



Smart Campus Water Monitoring and Reuse Pilot



A data-driven demonstration for reducing potable-water demand and strengthening campus climate resilience

ÇOMÜ GREEN TRANSITION LIVING LAB

PROJECT AIM

To design, deploy and evaluate an integrated monitoring-and-reuse system that quantifies campus water flows, detects avoidable losses, and assesses the safe substitution of reclaimed water for selected non-potable uses.

PHOTO / FIGURE

Insert a verified prototype, field implementation or measured-output image.
Add a concise scientific caption and image credit.

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EVIDENCE AND OUTPUTS

- Baseline and post-intervention water-balance data
- Sensor-supported monitoring protocol
- Pilot-scale reuse unit and operational workflow
- Water-quality and risk-control results
- Verified reduction in potable-water demand: [XX%]
- Annual water saving: [XX m³ year⁻¹]
- Replication guidance for other campuses

TECHNOLOGY READINESS LEVEL

ILLUSTRATIVE ASSESSMENT: TRL 6 — Technology demonstrated in a relevant environment. Replace this statement with a documented TRL assessment and supporting evidence. If no technology is developed, state ‘Not applicable’.

IMPLEMENTATION

STUDY DESIGN

Baseline assessment → pilot installation → monitored operation → performance verification → scale-up analysis

IMPLEMENTATION SITE

[Campus / building / laboratory]

PROJECT PERIOD

[Month Year – Month Year]

LEAD UNIT AND PARTNERS

[Unit, research team, external stakeholders]

COP31 RELEVANCE

ADAPTATION AND RESILIENCE

Improves preparedness for water scarcity and climate-related supply stress.

MITIGATION AND RESOURCE EFFICIENCY

Reduces energy and emissions associated with water abstraction, treatment and distribution.

TECHNOLOGY AND CAPACITY BUILDING

Creates a measurable, replicable campus demonstration and a learning environment for students and practitioners.

THEMATIC AREA AND RATIONALE

PRIMARY AREA

Water management, climate adaptation and resource efficiency

WHY THIS AREA?

The project generates operational evidence on water demand, reuse performance and risk controls. Its core contribution is therefore the implementation of a climate-resilient water-management solution rather than awareness raising alone.

SECONDARY LINKS

Digital environmental monitoring; sustainable infrastructure; circular economy; climate education.

MEASURED CONTRIBUTION AND SCALABILITY

REPORT ONLY VERIFIED RESULTS

- Environmental performance: [indicator, value, unit, period]
- Operational performance: [indicator, value, unit, period]
- Beneficiaries / users reached: [verified number]
- Scientific or technical outputs: [dataset, publication, protocol, patent or prototype]

SCALABILITY

Describe the conditions required for replication, including infrastructure, cost, expertise, governance and monitoring. Distinguish demonstrated outcomes from projected benefits.

PROJECT TEAM AND CONTACT

PRINCIPAL INVESTIGATOR

[Academic title, name, surname]

UNIT

[Faculty / school / centre / office]

E-MAIL

[name@comu.edu.tr]

WEB / DOI / DATASET

[Verified persistent link]

FUNDING

[Programme and project number, if applicable]



SCAN FOR THE ONLINE CATALOGUE,
PROJECT DETAILS AND CONTACT INFORMATION

cop31.comu.edu.tr

Green Transition and Sustainability Coordination Office
ydk@comu.edu.tr



Smoke-Free Campus: Healthy Future

A university-wide governance and behaviour-change framework for healthier, cleaner and more inclusive campuses

ÇOMÜ GREEN TRANSITION LIVING LAB

PURPOSE

To establish a coordinated smoke-free campus approach that protects public health, improves the quality of shared outdoor and indoor spaces, reduces cigarette-related litter, and embeds prevention, communication and monitoring into routine campus management.

PHOTO / FIGURE

Insert a verified prototype, field implementation or measured-output image.
Add a concise scientific caption and image credit.

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Insert a verified prototype, field implementation or measured-output image.
Add a concise scientific caption and image credit.

GOOD-PRACTICE MODEL

1. Institutional policy and clear responsibilities
2. Campus-wide communication and visible guidance
3. Stakeholder engagement and feedback mechanisms
4. Designated operational arrangements where required
5. Supportive, non-stigmatising behaviour-change communication
6. Periodic observation, incident and litter monitoring
7. Review and continuous improvement based on evidence

PRACTICE MATURITY

TRL is generally NOT APPLICABLE to organisational good practices. Instead, report the implementation stage: piloted, institutionally adopted, routinely monitored, independently evaluated, or replicated by another unit/institution.

VERIFIED RESULTS TO REPORT

- Campuses / buildings covered: [XX]
- People reached: [XX]
- Monitoring rounds completed: [XX]
- Change in cigarette-litter density: [XX%]
- Change in compliance indicator: [XX%]
- Training or communication outputs: [XX]
- Stakeholder satisfaction / feedback: [method and result]

COP31 RELEVANCE

MITIGATION CO-BENEFITS
Supports lower-waste, healthier public environments and can reduce the environmental burden of tobacco-related waste.

ADAPTATION AND RESILIENCE
Strengthens campus governance, health protection and institutional capacity to manage environmental and public-health risks.

WHOLE-OF-SOCIETY ACTION
Mobilises students, staff, service providers and visitors through a shared institutional framework.

THEMATIC AREA AND RATIONALE

PRIMARY AREA
Healthy, sustainable and inclusive campuses

WHY THIS AREA?
The practice integrates public-health protection, environmental quality, waste prevention and participatory governance into day-to-day university operations. It demonstrates how institutional policy can translate sustainability commitments into visible campus action.

SECONDARY LINKS
Zero waste; behaviour change; youth participation; environmental education; institutional capacity building.

TRANSFERABILITY AND QUALITY ASSURANCE

TRANSFERABLE ELEMENTS
Policy template; implementation protocol; communication materials; monitoring indicators; feedback mechanism; annual review process.

QUALITY ASSURANCE
Describe data-collection frequency, indicator definitions, responsible unit, corrective-action process and review authority. Where outcomes are self-reported, disclose this limitation.

REPLICATION CONDITIONS
Senior leadership commitment, clear governance, communication capacity, stakeholder participation and an auditable monitoring plan.

RESPONSIBLE UNIT AND CONTACT

RESPONSIBLE UNIT
[Office / faculty / administrative unit]

PRACTICE LEAD
[Academic or administrative title, name, surname]

E-MAIL
[name@comu.edu.tr]

IMPLEMENTATION PERIOD
[Month Year – ongoing / completed]

EVIDENCE LINK
[Policy, report, dataset or news page]



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Illustrative example — replace placeholders with verified evidence, implementation photographs and contacts.