300-tonne underground rainwater harvesting tank at 15 Temmuz Health and Arts Campus, supporting urban drought and flash-flood adaptation.

4.3 Collaboration with NGOs on Climate Adaptation & Climate Litigation (Indicator 13.3.5)

DEÜ collaborates with national and local non-governmental organisations on wildfire and soil adaptation, community disaster preparedness, and climate litigation standing:

NGO Partner	NGO Type	Activity Date & Scope	Climate Adaptation & Resilience Deliverable
TEMA Foundation & Genç TEMA Student Society	Environmental NGO (Foundation)	25 Dec 2025 ('Leave a Breath to the Soil') & Year-Round 2025	Seminar on 'Forest Ecosystems and Forest Fires' + hands-on seed-tubing workshop (>120 participants potting >100 native tree/acorn seeds in 15 cm recycled containers); Sasalı Bird Sanctuary (15 Mar) & İzmir Wildlife Park (22 Mar) visits; 2 co-authored Dec 2025 guides ('Healthy Soil Guide' & 'Post-Wildfire Ecosystem Restoration Guide').
Turkish Red Crescent (Kızılay)	Humanitarian Disaster NGO	13 Nov 2025 (Faculty of Science & Letters Block C) & 2025 Drives	Disaster Response Centre Directorate briefing & practical field erection of emergency disaster-relief tents (>150 participants); >350 blood units & 120+ stem-cell registrations across 2025.
Environmental NGOs & Bar Association Commissions	Civil Society Organisations (TÜBİTAK 3005 & COP31)	Feb 2025 – May 2026 (AVESİS ID f59f5985)	TÜBİTAK 3005 project led by Asst. Prof. Dr. Ezgi Palas Dağlı (Faculty of Law) developing legal/institutional solutions to widen NGO locus standi (standing to sue) in environmental and climate litigation.

NGO Partner	NGO Type	Activity Date & Scope	Climate Adaptation & Resilience Deliverable
SAR Search & Rescue Association & ÜNİDES Climate Call	Search & Rescue NGO / Youth Civil Society	May 2026 & Nov 2026 (Continuity)	Joint disaster awareness training & drill at Bergama Vocational School (May 2026); DEÜ Photography Society 'Sustainable Frame: AI and the Future' COP31 project (Nov 2026).



Figure 6a: DEÜ Faculty of Science student and community outreach activities at Central Campus, site of the annual TEMA Foundation 'Leave a Breath to the Soil' and Kızılay disaster trainings.



Figure 6b: Industrial organic waste composting unit at DEÜ Central Campus converting dining-hall bio-waste into soil amendment in alignment with the DEÜ–TEMA Healthy Soil Guide.

Hydrogen technologies and energy transition

Dokuz Eylül University hosted the 9th International Hydrogen Technologies Congress (IHTEC 2025) at its Continuing Education Centre (DESEM) on 25–28 May 2025, in collaboration with the Hydrogen Technologies Association. Co-chaired by Prof. Dr. Azize Ayol and Prof. Dr. Can Özgür Çolpan, the congress received more than 400 submissions from 25 countries. The announced programme comprised 296 oral presentations and 71 poster presentations across 40 thematic sessions, alongside panels, workshops and an exhibition. Green hydrogen commercialisation and the decarbonisation of energy systems were among its themes. The congress provided a forum for researchers, students, industry representatives and decision makers to exchange knowledge on the clean energy transition (Figure 7).



Figure 7. Participants at IHTEC 2025 at DESEM, İzmir, 25–28 May 2025. Photograph published by the DEÜ Faculty of Engineering in its congress gallery.

Sources: DEÜ congress announcement | Faculty of Engineering photo gallery

DEPARK BAMBU UP Demo Day

DEPARK's BAMBU Entrepreneurship Office brought entrepreneurs together with investors, industry representatives, academics and students at BAMBU UP Demo Day in DEÜ's 15 July Martyrs Hall. The University news article, published on 2 July 2026, reports that 36 of 93 applicants were admitted to the BAMBU Speed Up programme. Following six months of training, workshops and mentoring, 21 ventures qualified for jury evaluation and 10 presented at Demo Day. The event illustrates the University's support for developing and commercialising entrepreneurial projects (Figure 8). The programme supports knowledge exchange between the University and its regional entrepreneurship ecosystem.



Figure 8. A presentation at DEPARK BAMBU UP Demo Day. Photograph from the DEÜ news article published on 2 July 2026.

Sources: DEÜ news article and photograph

Solar engineering through international competition

DEÜ Solar Team Solaris competed at Albi Eco Race 2025 in Albi, France, on 22–24 May 2025 as the only team representing Türkiye. Combining solar energy with vehicle engineering, the team achieved second place in the Efficiency category and third place in the Solar Challenge category. The Department of Mechanical Engineering's announcement recognises the guidance of the team's academic adviser, Assoc. Prof. Dr. Aytaç Gören, and the contributions of its student members. This activity connects applied engineering education with renewable energy use and vehicle efficiency, giving students an international setting in which to demonstrate their technical work (Figure 9).



Figure 9. Solar Team Solaris with its solar vehicle at Albi Eco Race 2025, France, 22–24 May 2025. Photograph from the DEÜ Department of Mechanical Engineering archive.

Sources: Department announcement and photographs

Ecosystem based management of İzmir Bay

On 18 September 2025, a stakeholder workshop at İzmir's Historic Coal Gas Factory addressed the transition to ecosystem based management of İzmir Bay. The project was supported by the İzmir Development Agency (İZKA), with İZSU as beneficiary and DEÜ's Institute of Marine Sciences and Technology as contractor. Participants from public institutions, universities, civil society organisations and cooperatives discussed ecological needs, data gaps, ecosystem services, climate change and disaster resilience. DEÜ researchers presented work on decision support tools and the technical infrastructure for a geographical information system based spatial information platform. The workshop linked scientific expertise with stakeholder needs for protecting the Bay's ecological integrity (Figure 10).



Figure 10. Stakeholders at the İzmir Bay ecosystem based management workshop at the Historic Coal Gas Factory on 18 September 2025. Photograph from İZSU's report published on 19 September 2025.

Sources: DEÜ workshop announcement | İZSU workshop report and photographs

Scientific cooperation for earthquake resilience

In a report published on 29 December 2025, DEÜ documented a cooperation protocol with İzmir Metropolitan Municipality and İzmir Institute of Technology for preparing İzmir's Earthquake Master Plan. The partnership brings university expertise into the assessment of seismic hazards, ground conditions, buildings and infrastructure, alongside urban planning, public awareness and risk management. DEÜ's Earthquake Research and Application Centre also reported the initiative and its coordination structure. This is evidence of university–municipality cooperation on disaster risk reduction and urban resilience (Figure 11). The partnership connects scientific assessment with local planning and preparedness for seismic hazards.



Figure 11. Representatives of DEÜ, İzmir Metropolitan Municipality and İzmir Institute of Technology display the Earthquake Master Plan cooperation protocol. Photograph from the DEÜ report dated 29 December 2025.

Sources: DEÜ protocol report and photograph | DEÜ Earthquake Research and Application Centre

Forest ecosystems and seed propagation with TEMA

DEÜ's Faculty of Science announced a joint activity with the TEMA Foundation for 25 December 2025 under the theme "Toprağa Bir Nefes Bırak". The programme combined a seminar on forest ecosystems and forest fires with a practical seed propagation activity, while offering opportunities to join the GENÇ TEMA student community. Participants were asked to bring a pot, preferably made from recycled material, and soil; TEMA would provide the seeds. The announcement documents an educational partnership linking forest awareness with practical environmental participation (Figure 12). The programme connects knowledge about forest fire risks with opportunities for students and staff to take part in environmental volunteering.



Figure 12. Official poster announcing the TEMA forest ecosystems and forest fires seminar and seed propagation activity on 25 December 2025.

Sources: DEÜ event announcement and poster

Disaster preparedness education with Kızılay

DEÜ's Faculties of Science and Letters, through their social responsibility commissions, announced a blood donation and disaster information event with the Turkish Red Crescent (Kızılay) for 13 November 2025, from 13.00 to 14.30 in the C Block Conference Hall. The programme included contributions from the Blood Centre and Disaster Response Centre, information on setting up disaster tents, and an all-day blood donation station. The announcement documents collaboration with a humanitarian organisation to offer practical preparedness information to students and staff (Figure 13). The planned activities combine awareness raising with information about emergency shelter and opportunities for voluntary humanitarian support.



Figure 13. Official Kızılay information seminar poster for 13 November 2025, published with DEÜ's blood donation and disaster information announcement.

Sources: DEÜ event announcement and posters

5. Commitment to Carbon-Neutral University & 2049 Target Date (THE 13.4.1 & 13.4.2)

5.1 Binding 2049 Carbon-Neutrality Target Covering Scope 1 & Scope 2 (Indicators 13.4.1 & 13.4.2)

Dokuz Eylül University has formally committed to achieving **zero carbon emissions (carbon neutrality) across both Scope 1 and Scope 2 emissions—with progressive Scope 3 integration—by the target year 2049** (https://greencampus.deu.edu.tr/tr/sifir-karbon-hedefi/). Anchored in the **DEÜ Rectorate Climate Action Plan Integration Decision (14 March 2019 / November 2021)**, the **Sustainability and Climate Action Policy (April 2024)**, and **University Senate Decision No. 721/11 (30 December 2025)**, DEÜ targets an **average annual emission reduction rate of 25–30%** driven strictly by direct on-campus renewable energy expansion, building thermal/BMS retrofits, and fleet electrification.

Crucially, **DEÜ does not use purchased carbon credits or external offsets to meet its 2025 inventory or 2049 target (Offsets = 0 t CO2e)**. In full compliance with THE Impact Rankings 2027 guidance and the 2022 recommendations of the **UN High-Level Expert Group on Net-Zero Emissions Commitments ('Integrity Matters')**, if any credits are utilized in the final residual stage toward 2049, only high-integrity, permanent carbon-removal credits will be counted. Furthermore, DEÜ protects **approximately 3.1 million m² (3,100,000 m²) of Mediterranean pine and woodland forest on university land** as a natural carbon sink, which is reported transparently as a separate ecological asset and **not netted against gross Scope 1 and Scope 2 emissions**.

5.2 Calendar Year 2025 Greenhouse Gas Protocol Inventory (Prepared 19 January 2026)

DEÜ measures its institutional greenhouse gas emissions annually using the **US EPA Simplified GHG Emissions Calculator** structured according to the **WRI/WBCSD Greenhouse Gas Protocol Corporate Accounting and Reporting Standard**. The official **2025 Greenhouse Gas Inventory (covering 1 January – 31 December 2025, prepared on 19 January 2026)** (https://greencampus.deu.edu.tr/wp-content/uploads/2026/01/2025-CO2.pdf) documents a combined **Scope 1 + Scope 2 total of 16,395 t CO2e** (plus **29 t CO2e** in partial Scope 3 solid-waste emissions):

GHG Protocol Scope	Emission Source & 2025 Activity Basis	2025 Emissions	Decarbonization Pathway & Verification Note
Scope 1 — Stationary Combustion	Natural gas heating, hot water & kitchens (17,447,010 kWh)	3,638 t CO2e	Geothermal heat at 15 Temmuz (1,565,990 kWh / 5,638 GJ), 21 °C heating cap & TS 825 insulation.
Scope 1 — Mobile Sources (Fleet)	University fleet of 92 vehicles (diesel & petrol)	256 t CO2e	Digital vehicle route-tracking system, electric utility vehicles at hospital & 7 campus EV charging stations.

GHG Protocol Scope	Emission Source & 2025 Activity Basis	2025 Emissions	Decarbonization Pathway & Verification Note
Scope 1 — Refrigeration & AC	Refrigerant leakage across campus chillers/AC	0 t CO2e	Scheduled preventive maintenance & sealed VRF/heat-pump systems (25 °C cooling cap).
Total Scope 1 Direct Emissions	All direct on-campus combustion & fleet sources	3,894 t CO2e	23.75% of combined Scope 1 + Scope 2 footprint.
Scope 2 — Purchased Electricity (Location-Based)	Grid electricity draw (17,468,599 kWh excl. hospital)	12,501 t CO2e	15.2 MWe Solar PV (24,219,130 kWh / 87,189 GJ in CY 2025; 87% active rollout, up to 83% short-term demand), TEAM wind (913 kWh), Smart Gazebos & 17 smart buildings (236,000 m²).
Scope 2 — Purchased Electricity (Market-Based)	Grid electricity draw (zero external certificates netted)	12,501 t CO2e	Reported identically to location-based Scope 2 with zero purchased carbon offsets applied.
Combined Scope 1 + Scope 2 Total	Mandatory THE 13.4.1 & 13.4.2 Carbon-Neutrality Boundary	16,395 t CO2e	Target: 0 t CO2e by 2049 via 25–30% average annual reduction rate (Offsets = None).
Scope 3 (Partial) — Solid Waste & Other	Campus solid waste disposal (business travel/commuting not yet quantified)	29 t CO2e	Zero Waste sorting & recycling; ~3.1 million m² campus forest carbon sink protected & reported separately.

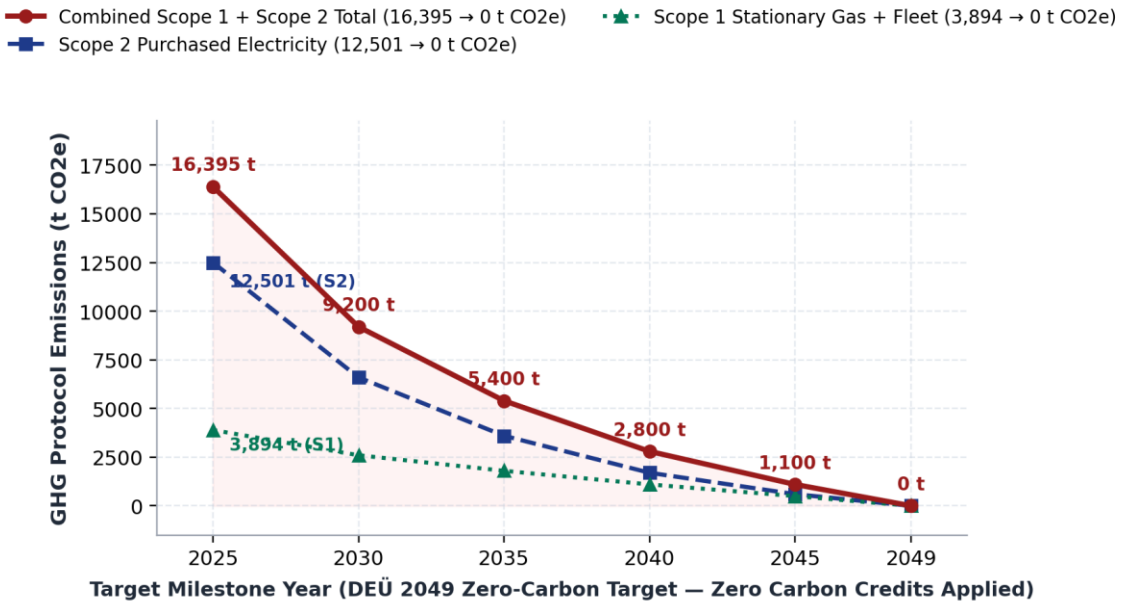

Figure 7: DEÜ 2025–2049 Carbon-Neutral University Decarbonization Trajectory across Combined Scope 1 + Scope 2 (16,395 t CO2e → 0 t CO2e), Scope 2 Electricity (12,501 t CO2e), and Scope 1 Direct Emissions (3,894 t CO2e) with zero carbon offsets applied.



Figure 8a: Satellite mapping of DEÜ Central Campus showing the surrounding ~3.1 million m² protected Mediterranean pine forest carbon sink and unsealed natural absorption zones.



Figure 8b: Zero-emission electric vehicles operating on the 15 Temmuz Health and Arts Campus alongside 7 campus EV charging stations and digital fleet route optimization.

6. THE Impact Rankings 2027 SDG 13 Complete Indicator Crosswalk & 2026–2049 Milestones

Table 8 provides the complete verification crosswalk across all nine **THE Impact Rankings 2027 SDG 13 indicator files (13.2.1–13.4.2)**, confirming **100% numerical and documentary consistency** between this

SDG 13 Progress Report, the individual SDG 13 evidence dossiers, and the companion SDG 7 Progress Report.

THE Indicator	Verified 2025 Baseline & Evidence Summary (100% Aligned with Uploaded Files)	2026–2049 Strategic Milestone
13.2.1 Low-Carbon Energy Tracking	Metered solar PV (15.2 MWe), geothermal heat & wind; certified Energy Managers record building electricity/gas in ENVER; 17 smart buildings (236,009 m²); 21 °C/25 °C setpoints; İstanbul Enerji A.Ş. 8-campus energy audits.	Complete remaining solar PV capacity rollout (from 87% active to 100%) and expand BMS telemetry across all campuses.
13.2.2 Low-Carbon Energy Use (CY 2025)	Total Energy Used (Excl. 101,056 m² Hospital, across 719,993 m²): 131,337 GJ (36,482,512 kWh) | Low-Carbon Energy Used: 92,830 GJ (25,786,033 kWh = 87,189 GJ Solar PV + 5,638 GJ Geothermal + 3.3 GJ Wind) = 70.7% share (56.2% in 2024–25; 51.0% in 2025–26).	Surpass 80% low-carbon energy coverage across academic/research campuses through heat-pump and solar additions.
13.3.1 Local Education Programmes on Climate	294 social responsibility projects in 2025 (4th in Türkiye per YÖK); 224 SDG 13 AVESİS records (13 events); 218 GreenMetric events; 9 flagship 2025 local climate education campaigns (~30,000 at Twin Transition Festival).	Scale the three-tier DEÜ Green Collars Certification Programme (launched June 2026) and deliver 83 YÖK-accepted COP31 projects.
13.3.2 Climate Action Plan, Shared	İklim-DE Climate Action Plan integrated via 14 Mar 2019 decision & Nov 2021 Rectorate Letter; reinforced by Apr 2024 Policy & 30 Dec 2025 Senate Decision No. 721/11; shared with 28 institutions (11 Dec 2025), İZSU/İZKA (18 Sep 2025) & City Council (21 Nov 2025).	Publish updated 2026–2030 Climate Action Implementation Dossier aligned with UNFCCC COP31 outcomes.
13.3.3 Co-operative Planning for Disasters	AFAD EcoDRR (May 2025); İZKA–İZSU İzmir Bay Spatial Platform (Jun 2025–Jan 2026); City Council One Health Symposium (21 Nov 2025); İzmir Disaster Master Plan Protocol (29 Dec 2025); 341-neighborhood vulnerability & shelter study (ADEP SBA-2024-3383); EU Jean Monnet EUPOLY-MIG.	Execute 30-district İzmir Disaster Master Plan deliverables and Ministry of Environment Integrated Coastal Zone Planning (2026).
13.3.4 Inform & Support Government	İZKA–İZSU GIS Platform; DBTE Inner Bay Algal Bloom Detection (TRY 720,000); 'A Breath for İzmir' Bay Ecosystem Project (TRY 2,520,000); Central Campus air/met station; Küçük Menderes RCP 8.5 heat, SAR flood & ML drought models; SYGM consultancy & COP31 Panel 2.	Operationalize AI port climate-adaptation digital twins and Climate-Sensitive Disease Early Warning Decision-Support System.

THE Indicator	Verified 2025 Baseline & Evidence Summary (100% Aligned with Uploaded Files)	2026–2049 Strategic Milestone
13.3.5 Collaborate with NGOs on Adaptation	TEMA Foundation ('Leave a Breath to the Soil' seminar & >100 seed-tubing workshop on 25 Dec 2025; Genç TEMA; 2 adaptation guides); Turkish Red Crescent Kızılay (13 Nov 2025 disaster tent training for >150 participants); TÜBİTAK 3005 NGO climate litigation project; SAR drill.	Expand post-wildfire reforestation seed-tubing drives and publish TÜBİTAK 3005 legislative reform proposals for NGO climate standing.
13.4.1 Commitment to Carbon-Neutral University	Committed to Scope 1 + Scope 2 carbon neutrality (with partial Scope 3) under GHG Protocol; CY 2025 EPA inventory (19 Jan 2026): Scope 1 = 3,894 t CO2e (3,638 t gas + 256 t fleet), Scope 2 = 12,501 t CO2e, Scope 1+2 = 16,395 t CO2e, Scope 3 waste = 29 t CO2e; 0 offsets; ~3.1M m² forest.	Quantify additional Scope 3 categories (commuting & business travel) while cutting Scope 1+2 emissions by 25–30% annually.
13.4.2 Achieve By (Target Date)	2049 Target Date for Scope 1 and Scope 2 carbon neutrality (approved via 14 Mar 2019 / Nov 2021 Rectorate Decision, Apr 2024 Policy & 30 Dec 2025 Senate Decision No. 721/11); relies on direct reductions with zero carbon credits.	Achieve interim 2030 milestone (~9,200 t CO2e Scope 1+2) and full Scope 1+2 zero-carbon status by 2049.