SARIÇAM BELEDİYESİ

2009

"Bereket Kapısı"



SARIÇAM CLIMATE ACTION PLAN 2026

SARIÇAM
CLIMATE ACTION PLAN
2026





“Tabiata Saygı, Aklın Vicdanıdır...”





Bilal ULUDAĞ
Mayor of Sarıçam

FOREWORD

Climate change is no longer solely an environmental issue; it is a process of global transformaon that directly a.ects economic development, community life, natural resources and the future of our cies. Rising temperatures, drought, extreme weather events, pressures on water resources and changes in natural ecosystems make it essenal for local authories to develop new policies guided by sustainable development principles.

With its young populaon, strong educaonal infrastructure, growing industry, agricultural producon capacity and natural resources, Sarıçam is one of the key districts shaping Adana's future. Preserving this potenal and passing it on to future generaons requires a planning approach grounded in environmental sustainability.

Accordingly, at Sarıçam Municipality, we regard climate change migaon and adaptaon as integral components of our local development policies. As we plan our district's future, ful7lling our environmental responsibilies, protecng our natural resources and improving quality of life remain among our core priories.

The Sarıçam Municipality Climate Acon Plan Workshop was organised within this framework to assess the district's current situaon in relaon to climate change, idenfy risks and opportunies, gather stakeholders' views and establish a shared vision for the future.

Throughout the workshop, public instuons, universies, private setor representaves, civil society organisaons, professional chambers, neighbourhood heads and experts came together to make valuable contribuons to Sarıçam's sustainable future. Their insights and recom mendaons formed the basis of this report and helped shape our district's roadmap for climate acon.

This report represents both an outcome of the workshop and an expression of our shared commitment and collecve responsibility for Sarıçam's future. I believe that the assessments and recommendaons presented here will guide the projects and iniaves to be implemented in the coming period.

As Sarıçam Municipality, our goal is to build an environmentally responsible and sustainable city that protects its natural resources, manages climate risks and o.ers a high quality of life. We will connue working in partnership with all our stakeholders towards this goal.

I am con7dent that, through collecve wisdom and strong collaboraon, Sarıçam will become an exemplary district in sustainability and climate acon.

Yours sincerely,

Bilal ULUDAĞ
Mayor of Sarıçam



ACKNOWLEDGEMENTS

On behalf of Sarıçam Municipality, I extend my sincere thanks to all instuons and organisaons, academics, experts, public sector representaves, civil society organisaons, private sector representaves and valued parcipants who contributed to the Sarıçam Municip ality Climate Acon Plan Workshop, organised to shape our district's sustainable future.

Climate change is one of today's most signi7cant global challenges, a.ecng not only the environment but also economic development, social well-being, water security, energy management, agricultural producon and urban life. As we plan Sarıçam's future, it is therefore essenal to adopt an approach centred on sustainability principles, grounded in scien7c data and guided by parcipaon.

Throughout the workshop, the insights and recommendaons shared by experts from di.erent disciplines, public instuons, universies, professional organisaons, private sect or representaves and our residents made signi7cant contribuons to the district's climate changemigaon and adaptaon e.orts. The collecve wisdom and culture of collaboraon that emerged established a strong foundaon for the strategic decisions that will shape Sarıçam's future.

I would like to thank all departments, unit heads and sta. of Sarıçam Municipality, parcularly **Ms Ayşegül DEĞİRMENCİ, Director of Climate Change and Zero Waste**, for their dedicaon and considerable e.orts in planning, coordinang and successfully delivering this workshop. The commitment of our organising teams enabled stakeholders to come together and achieve producve outc omes.

I also extend my special thanks to **Prof. Dr. Tuğçe DEMİRDELEN** , who undertook the scien7c coordinaon of the workshop, and to our moderators, rapporteurs and experts for their valuable contribuons. Bringing scien7c knowledge together with local needs helped establish a sound and praccal foundaon for the workshop's outcomes.

Furthermore, I express my gratude to Adana Alparslan Türkeş Science and Technology University, Çukurova University, public instuons and agencies, professional chambers, or ganised industrial zone representaves, civil society organisaons, private sector representaves, neighbou rhood heads and all stakeholders who contributed to the workshop.

I am con7dent that the Sarıçam Climate Acon Plan, prepared in line with the insights, recommendaons and shared vision emerging from this workshop, will make an important contr ibuon to our district's journey towards becoming a more resilient, liveable, environmentally re sponsible and sustainable city.

We will connue working with determinaon alongside all our stake holders to leave a stronger, healthier and more sustainable Sarıçam for future generaons.

Yours sincerely,

Bilal ULUDAĞ
Mayor of Sarıçam

PREFACE

Climate change has evolved beyond an environmental issue into a process of global transformation that directly affects economic development, urbanisation, water resources, energy security, agricultural production, public health and social well-being.

Within this context, Sarıçam Municipality organised the Sarıçam Climate Action Plan Workshop to assess the district's current situation in relation to climate change, identify risks and opportunities, and develop a strategic roadmap for the future.

During the workshop, the district's current circumstances were comprehensively analysed through ten thematic working groups involving public institutions, universities, local authorities, private sector representatives, civil society organisations and experts. Assessments covering energy, water management, transport, waste management, biodiversity, disaster management, community participation, institutional structures and finance highlighted Sarıçam's considerable potential for transformation in climate change mitigation and adaptation.

The workshop findings indicate that Sarıçam faces particular risks associated with heatwaves, drought, pressures on water resources, sudden rainfall and flooding, biodiversity loss, and carbon emissions from energy consumption. At the same time, its young population, universities, organised industrial zones, agricultural potential and capacity for institutional collaboration offer significant opportunities.

The priority areas for action identified during the workshop are summarised below.

Water Management and Drought Response

Strengthening water security was identified as a priority in view of increasing drought risks. Recommendations included reducing water losses and leakage, expanding rainwater harvesting, developing alternative water sources and increasing water efficiency efforts.

Energy Efficiency and Renewable Energy

Recommendations include improving energy efficiency in municipal services, expanding solar energy systems, establishing energy management systems and developing measures to reduce carbon emissions.

Sustainable Transport

Strengthening public transport systems, expanding cycling infrastructure, developing electric mobility infrastructure and implementing low-carbon transport policies are among the priority objectives.

Circular Economy and Zero Waste

Recommendations include generating economic value from waste, increasing recycling rates, recovering organic waste and expanding circular economy practices.

Green Infrastructure and Biodiversity

The assessments highlighted the need to strengthen efforts to develop urban forests, green corridors and carbon sinks, and to conserve biodiversity.



Community Participation and a Just Transition

The importance of ensuring the active participation of young people, women, civil society organisations and residents in climate action was emphasised. Recommendations also included developing just transition policies that address energy poverty and social vulnerabilities.

Institutional Structures and Data Management

Recommendations included establishing a Climate Change and Sustainability Unit within the Municipality, forming a District Climate Advisory Board, developing digital data management systems and establishing regular reporting mechanisms.

Sarıçam's 2030 Vision

By 2030, Sarıçam aims to become a district that:

- Manages climate risks;
- Uses water resources more efficiently;
- Has expanded energy efficiency practices;
- Has begun reducing its carbon emissions;
- Has strengthened community awareness;
- Has established mechanisms for data-informed decision-making.

Sarıçam's 2050 Vision

In line with the shared vision emerging from the workshop, Sarıçam's objective for 2050 is defined as follows:

"To become an exemplary sustainable city that is carbon-neutral, climate-resilient and water-secure; protects its natural resources; makes widespread use of renewable energy; has strong green infrastructure; embraces circular economy principles; and enables broad community participation."

Seven strategic areas of transformation have been identified to support this vision:

- A carbon-neutral municipality;
- A water-secure Sarıçam;
- A circular economy city;
- A city with strong green infrastructure;
- A climate-resilient transport system;
- An ecosystem of university–industry–municipality collaboration;
- A participatory and resilient community.

Conclusion

The Sarıçam Municipality Climate Action Plan Workshop has been an important participatory planning process that will help shape the district's sustainable future. The insights and recommendations presented throughout the workshop demonstrate that Sarıçam can develop a model of transformation that addresses the impacts of climate change while improving quality of life, supporting economic development and strengthening environmental sustainability.



If the recommendations presented in this report are implemented through collaboration among the relevant institutions, stakeholders and all sections of society, Sarıçam has the potential to become an exemplary local authority in Türkiye in climate change mitigation and adaptation.

“Sarıçam’s sustainable future will be shaped by scientific knowledge, collective wisdom, strong collaboration and determined implementation.”

Bilal ULUDAĞ
Mayor of Sarıçam




Sarıçam
İKLİM
EYLEM PLANI
ÇALIŞTAYI

1. INTRODUCTION

Photo caption: Opening Session of the Sarıçam Climate Action Plan Workshop, 20 May 2026

1.1. Climate Change and the Role of Local Authorities

Climate change is recognised as one of the most significant environmental, economic and social challenges facing humanity today. Rising global average temperatures resulting from increased atmospheric greenhouse gas concentrations bring a range of adverse impacts, including drought, flooding, extreme heat events, forest fires, sea level rise and biodiversity loss. These impacts directly affect not only natural ecosystems but also cities, infrastructure systems, economic activities and communities' quality of life.

International initiatives such as the United Nations Framework Convention on Climate Change, the Paris Agreement and the Sustainable Development Goals highlight the importance of global cooperation in addressing climate change. However, as climate impacts are often experienced locally, the role of local authorities in developing and implementing solutions is becoming increasingly important.

Local authorities have direct powers and responsibilities in numerous areas, including energy consumption, transport systems, water and waste management, urban planning, green spaces and disaster management. They are therefore regarded as critical actors in reducing greenhouse gas emissions and adapting to climate change.

Today, many cities and municipalities are setting carbon neutrality targets, preparing climate action plans and developing sustainable urbanisation policies. These local initiatives contribute to global climate goals while also improving urban quality of life.

Within this framework, Sarıçam Municipality has initiated a stakeholder-based Climate Action Plan preparation process to strengthen its climate change mitigation and adaptation efforts.

1.2. The Importance of Climate Action Plans

As the impacts of climate change become increasingly evident, local authorities must adopt long-term, integrated planning approaches. Climate Action Plans developed for this purpose are strategic roadmaps designed to reduce greenhouse gas emissions and support adaptation to climate change.

Climate Action Plans extend beyond environmental objectives to encompass economic development, energy security, resource efficiency, public health, social resilience and quality of life. They are therefore considered key instruments for sustainable development.

Local climate action plans enable municipalities to:

- Identify emission sources;
- Assess climate risks;
- Define priority areas for action;
- Access funding sources;
- Strengthen institutional capacity;
- Raise public awareness;
- Establish long-term sustainability goals.



Climate action plans also help local authorities align their activities with national climate policies and international climate goals. Through these plans, cities can manage climate risks while also pursuing opportunities for green growth and sustainable development.

Sarıçam Municipality's Climate Action Plan efforts likewise aim to strengthen the district's resilience to climate change, reduce carbon emissions and establish a vision for a sustainable future.

1.3. General Profile of Sarıçam District

Covering approximately **770 km²**, Sarıçam has a population of **263,080**, according to data from the Turkish Statistical Institute. Located along Adana's northern urban development corridor, the district has experienced significant growth in recent years, driven by the expansion of residential areas, educational institutions, industrial investments and transport infrastructure.

Sarıçam is also one of Adana's centres for knowledge production, technological development and skilled human capital. Adana Alparslan Türkeş Science and Technology University and Çukurova University, both located within the district, are important regional institutions not only for education but also for research, innovation, technological development and sustainable development.

The proximity of industrial and manufacturing areas, particularly the Hacı Sabancı Organised Industrial Zone, is another important factor strengthening Sarıçam's capacity for economic development. The coexistence of agriculture, industry, services and education gives the district a diversified economic character.

From a climate change perspective, Sarıçam's natural resources, water infrastructure, agricultural land, green spaces and demographic characteristics expose the district to various risks while also offering significant opportunities for sustainable transformation. It is therefore essential to integrate climate change considerations into the district's future development plans.

1.3.1. Geographical Characteristics

Sarıçam is located in the northern part of Adana Province, in the eastern Mediterranean Region of Türkiye. The district borders Karaisalı to the north, Ceyhan and Kozan to the east, and Çukurova and Seyhan to the west. Its geographical location gives it a combination of rural and urban characteristics.

With an area of approximately **770 km²**, Sarıçam is one of Adana's largest districts by land area. Agricultural land, forests, residential areas and water resources within its boundaries support a diverse range of land uses.

The district has a Mediterranean climate, characterised by hot, dry summers and mild, rainy winters. In recent years, however, increases in heatwaves, irregular rainfall patterns and heightened drought risks associated with climate change have been observed.

One of Sarıçam's most important natural resources is Çatalan Dam and its associated water supply infrastructure. This system meets a substantial share of Adana's drinking and domestic water needs, giving the district strategic importance for water security.

The natural areas, green spaces and rural landscapes within the district also hold significant biodiversity value. These areas function as carbon sinks that contribute to climate change mitigation and provide ecosystem services.

Sarıçam's geographical characteristics create both vulnerabilities to climate change impacts and significant opportunities for adaptation. Protecting natural resources and developing sustainable land-use policies are therefore essential to the district's future.

1.3.2. Demographic Characteristics

According to data from the Turkish Statistical Institute, Sarıçam has a population of **263,080**. The district's population has grown steadily in recent years alongside rapid urbanisation and the development of new residential areas.

Sarıçam stands out as one of Adana's districts with a young and dynamic population. Its universities, educational institutions and new residential areas contribute to the concentration of young people in the district. This is considered an important advantage for climate action and sustainability initiatives.

Population growth also increases environmental pressures, including energy consumption, transport demand, water use and waste generation. Future population projections must therefore be taken into account in climate action planning.

The district has a diverse social structure encompassing different age groups, rural and urban communities, educational backgrounds and economic activities. This diversity requires inclusive and participatory approaches to the design of climate policies.

In particular, the large proportion of young people offers a significant opportunity to expand climate awareness, volunteering and sustainable living practices. Ensuring the active participation of women, young people and local communities in climate policies is also an important factor in strengthening the district's capacity for transformation.

1.3.3. Economic Structure

With its industrial infrastructure, agricultural production capacity, higher education institutions and growing service sector, Sarıçam is one of Adana's most economically dynamic districts. Its economy is diversified, combining industry, agriculture, trade, education and services.

One of the most important drivers of the district's economic development is the contribution of the **Adana Hacı Sabancı Organised Industrial Zone (AOSB)** to the regional economy. As one of Türkiye's largest organised industrial zones, AOSB hosts businesses operating in textiles, food, chemicals, metals, plastics, energy and various manufacturing sectors. Production activities within the organised industrial zone generate employment and make substantial contributions to regional development.

Alongside industry, agriculture plays an important role in Sarıçam's economy. Agricultural land within the district supports the production of citrus fruit, maize, wheat, vegetables and various field crops. The fertile soils and favourable climatic conditions of the Çukurova Basin provide significant advantages for agricultural production. However, rising temperatures, drought risks and pressures on water resources associated with climate change require careful consideration when assessing the future of agriculture.

Sarıçam is also a growing centre for education and the knowledge economy. Adana Alparslan Türkeş Science and Technology University and Çukurova University contribute to the regional economy through education, research and development, technological development, entrepreneurship and the training of a skilled workforce. The presence of these universities offers significant opportunities for knowledge-based development and the green transition.

Photo captions: Alparslan Türkeş Science and Technology University; Çukurova University

The service sector accounts for an increasing share of the district's economy. Businesses and institutions operating in trade, logistics, healthcare, education and public services contribute to its economic diversity. In particular, its location along Adana's northern development corridor is making Sarıçam an important destination for new investment.

From a climate change perspective, it is essential to develop the district's economy in line with the principles of energy efficiency, green transformation, sustainable production, resource efficiency and low-carbon development. This transition will both enhance economic competitiveness and contribute to a local economy that is more resilient to climate change.

1.3.4. Natural Resources and Ecosystems

Sarıçam possesses significant natural capital in the form of water resources, agricultural land, natural habitats and green spaces. These resources are strategically important not only for the environment but also for economic development, public health, food security and climate change adaptation.

One of the district's most important natural resources is Çatalan Dam. Supplying a large proportion of Adana's drinking and domestic water needs, the dam is critical to regional water security. It also serves important functions in agricultural irrigation and the provision of ecosystem services. However, changes in rainfall patterns and drought risks associated with climate change make sustainable water resource management increasingly important.

Sarıçam's agricultural land forms part of the district's natural and economic assets. Encompassing part of the fertile Çukurova plain, the district has significant agricultural production potential. Protecting this land and expanding sustainable agricultural practices are critical to both food security and climate change adaptation.

Forests, green spaces and natural habitats within the district contribute to biodiversity conservation. These areas also function as carbon sinks, helping to counterbalance greenhouse gas emissions. Protecting natural areas and strengthening green infrastructure are particularly important in locations facing increasing urbanisation pressures.

Ecosystem services, including water regulation, carbon storage, improved air quality, erosion prevention and recreation, are of considerable value to the district's sustainable development. Protecting natural resources and adopting ecosystem-based management are therefore among the core strategies for addressing climate change.

Sarıçam's natural capital also plays an important role in strengthening its adaptive capacity. Expanding green spaces, establishing ecological corridors, conserving biodiversity and enhancing carbon sinks can increase the district's climate resilience.

Accordingly, the sustainable use of natural resources, ecosystem conservation and the wider adoption of nature-based solutions are considered fundamental components of Sarıçam's future development policies.

1.4. Activities of Sarıçam Municipality's Directorate of Climate Change and Zero Waste

Discussions with licensed companies are ongoing regarding the collection, separation and transport of recyclable packaging waste at source and its delivery to licensed recycling facilities.

The breakdown of the total **37,700 kg of packaging waste** by material type was calculated using the national packaging waste composition ratios published by the Ministry of Environment, Urbanisation and Climate Change. Packaging waste quantities were obtained from weighbridge tickets provided by scrap dealers.

The quantities of packaging waste collected by year are presented below.

Packaging Waste Collected by Year (kg)

Waste Type	2020	2021	2022	2023
Paper	505,530	227,500	144,200	301,700
Plastic	447,755	201,500	127,720	267,220
Glass	361,093	162,500	103,000	215,500
Metal	129,994	58,500	37,080	77,580
Total	1,444,372	650,000	412,000	862,000

Sarıçam Municipality has undertaken the following activities to protect nature and the environment.

Textile Waste Collection

Following a new protocol signed in March 2025, the textile waste collection programme continues to be implemented by the Directorate of Climate Change and Zero Waste. Residents can deposit unwanted or worn-out textiles and footwear in textile collection banks installed at **150 locations** across the district.

The quantities collected under the programme are presented below.

Textile Waste Collected (kg)	2022	2023	2024	2025
Total	26,245	43,370	28,920	23,260

First-Class Waste Collection Centre and Mobile Waste Collection Centres

Under the provisions of the Communiqué on Waste Collection Centres, published in Official Gazette No. 29222 on 31 December 2014, district municipalities within metropolitan areas are required to establish a first-class waste collection centre.

The building at the Suluca municipal works site is being renovated to establish a first-class waste collection centre in accordance with the technical specifications set out in the Communiqué. The work is ongoing and is scheduled for completion within the year.

There are currently **19 mobile waste collection centres** in densely populated central neighbourhoods. In addition, **150 recycling containers** have been installed in central neighbourhoods as part of the dual collection system.

Waste Medicine Collection

Under the programme initially implemented by the Directorate of Cleaning Services in accordance with the Zero Waste Regulation, waste medicine collection boxes were installed in **44 pharmacies**.

Since September 2023, the programme has been managed by the Directorate of Climate Change and Zero Waste. A total of **540 kg of expired or unused medicines** has been collected for transfer to a licensed company for appropriate disposal.

Waste Battery Collection

As part of the programme implemented by the Directorate of Climate Change and Zero Waste, **131 waste battery collection boxes** were provided to schools in response to complaints and requests.

A total of **255 kg** of waste batteries was collected in 2024, and **475 kg** was collected from schools and residents in 2025.

Waste Batteries Collected (kg)	2022	2023	2024	2025
Total	1,011	153	255	475

Waste Battery Collection Campaign

A waste battery collection campaign was organised for preschools, primary schools, lower secondary schools and upper secondary schools within Sarıçam Municipality's boundaries. The campaign aims to establish lasting battery collection habits through regularly organised annual activities.

The three highest-performing schools received prizes within the Municipality's available resources.

Zero Waste Basketball Hoop Initiative

As part of Sarıçam Municipality's climate-friendly municipal initiatives, special recycling bins designed as basketball hoops have been introduced to encourage waste separation at source, particularly in schools. These bins are used to collect recyclable materials such as plastic and paper, supporting the district's transition towards a more sustainable future.

The zero waste basketball hoops developed under this good practice initiative were awarded, within the Municipality's available resources, to schools achieving high rankings in the annual waste battery collection competition. The initiative aims to help children develop recycling habits through gamification.

By ensuring that recyclable materials enter the recycling stream rather than being mixed with general waste, the initiative seeks to prevent environmental harm and promote wider adoption as part of the Zero Waste Project.

Inspections of Businesses for the Control and Management of Waste Vegetable Oils

Under the programme launched in March 2025, the Directorate of Climate Change and Zero Waste visited **76 businesses** generating waste vegetable oils, including restaurants, eateries and cafés, to provide information and raise awareness.



Under the Regulation on the Control of Air Pollution from Heating, and pursuant to the authority delegated to the Municipality, businesses selling solid fuels, including coal, are inspected annually before the winter season.

Zero Waste Information System

Sarıçam Municipality uses the Integrated Environmental Information System of the Ministry of Environment and Urbanisation. On **25 January 2019**, it also registered with the Zero Waste Information System, which operates within the integrated system.

Information is entered into the system on training delivered at regular intervals and on all equipment installed for different waste streams, including collection banks, containers, mobile waste collection centres and waste collection centres.

Climate Change Activities

A greenhouse gas inventory was prepared, a verification statement was obtained from the Turkish Standards Institution (TSE), and a workshop was held. Related training was also provided to municipal staff.

- ISO 14064 greenhouse gas verification statements were obtained for **2023, 2024 and 2025**.
- ISO 14046 water footprint verification statements were obtained for **2024 and 2025**.

Training Activities

In 2023, **600 staff members** received green skills training to raise awareness. Greenhouse gas accounting and climate-friendly municipal initiatives were also undertaken that year.

In 2025, **161 staff members** received training on climate action, waste collection and hygiene.

Water Management and Energy Management Units were established. Training was provided to senior management and relevant personnel, including the Mayor, municipal council members, unit heads, the data entry team and staff.

As part of the Directorate of Climate Change and Zero Waste's activities, a decision was made to develop the Sarıçam Climate Action Plan, recognising its importance for the district's future.

1.5. Purpose of the Workshop

The primary purpose of the Climate Action Plan preparation process undertaken by Sarıçam Municipality is to assess the district's current situation in relation to climate change, identify priority risks and opportunities, develop strategies to reduce greenhouse gas emissions, and establish a roadmap to strengthen its capacity to adapt to climate change impacts.

The workshop was designed both as a technical assessment process and as a platform for collective deliberation grounded in participatory governance. It sought to gather the views and recommendations of public institutions, universities, private sector representatives, civil society organisations, professional chambers and other stakeholders.

The workshop's main objectives were defined as follows:

- Identify current and future climate-related risks in Sarıçam;
- Assess the district's vulnerability to climate change;

- Identify greenhouse gas emission sources and opportunities for mitigation;
- Develop strategies to strengthen climate change adaptation capacity;
- Formulate policy recommendations in priority areas such as energy, water, transport, waste management, agriculture, biodiversity and disaster management;
- Ensure the active participation of local stakeholders in the process;
- Bring scientific knowledge together with local experience;
- Establish Sarıçam's climate vision for 2030 and 2050;
- Develop a roadmap towards a carbon-neutral and climate-resilient city.

The workshop outcomes were intended to contribute to an assessment of current conditions while also serving as a strategic guide for Sarıçam Municipality's future climate policies.

1.6. Scope of the Workshop

The Sarıçam Municipality Climate Action Plan Workshop was designed to assess the district's climate change mitigation and adaptation capacity through an integrated approach. Environmental, economic, social and institutional dimensions were considered together, and comprehensive assessments were undertaken with attention to the relationships between different sectors.

A total of ten thematic working groups were established, each focusing on a specific topic. Assessments covered the following areas:

- Climate change risks and vulnerability analysis;
- Water management and drought response;
- Energy efficiency, renewable energy and carbon management;
- Sustainable transport and urban mobility;
- Waste management and the circular economy;
- Agriculture, biodiversity and green spaces;
- Disaster management and climate adaptation capacity;
- Community participation, awareness and a just transition;
- Institutional structures and strategic objectives;
- Data management, monitoring and finance.

Throughout the workshop, moderators and rapporteurs supported each thematic working group in assessing current conditions, identifying problems and developing proposed solutions. Short-, medium- and long-term objectives and performance indicators were also established.

The process was designed to encompass both municipal service areas and all stakeholders influencing the district's overall sustainability performance. In this way, it sought to ensure that Sarıçam's future climate policies would be grounded in participation and scientific knowledge.

1.7. Workshop Methodology

The Sarıçam Municipality Climate Action Plan Workshop was conducted using an approach grounded in participatory planning and collective wisdom. The process drew on the knowledge and experience of experts from different disciplines, public institutions, universities, private sector representatives, civil society organisations and local stakeholders.

The process began with a review of baseline data on the district's current conditions, national policy documents, climate change reports, academic studies and local knowledge. Thematic working groups were then established, and structured discussions were held under each topic.

Each working group followed the methodology outlined below.

Stage 1 Assessment of Current Conditions

Current conditions in the relevant thematic area were assessed, and strengths and areas for improvement were identified.

Stage 2 Risk and Problem Analysis

The impacts of climate change on the relevant thematic area were assessed, and priority risks and vulnerabilities were identified.

Stage 3 Development of Solutions and Policies

Participants developed proposed solutions and discussed feasible policy options.

Stage 4 Prioritisation

Proposed actions were prioritised according to their environmental impact, feasibility, cost-effectiveness and social benefits.

Stage 5 Roadmap Development

Short-term (2030), medium-term (2040) and long-term (2050) objectives were defined, and performance indicators were established.

This methodology aimed both to identify existing problems and to develop practical, measurable solutions.

1.8. Stakeholder Engagement Process

The success of climate change mitigation and adaptation efforts is directly linked to the effective participation of different stakeholders. Accordingly, a participatory governance approach was adopted throughout the Sarıçam Municipality Climate Action Plan Workshop, and a multi-stakeholder structure was established.

The following stakeholders actively contributed to the workshop:

- Sarıçam Municipality's senior management and staff;
- Adana Alparslan Türkeş Science and Technology University;
- Çukurova University;
- Sarıçam Municipal Council members and neighbourhood heads;
- Public institutions and agencies;
- Professional chambers;
- Organised industrial zone representatives;
- Civil society organisations;
- Private sector representatives;
- Experts and academics.

Care was taken to include representatives from different sectors in each working group, ensuring that diverse perspectives were considered. As a result, the workshop outcomes reflected technical assessments alongside local knowledge, practical experience and implementation perspectives.

Participants' views were documented by moderators and rapporteurs, and priority action areas were identified through collective assessment. This process sought to ensure that the resulting report would serve both as an institutional document and as a roadmap reflecting the shared views of the district's stakeholders.

Stakeholder engagement is also regarded as a fundamental governance principle for Sarıçam Municipality's future climate policies. Accordingly, it is recommended that the culture of collaboration established during the workshop be sustained and that all stakeholders play an active role in implementing the Climate Action Plan.













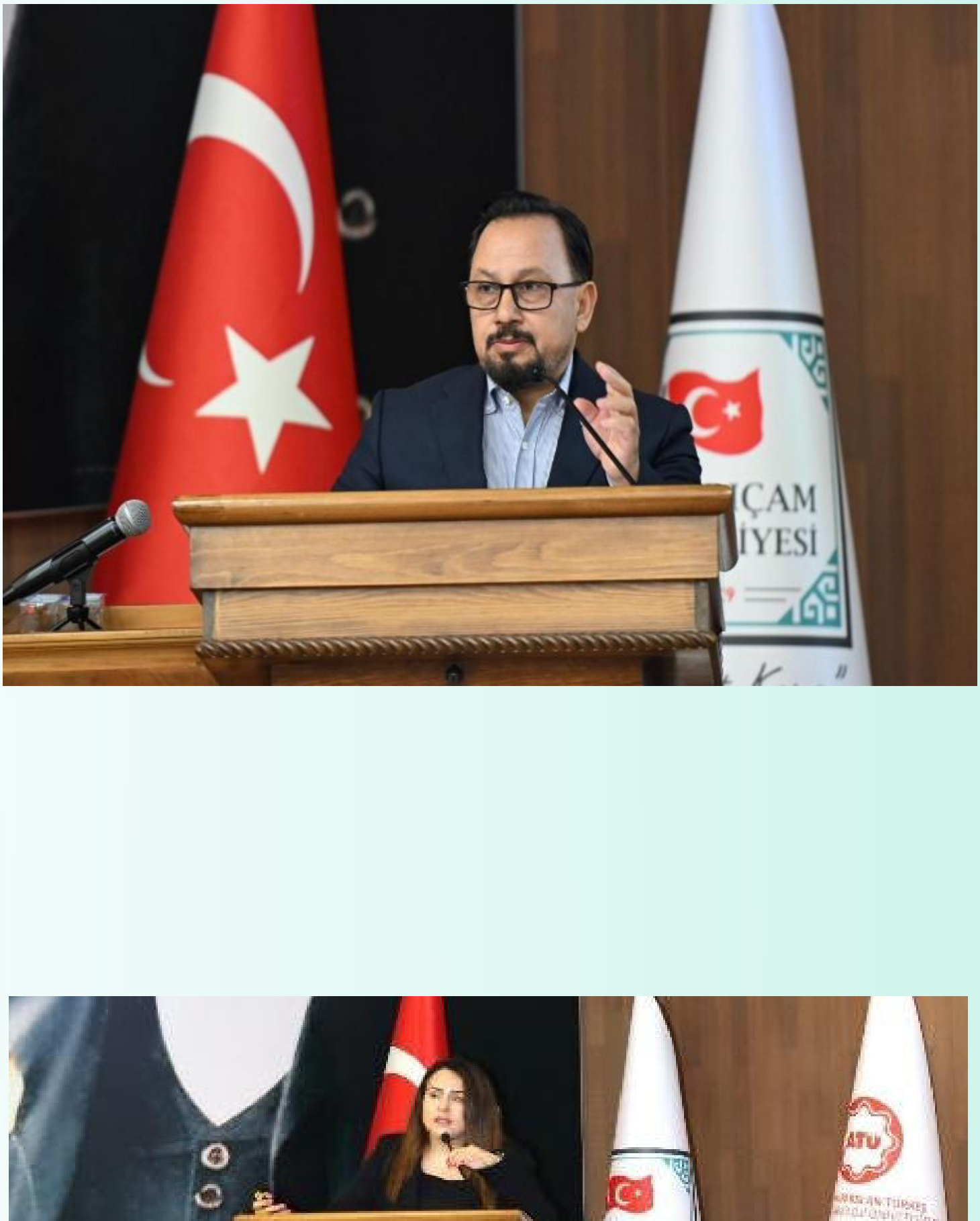







T.C. SARIÇAM BELEDİYESİ
FERDİ TAYFUR
SANAT MERKEZİ VE MÜZESİ




İÇAM
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SARIÇAM
BELEDİYESİ


ATÜ
ALPARSLAN TÜRKEŞ
TEKNOLOJİ ÜNİVERSİTESİ




RIÇAM



Water Footprint Inventory and Water Scarcity Impact Assessment Verification Statement

Su Ayak İzi Envanteri ve Su Kıtlığı Etki Değerlendirmesi Doğrulama Beyanı

SARIÇAM BELEDİYESİ

Organizational Boundaries / Organizasyonel Sınırlar

Annex I / *Ek I*

The Water Footprint Inventory and Water Scarcity Impact Assessment Report has been verified to meet the standard requirements specified below / *Su Ayak İzi Envanteri ve Su Kıtlığı Etki Değerlendirmesi Raporunun, aşağıda belirtilen standart gerekliliklerini karşıladığı doğrulanmıştır.*

ISO 14046:2014

Ground Water Use / *Yeraltı Suyu Kullanımı*	-	m^3
Surface Water Use / *Yüzey Suyu Kullanımı*	86.145,33	m^3
Rainwater use / *Yağmur Suyu Kullanımı*	-	m^3
Pollution Dilution Requirement / *Kirlilik Seyreltme Gereksinimi*	74.435,45	m^3
Reporting Unit / Raporlama Birimi		m^3/yıl
Results by Reporting Unit / *Raporlama Birimine Göre Sonuç*	86.145,33	m^3/yıl
Water Scarcity Impact / *Su Kıtlığı Etkisi*	249.821,457	m^3-eq

Level of Assurance *Güven Seviyesi*	:	Reasonable / *Makul*	Verification Report Date / Ver *Doğrulama Rapor Tarihi / Version*	:	29.06.2026 / 00
Reporting Period *Raporlama Dönemi*	:	01.01. 2025 – 31.12. 2025	Statement No *Beyan Numarası*	:	WP-GNL-538 / 2025

Approved by / Onaylayan
Okay Kayhanlı – Genel Müdür

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Greenhouse Gas Verification Statement

Sera Gazı Doğrulama Beyanı

SARIÇAM BELEDİYESİ

Organizational Boundaries / Organizasyonel Sınırlar

Annex I / *Ek I*

The Greenhouse Gas emissions inventory has been verified to meet the standard requirements specified below according to ISO 14064-3:2019 / *Sera Gazı emisyonları envanterinin, ISO 14064-3:2019'a göre aşağıda belirtilen standart gerekliliklerini karşıladığı doğrulanmıştır.*

ISO 14064-1:2018

Category 1- Direct emissions / *Doğrudan emisyonlar*	2.179,51	t CO_2 eq
Category 2- Purchased energy emissions (Location based) / *Satın alınan enerji em isyonlar (Lokasyon bazlı)*	550,18	t CO_2 eq
Category 3- Emissions from transportation / *Ulaşım kaynaklı emisyonlar*	2,98	t CO_2 eq
Category 4- Emissions from products, service used / *Kullanılan ürün - hizmet kaynaklı emisyonlar*	3.118,47	t CO_2 eq
Category 5- Emissions from associated with the use of the product / *Ürün kullanımı kaynaklı em.*	-	t CO_2 eq
Category 6- Other Emissions / *Diğer emisyonlar*	-	t CO_2 eq
Total Location Based Emissions / *Toplam Lokasyon Bazlı Emisyonlar*	**5.851,15**	**t CO_2 eq**
Total Market Based Emissions / *Toplam Market Bazlı Emisyonlar*	**-**	**t CO_2 eq**
Biogenic Emissions / *Biyojenik Emisyonlar*	-	t CO_2 eq
Purchased renewable energy emission allowance / *Satın alınan yenilenebilir enerji emisyon karşılığı*	-	t CO_2 eq
Category 2- Purchased energy emissions (Market based) / *Satın alınan enerji emisyonlar (Market bazlı)*		t CO_2 eq
Renewable energy references / *Yenilenebilir enerji referansları:*		
Credits from GHG Scheme / Satın alınan krediler	-	t CO_2 eq
Credits references / Kredi referansları		

Level of Assurance *Güven Seviyesi*	:	Reasonable / Makul	Verification Report Date *Doğrulama Rapor Tarihi*	:	29.06.2026
Reporting Period *Raporlama Periyodu*	:	01.01. 2025 – 31.12. 2025	Statement No *Beyan Numarası*	:	SG-GNL-538 / 2025

Approved by / Onaylayan
Okay Kayhanlı – Genel Müdür

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SIFIR ATIK MÜDÜRLÜĞÜ



"Bereket Kapısı"

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