

T.C.
BOZCAADA MUNICIPALITY
COUNCIL DECISION

Page 1 / 12

DECISION NO : 2026/68
DECISION DATE : 06/08/2026
SUBMISSION DATE: 31/07/2026
DEPARTMENT : DIRECTORATE OF TECHNICAL AFFAIRS
UNIT : DIRECTORATE OF TECHNICAL AFFAIRS
SUBJECT : CLIMATE ACTION AND RESILIENCE PLAN
TIME : 15:00

COUNCIL MEMBERS

MAYOR	: Yahya GÖZTEPE	COUNCIL CLERK	: Gülay ELBİR USLU
COUNCIL CLERK	: Günay YURDAKUL	COUNCIL MEMBER:	Hüseyin DURMUŞ
COUNCIL MEMBER	: Bilgütay ERGÜL	COUNCIL MEMBER:	F.Hülya KOLOĞLU
COUNCIL MEMBER	: Mustafa KIRLI	COUNCIL MEMBER:	M.Emrah ATAOL
COUNCIL MEMBER	: Kostanti SALTO	COUNCIL MEMBER:	Behiç VARLI

DECISION

ARTICLE 68: In the official letter of the Directorate of Technical Affairs dated 31.07.2026 and numbered E-22082380-000-8201; Drought, heatwaves, wildfire hazards, sea-level changes, and increasing pressures on freshwater resources caused by climate change pose severe environmental, social, and economic risks for our island Bozcaada, which possesses a fragile ecosystem, limited natural resources, and high seasonal population density. In this context, to adapt to climate change and reduce greenhouse gas emissions in line with Bozcaada's sustainable development goals, a comprehensive roadmap draft entitled 'Bozcaada Municipality Climate Action and Resilience Plan (2027–2035)' has been prepared.

The plan draft in question was formulated based on the Ministry of Environment, Urbanization and Climate Change's 2024–2030 Climate Change Mitigation Strategy and Action Plan, the 2024–2030 Climate Change Adaptation Strategy and Action Plan, the European Green Deal, the European Climate Law, and local climate governance principles. The Plan will serve as a foundational reference document for our Municipality's capital investment programs, national/international grant funding mechanisms, and sustainability projects. Furthermore, pursuant to the principles of participatory governance and transparency, the Plan's Turkish and English texts are intended to be published on our official website. Accordingly, the Municipal Council is requested to evaluate and decide upon: the review and adoption of the prepared Draft Bozcaada Municipality Climate Action and Resilience Plan (2027–2035); the implementation of the Plan as a primary policy document in our Municipality's climate change, sustainability, and investment processes; the publication of both Turkish and English versions of the Plan on our Municipality's official website; and conducting the implementation and monitoring processes under the coordination of the relevant directorate while submitting any necessary revision proposals to the Municipal Council.

T.C.
BOZCAADA MUNICIPALITY
COUNCIL DECISION

Page 2 / 12

DECISION: Following the deliberations held by our Council; it was unanimously decided to adopt the Draft Bozcaada Municipality Climate Action and Resilience Plan (2027–2035); to implement the Plan as a primary policy document across our Municipality's climate change, sustainability, and investment workflows; to complete and publish the Turkish and English versions of the Plan on our Municipality's official website no later than within the relevant calendar year; and to carry out all implementation and monitoring processes under the coordination of our Municipality's Directorate of Technical Affairs.

Yahya GÖZTEPE
Mayor

Günay YURDAKUL
Council Clerk

Gülay ELBİR USLU
Council Clerk

BOZCAADA CLIMATE ACTION PLAN 2027–2035

Climate Change Mitigation, Adaptation, and Island Resilience

v0.1 — Document Outline and Initial Action Matrix
July 2026

Document Status

This study is the initial integrated draft of the Climate Action Plan to be prepared for Bozcaada Municipality. This version outlines the plan's section structure, data requirements, preparation methodology, and the preliminary action matrix based on initial evaluation. Quantitative emission reduction targets, baseline year greenhouse gas inventory, and climate risk analysis will be finalized after completion.

The plan is designed as an implementation document for the "Climate Resilience and Energy Transition Policy" under the Bozcaada Nature-Positive Island Governance Framework. It does not replace the local climate change action plan to be prepared at the Çanakkale provincial scale; rather, it serves as an actionable sub-scale program applicable at the municipal and island scale.

Table of Contents / Document Outline

Executive Summary

- Purpose of the plan
- Priority climate risks for Bozcaada
- 2035 orientation
- Top 10 priority actions

1. Purpose, Scope, and Institutional Context of the Plan

- 1.1 Purpose
- 1.2 Scope and geographical boundary
- 1.3 Plan period
- 1.4 Municipal powers and responsibilities
- 1.5 Relationship with higher-level policy documents
- 1.6 Relationship with the Nature-Positive Island Governance Framework

2. Preparation Methodology and Participation Process

- 2.1 Working phases
- 2.2 Data collection and verification
- 2.3 Stakeholder mapping
- 2.4 Island Climate Forum and thematic working groups
- 2.5 Action prioritization methodology

3. Bozcaada's Island and Climate Profile

- 3.1 Population and seasonality
- 3.2 Settlement and land use
- 3.3 Economy, tourism, viticulture, and fisheries
- 3.4 Water, energy, waste, and transportation infrastructure
- 3.5 Observed climate trends
- 3.6 Future climate projections

4. Greenhouse Gas Emissions Inventory

- 4.1 Baseline year selection
- 4.2 Municipal corporate inventory
- 4.3 Island-wide inventory
- 4.4 Scope and emission sources
- 4.5 Seasonal consumption and visitor impact
- 4.6 Data gaps and uncertainties
- 4.7 Business-as-Usual (BAU) scenario

5. Climate Hazard, Risk, and Vulnerability Analysis

- 5.1 Methodology
- 5.2 Drought and water scarcity
- 5.3 Extreme temperatures
- 5.4 Wildfires
- 5.5 Heavy rainfall and surface runoff
- 5.6 Storms and strong winds
- 5.7 Sea level rise and coastal impacts
- 5.8 Ecosystem, agriculture, tourism, and public health impacts
- 5.9 Vulnerable groups and adaptive capacity

6. Vision, Principles, and Target System

- 6.1 2035 Vision
- 6.2 Setting the mitigation target
- 6.3 Adaptation and resilience targets
- 6.4 Climate justice and leaving no one behind
- 6.5 Nature-positivity and island carrying capacity

7. Strategic Pillars and Actions

- 7.1 Climate governance and municipal capacity
- 7.2 Water security and drought resilience
- 7.3 Clean energy and energy efficiency
- 7.4 Low-carbon island transportation
- 7.5 Waste, wastewater, and circular economy
- 7.6 Climate-resilient settlement and infrastructure
- 7.7 Agriculture, viticulture, natural areas, and wildfires
- 7.8 Tourism, public health, and community resilience

8. Financing and Investment Program

- 8.1 Costing approach
- 8.2 Actions to be executed through the municipal budget
- 8.3 National and regional funding
- 8.4 European Union and international funds
- 8.5 Private sector and community partnerships
- 8.6 Project preparation priorities

9. Implementation, Monitoring, and Updating

- 9.1 Climate Coordination Team
- 9.2 Annual implementation program
- 9.3 Performance indicators
- 9.4 Bi-annual monitoring and annual reporting
- 9.5 Open data and public information
- 9.6 Five-year review

Appendices

- Appendix 1 Data request list
- Appendix 2 Greenhouse gas inventory boundaries
- Appendix 3 Risk assessment matrix
- Appendix 4 Stakeholder inventory
- Appendix 5 Detailed action cards
- Appendix 6 Indicator set
- Appendix 7 Financing sources
- Appendix 8 References and methodology documents

Planning Principles

The plan will address mitigation and adaptation together, separate actions under the municipality's direct responsibility from those executed with partner institutions, make seasonal population pressure visible, and link every action with a timeline, responsible entity, cost level, and indicator.

Baseline Year and Target Approach

The baseline year will be selected as the most recent year for which reliable data on energy, transportation, water, waste, and municipal operations are fully obtainable. Percentage emission reduction targets will not be finalized before the inventory is complete.

Monitoring Approach

Actions will be monitored through bi-annual implementation tracking and an annual evaluation report. The plan's action matrix will be a living document; completed, delayed, or modified actions will be updated along with their justifications.

Core Data to be Collected in the Initial Phase

- Energy/fuel consumption for 2022–2025 across municipal buildings, facilities, pumps, vehicles, and heavy machinery.
- Island-wide electricity consumption: residential, commercial, industrial/agricultural, with monthly breakdowns where possible.
- Ferry passenger and vehicle counts; seasonal vehicle entries, parking data, and municipal transit operations.
- Drinking water production, network supply, billing, non-revenue water/losses, reservoir and pump consumption; monthly breakdowns.

T.C.
BOZCAADA MUNICIPALITY
COUNCIL DECISION

Page 5 / 12

- Wastewater flow rates, energy consumption, treatment performance, and sludge quantities.
- Solid waste, packaging, and organic waste quantities; transfer trips and fuel consumption; monthly breakdowns.
- Accommodation capacity, overnight stays, day-trippers, and tourism season indicators.
- Wildfire logs, drought indicators, heatwave events, heavy precipitation, storms, and coastal damage records.
- Producer data on vineyard areas, irrigation practices, crop yield, and climate-induced losses.
- Inventory of vulnerable populations, healthcare services, emergency capacity, cooling centers, and critical infrastructure.

T.C.
BOZCAADA MUNICIPALITY
COUNCIL DECISION

Page 6 / 12

Initial Action Matrix

The matrix below is a preliminary draft. Responsible units, timeline, cost, baseline values, and quantitative targets will be finalized following data verification with municipal departments and stakeholders.

Code	Action	Municipal Role	Period	Priority	Cost	Indicator / Initial Output	Climate Contribution
YÖN-01	Establishment of Municipal Climate Coordination Team	Direct	2027	Very High	Low	Team and job description; min. 4 meetings/year	Both
YÖN-02	Implementation of climate impact checklist for municipal services and investments	Direct	2027–2028	High	Low	Ratio of investments/decisions screened with checklist	Both
YÖN-03	Formation of Island Climate Forum and thematic stakeholder working groups	Coordination	2027–2035	High	Low	Annual forum; number of participants and proposals	Adaptation
YÖN-04	Preparation of annual climate implementation and investment program	Direct	Every year	Very High	Low	Annual program and progress report	Both
SU-01	Preparation of island water budget and seasonal water demand model	Coordination	2027	Very High	Medium	Monthly water budget; supply-demand scenarios	Adaptation
SU-02	Network non-revenue water metering and reduction program	Direct/Joint	2027–2030	Very High	High	Metered water balance; annual drop in loss rate	Both
SU-03	Drought early warning and phased response plan	Coordination	2027–2028	Very High	Low	Drought thresholds and response levels	Adaptation
SU-04	Water efficiency program in municipal facilities, accommodation businesses, and public spaces	Regulation/Incentive	2028–2032	High	Medium	Number of participating facilities; reduction in unit consumption	Both
SU-05	Feasibility and pilot application for safe reuse of treated wastewater	Joint	2027–2031	Very High	High	Feasibility; pilot volume; reused water quantity	Both
EN-01	Establishment of municipal energy audit and consumption monitoring system	Direct	2027	Very High	Medium	Facility-based energy inventory and monthly tracking	Mitigation
EN-02	Energy efficiency program for pumps, motors, and treatment equipment	Direct	2027–2030	Very High	Medium/High	kWh/m³ indicator; annual energy savings	Mitigation
EN-03	Self-consumption-oriented renewable energy program for municipal buildings and facilities	Direct/Joint	2028–2033	High	High	Installed capacity; renewable energy share	Mitigation

**T.C.
BOZCAADA MUNICIPALITY
COUNCIL DECISION**

Page 7 / 12

Code	Action	Municipal Role	Period	Priority	Cost	Indicator / Initial Output	Climate Contribution
EN-04	Voluntary energy and water efficiency protocol for tourism businesses	Incentive	2028–2035	Medium	Low/Medium	Number of participating businesses	Both
UL-01	Island mobility and transport survey differentiating summer and winter periods	Coordination	2027–2028	Very High	Medium	Mobility data and scenario report	Mitigation
UL-02	Pedestrian prioritization in center, parking, and seasonal vehicle management program	Regulation/Joint	2028–2032	Very High	Medium/High	Vehicle entries; pedestrian zone; parking occupancy rate	Both
UL-03	Cycling and micromobility network plan with safe parking facilities	Direct/Joint	2028–2032	High	Medium	Network length; bicycle parking capacity	Mitigation
UL-04	Phased fleet transition of municipal vehicles to low-emission alternatives	Direct	2028–2035	Medium	High	Low-emission vehicle ratio; fuel consumption	Mitigation
UL-05	Monitoring ferry and island maritime transport emissions & collaboration with GESTAŞ	Advocacy/Joint	2027–2035	High	Low	Annual passenger-vehicle-emission indicators; joint efforts	Mitigation
AT-01	Regular conduct of seasonal waste volume and composition analysis	Direct	2027–2029	High	Medium	Summer/winter waste characterization	Both
AT-02	Separate management of organic and vineyard/garden waste & composting pilot	Direct/Joint	2027–2030	Very High	Medium/High	Separately collected and composted amount	Both
AT-03	Single-use plastic and food waste reduction program for tourism businesses	Regulation/Incentive	2027–2032	High	Low/Medium	Participating businesses; prevented waste volume	Mitigation
AT-04	Optimization of waste transfer trips, load factors, and fuel consumption	Direct	2027–2028	High	Low/Medium	Fuel per ton-km; number of transfer trips	Mitigation
YER-01	Evaluation framework integrating climate risks into 1/5000 and 1/1000 planning	Coordination	2027–2029	Very High	Low/Medium	Integration of risk maps into planning decisions	Adaptation
YER-02	Climate risk mapping for critical infrastructure and low-elevation areas	Coordination	2027–2028	Very High	Medium	GIS-based risk and critical infrastructure map	Adaptation
YER-03	Permeable surfaces, rain gardens, shading, and cool zone pilots	Direct	2028–2032	High	Medium	Implementation area; surface temperature/water retention index	Adaptation

**T.C.
BOZCAADA MUNICIPALITY
COUNCIL DECISION**

Page 8 / 12

Code	Action	Municipal Role	Period	Priority	Cost	Indicator / Initial Output	Climate Contribution
YER-04	Critical service continuity protocol for water, energy, telecom, and transport disruptions	Coordination	2027–2028	Very High	Low	Protocol and annual drill	Adaptation
TAR-01	Climate vulnerability and adaptation assessment for viticulture and agriculture	Joint	2027–2029	Very High	Medium	Producer-participatory risk and adaptation report	Adaptation
TAR-02	Soil moisture, organic matter, and water efficiency pilots	Incentive/Joint	2028–2033	High	Medium	Number of pilot vineyards; soil and water indicators	Both
TAR-03	Wildfire risk map, settlement-wildland interface, and water intake point plan	Coordination	2027–2028	Very High	Medium	Risk map; access and water intake points	Adaptation
TAR-04	Program to reduce open burning of agricultural residue and promote utilization	Regulation/Incentive	2028–2032	High	Medium	Prevented burn events; utilized residue volume	Both
TOP-01	Local emergency procedure for heatwaves and vulnerable populations	Coordination	2027	Very High	Low	Alert chain; cooling spaces and hydration points	Adaptation
TOP-02	Tourism season climate adaptation, water, waste, and transport communication campaign	Direct/Joint	Every season	High	Low	Reached visitors/businesses; material and channel counts	Both
TOP-03	Island climate volunteers and citizen science program	Coordination	2028–2035	Medium	Low	Number of volunteers; observations/data collected	Adaptation
TOP-04	Identification of climate justice, energy poverty, and vulnerable household needs	Coordination	2028–2029	High	Low/Medium	Needs analysis; support mechanism proposals	Both

Priority Starter Package: 2027

1. ÖN-01 — Establishment of Municipal Climate Coordination Team
2. YÖN-04 — Annual climate implementation and investment program
3. SU-01 — Island water budget and seasonal demand model
4. SU-03 — Drought early warning and response plan
5. EN-01 — Municipal energy audit and consumption monitoring system
6. UL-01 — Island mobility and transport survey
7. AT-01 — Seasonal waste volume and composition analysis
8. YER-02 — Climate risk mapping for critical infrastructure and low-elevation areas
9. TAR-03 — Wildfire risk map and response infrastructure plan
10. TOP-01 — Heatwave procedure and vulnerable population support

Action Card Template

Action Code and Name	To be filled
Rationale and Addressed Climate Risk	To be filled
Scope and Sub-activities of Action	To be filled
Municipal Role	To be filled
Responsible Municipal Unit	To be filled
Partner Institutions and Stakeholders	To be filled
Start and End Year	To be filled
Priority and Dependencies	To be filled
Estimated Cost and Cost Level	To be filled
Financing Sources	To be filled
Baseline Value	To be filled
2030 Interim Target	To be filled
2035 Target	To be filled
Performance Indicators	To be filled
Mitigation / Adaptation Contribution	To be filled
Action Code and Name	To be filled
Rationale and Addressed Climate Risk	To be filled

Main Official Sources Examined for Methodology and Structure

- Republic of Türkiye Climate Change Directorate, Climate Change Mitigation Strategy and Action Plan (2024–2030).

T.C.
BOZCAADA MUNICIPALITY
COUNCIL DECISION

Page 10 / 12

- Republic of Türkiye Climate Change Directorate, Climate Change Adaptation Strategy and Action Plan (2024–2030).
- Republic of Türkiye Climate Change Directorate, Explanations regarding Climate Law and Local Climate Change Action Plans.
- Global Covenant of Mayors for Climate & Energy (GCoM), Common Reporting Framework and Climate Action Planning Framework.
- Muğla Metropolitan Municipality, Sustainable Energy and Climate Action Plan (2025–2050).
- Melikgazi Municipality, Sustainable Energy and Climate Change Action Plan (SECAP).
- Çankaya Municipality, Sustainable Energy and Climate Action Plan (2025).
- Bodrum Municipality, SECAP and Climate Risk/Vulnerability Studies.
- İzmir Metropolitan Municipality, Sustainable Energy and Climate Action Plan (2025–2050) and Participation Process Documents.