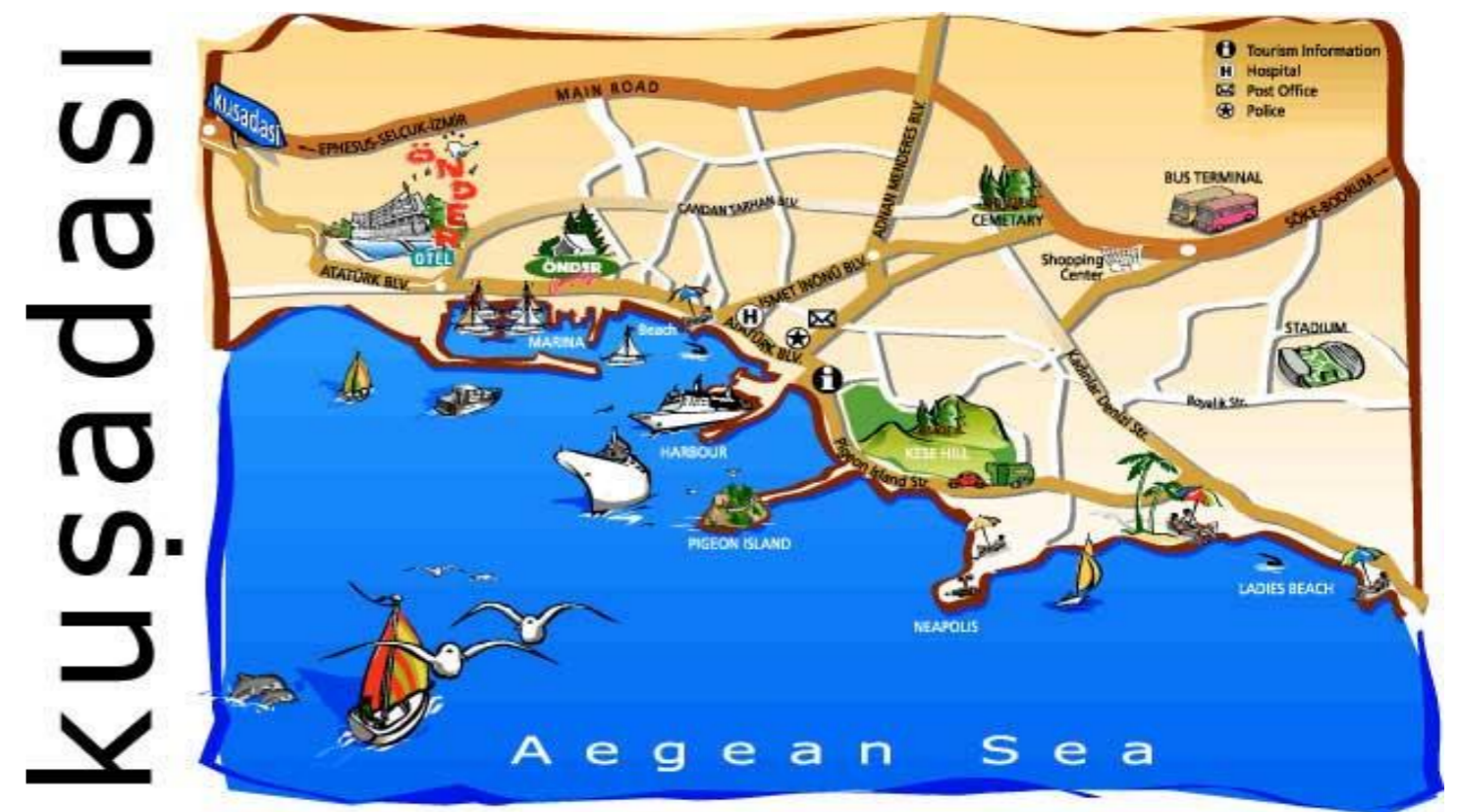
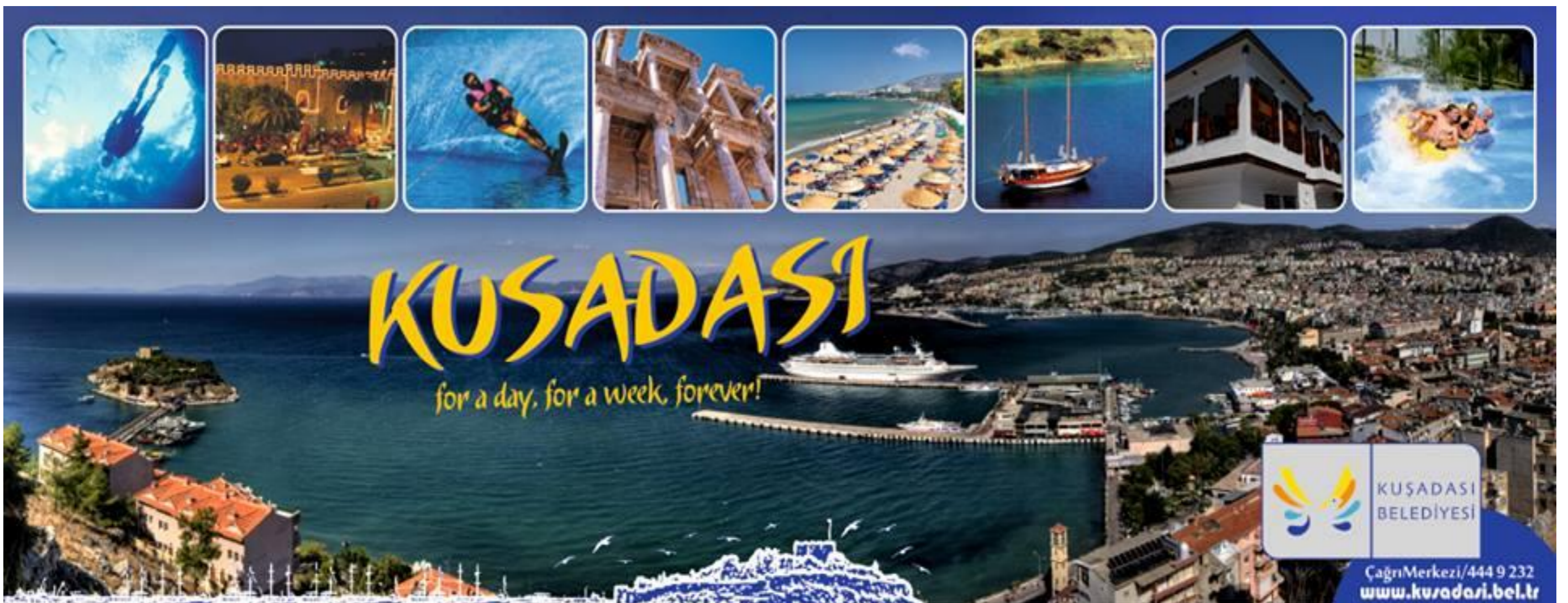




KUŞADASI REGIONAL SOLID WASTE MANAGEMENT SYSTEM

Kuşadası is a county of Turkey's Aydın province. The county located in the north west of the province is 71 km away from Aydın city center and 95 km away from İzmir city center. Our county, located at the coast of Aegean Sea, is an important tourism center with developed cruise tourism and internationally-scale yacht harbor which is an important maritime entrance gate of Turkey.

The county's area is 286 kilometers. The total population of our 23 districts is 106,939 according to the results of 2016.





KUŞADASI REGIONAL SOLID WASTE MANAGEMENT SYSTEM



GENERAL PURPOSES OF THE PROJECT

The overall objective of the project is to speed up the process of EU accession to the EU, ensuring that Turkey complies with the EU Directives on waste.

The aims of the Project are to bring a sustainable and integrated solution of the existing wild landfill in order to minimise the negative impacts it has on human life and environment for the Union members. In addition to this it is also to increase re-use and recycling percentages together with reducing the underwater pollution in Kuşadası environment and neighboring municipalities.

The Ministry regulations which form the basis of the Project are; Solid Waste Control, Packaging and Solid Ware Packaging Regulations respectively with EU Directives as Sanitary Landfill Directives and Packaging Waste Directives.

STAKEHOLDERS

🦋 Project Financing: 68,1% EU Grant- 31,9 Local Contribution

🦋 Project area includes Kuşadası, Söke, Davutlar, Güzelçamlı and six other villages

🦋 Projecting and feasibility studies were completed by ENVEST Planners Consortium consisting of eight domestic and foreign companies.



National Level Stakeholders



Ministry of Environment and Forestry

: Responsible for Project coordination



European Commission Turkey Delegation : Pre controls and approves during contract implementation



European Union General Secretariat

: Responsible for monitoring and evaluation process



Central Finance and Contracts Unit

: The tender authority. Responsible for all Project scope



İller Bank

: Providing local contributions on behalf of the municipalities



State Planning Organization

: To place in Investment plans

Local Level Stakeholders:



Kuş-Atak Municipalities Union (Main Beneficiary Organisation): Kuşadası, Söke, Davutlar, Güzelçamlı Municipalities.





KUŞADASI REGIONAL SOLID WASTE MANAGEMENT SYSTEM



SANITARY LANDFILL FACILITIES LANDFILL

Operation Commencement Date: 2009

General Project Datas

Solid Waste Landfill
The landfill has three cells.
1. Cell 355.000 m³
2. Cell 403.000 m³
3. Cell 802.000 m³
Total : 1.560.000 m³
14.12.2009-Commencement of 1st
Cell waste use.

Project Duration	20 Years	
Population	2005 Population 184.800	2025 Population 238.500
Total Solid Waste Production	2005 year 2005 Total Solid Waste Production 77.200 Ton/Year	2025 Total Solid Waste Production 151.500 Ton/Year



KUŞADASI REGIONAL SOLID WASTE MANAGEMENT SYSTEM

LANDFILL EQUIPMENTS

- 1 Unit Compactor (28 Ton)
- 1 Unit Bulldozer
- 2 Unit Wheel Loaders
- 2 Unit Dumper Trucks
- 2 Unit Pickups
- 2 Unit Tractors
- 1 Unit Workshop Equipment Package
- 1 Unit High Pressure Cleaner
- 1 Unit Fuel Tank
- 1 Unit Water Tank
- 2 Unit Grinder Choppers (15 m3/sa)
- 1 Unit Cylinder Screen (20 m3/sa)
- 1 Unit Bulk Aerator (100 m3/sa)



KUŞADASI REGIONAL SOLID WASTE MANAGEMENT SYSTEM



TRANSPORTATION VEHICLES COLLECTION EQUIPMENTS

- 11 Units of 7m3 hid. Compressed Garbage Truck
- 18 Units of 13m3 hid. Compressed Garbage Truck
- 15 Units of 20m3 hid. Compressed Garbage Truck
- 1 Crane Truck
- 1678 Units of 400 L Waste Containers
- 997 Units of 800 L Waste Containers
- 184 Units of Recycle Containers
- 16 Units of 20m3 Open Containers
- 24 Units of 20m3 Closed Containers



KUŞADASI REGIONAL SOLID WASTE MANAGEMENT SYSTEM

RECYCLING CENTER OF KUŞADASI, DAVUTLAR, GÜZELÇAMLI

One recycling center has been constructed within easy access and central point of each municipality.

In Recycling Center:

Large Volume Papers

Glass

Metal

Plastic Packaging Waste

Electrical and Electronic Goods

Small Amounts of Construction Waste
and Debris

Park and Garden Waste

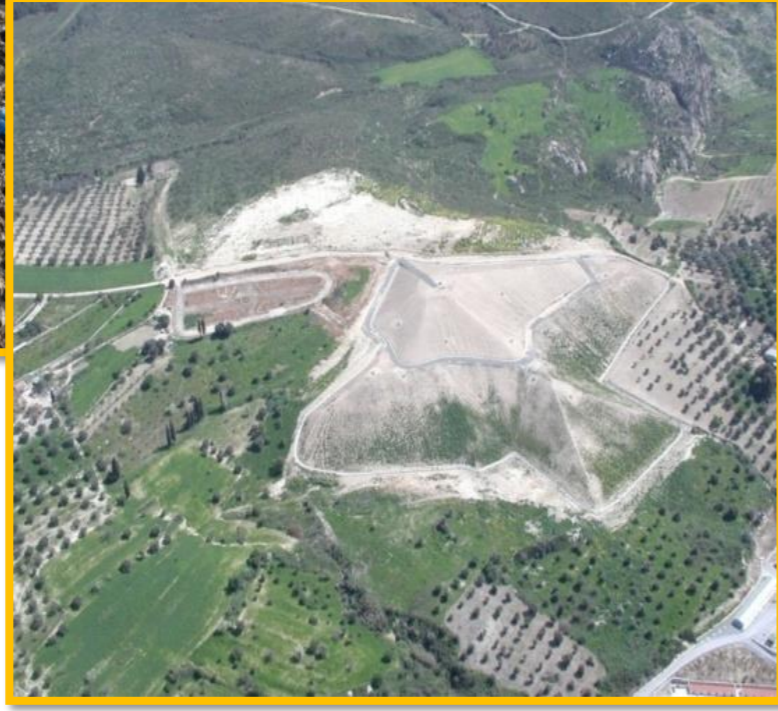
Hazardous Wastes

Furniture



KUŞADASI REGIONAL SOLID WASTE MANAGEMENT SYSTEM

THE CONTRACT OF THE EXİSTİNG DUMPS REHABİLİTATION



INTEGRATED SOLID WASTE MANAGEMENT SYSTEMS



In order to minimise the environmental impacts of these projects and ensure sustainability; important studies and research on ongoing Technologies to make more use of organic wastes under Integrated solid waste management system is still ongoing in our country.

The most important of these for our region are; biogas, compost and electricity generating Technologies.

The emerging heat energy can be used in agriculture and tourism sector.

Works are being carried out in order to establish and operate necessary hygienization, composting , enrichment and pelleting facilities for solid fraction compost and organic fertilizer production

ENVIRONMENTAL, AGRICULTURAL AND ECONOMICAL BENEFITS

Collection of separated household wastes

Prevention of emission of harmful gasses (co₂, Methane etc.)

Prevention of plant cover and soil pollution

Prevention of surface and ground waters by preventing water leakage.

Reducing waste amounts directed to the landfill

Prevention of uncontrolled fires and explosions in the landfill area.

Prevention of unwanted smells

Prevention of contagious diseases and pests

Regaining organic and inorganic wastes

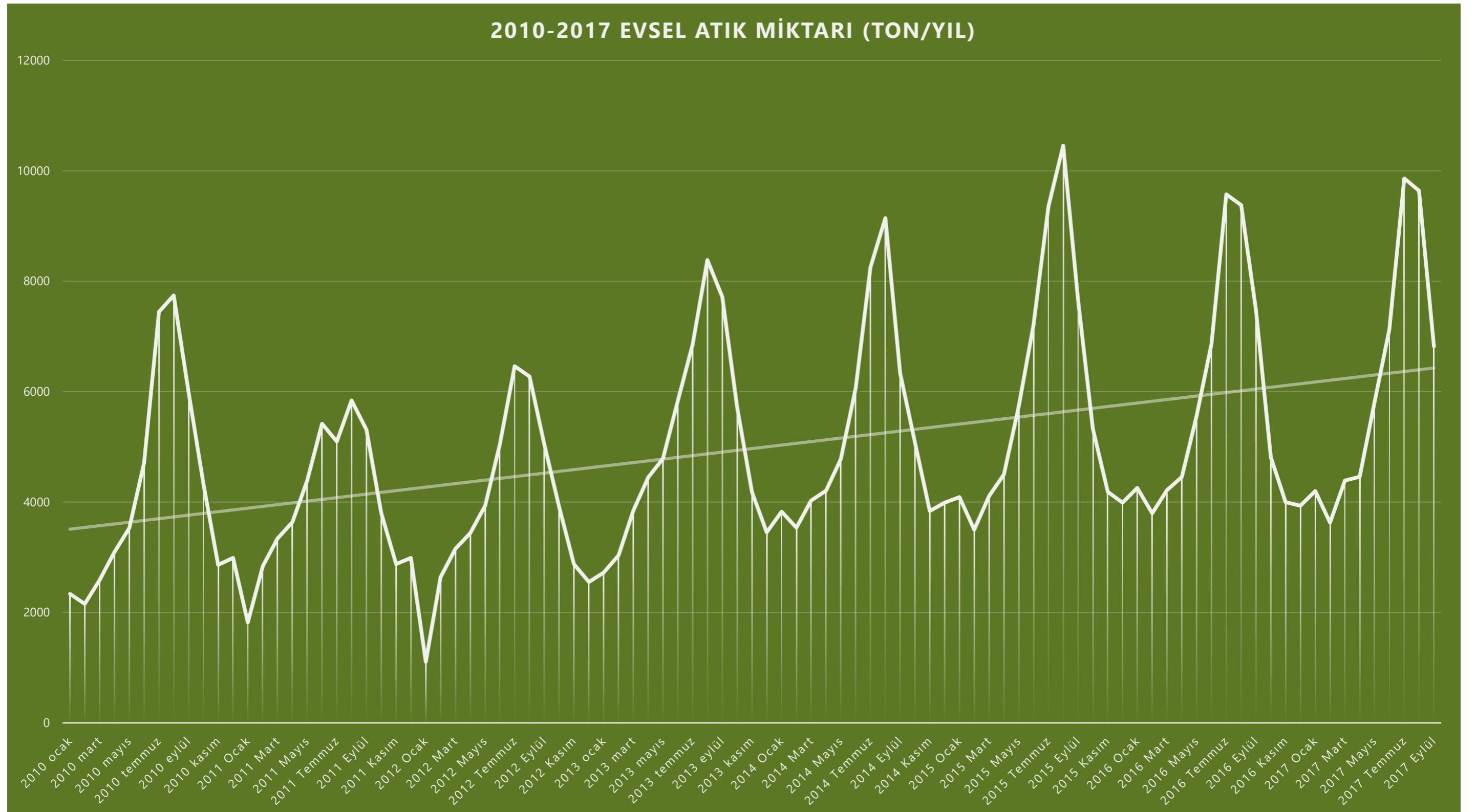
Obtainment of economic values such as heat and electric energy and fertilisers etc

KUŞADASI SOLID WASTE MANAGEMENT SYSTEM

Since December 2009, during 8 years 446.668 ton solid waste were stored in Landfill. Just in 2015, 70.093 ton solid waste were stored in Landfill.

KUSADASI DOMESTIC WASTE QUANTITIES (TON)

Date	2009	2010	2011	2012	2013	2014	2015	2016	2017
January		2334	1820	1103	2720	3824	4088	4180	4200
February		2154	2833	2639	3032	3534	3500	3794	3660
March		2588	3339	3154	3844	4027	4109	4215	4405
April		3091	3634	3436	4447	4206	4495	4454	4457
May		3528	4386	3933	4787	4778	5737	5562	5812
June		4707	5420	5048	5825	6064	7212	6870	7128
July		7445	5096	6460	6853	8251	9352	9573	9860
August		7742	5839	6274	8384	9142	10453	9376	9637
September		5999	5308	5044	7717	6335	7649	7479	6819
October		4333	3802	3904	5727	5072	5328	4809	
November		2860	2875	2872	4182	3837	4183	3997	
December	1255	2989	2989	2552	3452	3987	3987	3932	
Total	1255	49770	47343	46418	60969	63057	70093	68241	39522
Total									446668



KUŞADASI SOLID WASTE MANAGEMENT SYSTEM

PACKAGING WASTE COLLECTION AND SEPERATION PLANT

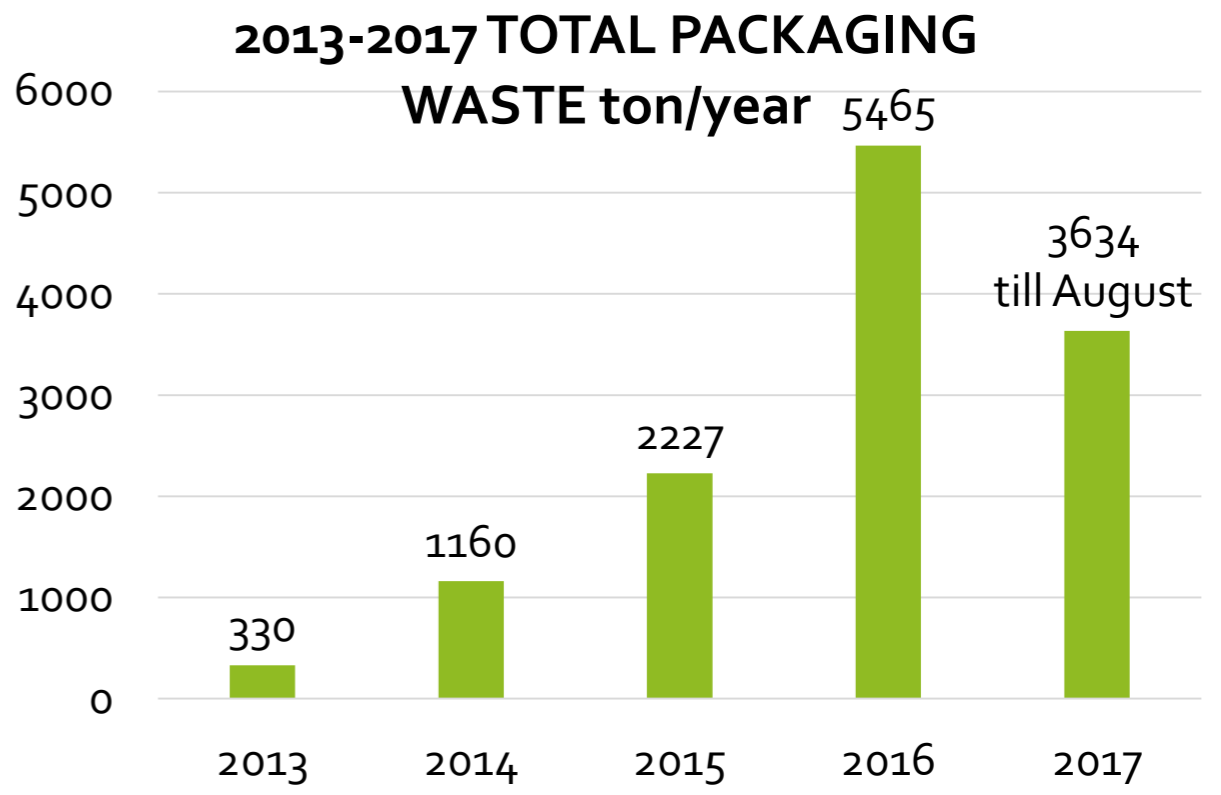
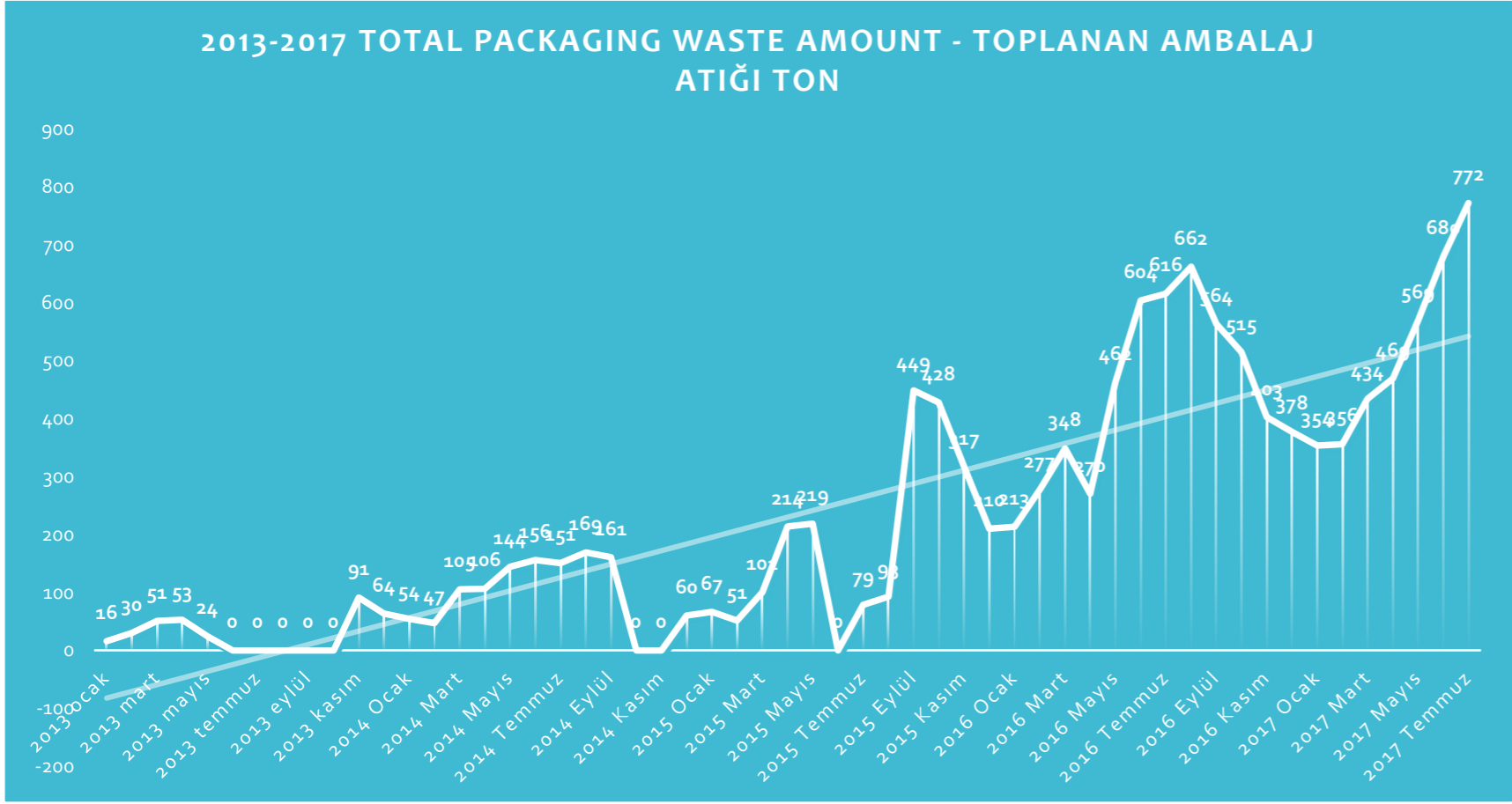
*Capacity: Min 2 ton/hr

*Operation Commencement Date :2010

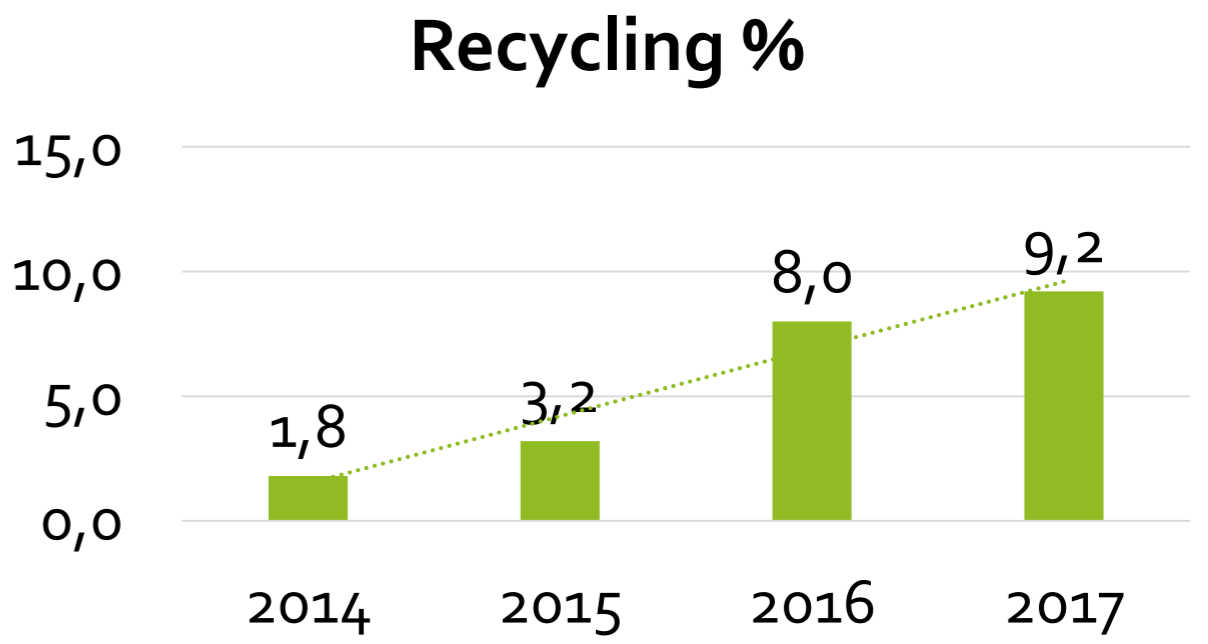


KUŞADASI SOLID WASTE MANAGEMENT SYSTEM

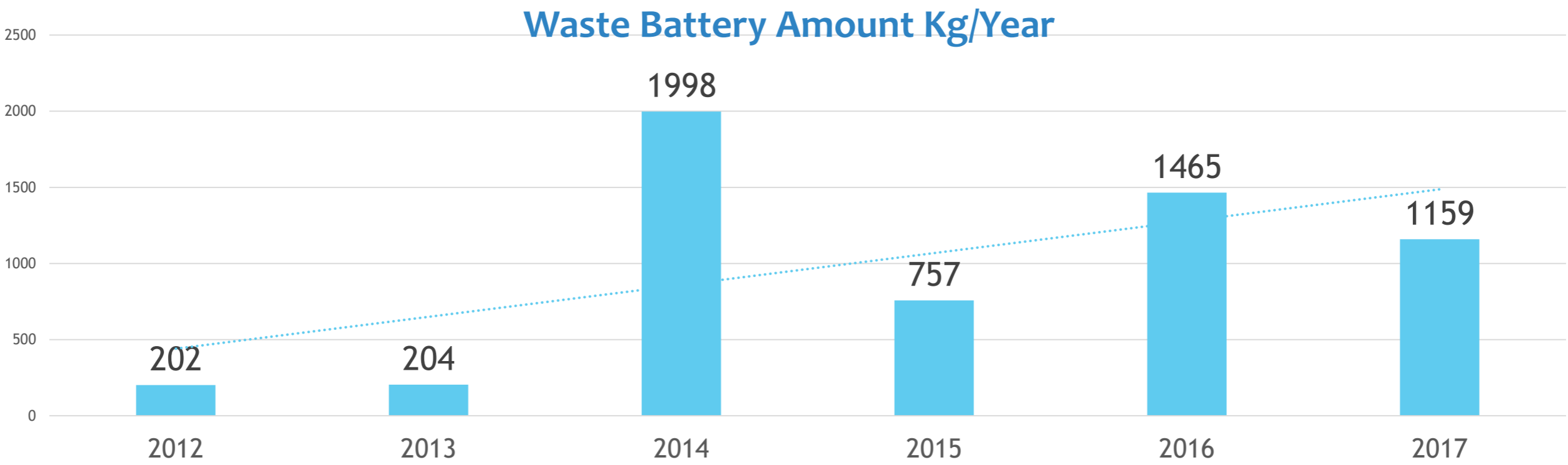
WASTE DATA



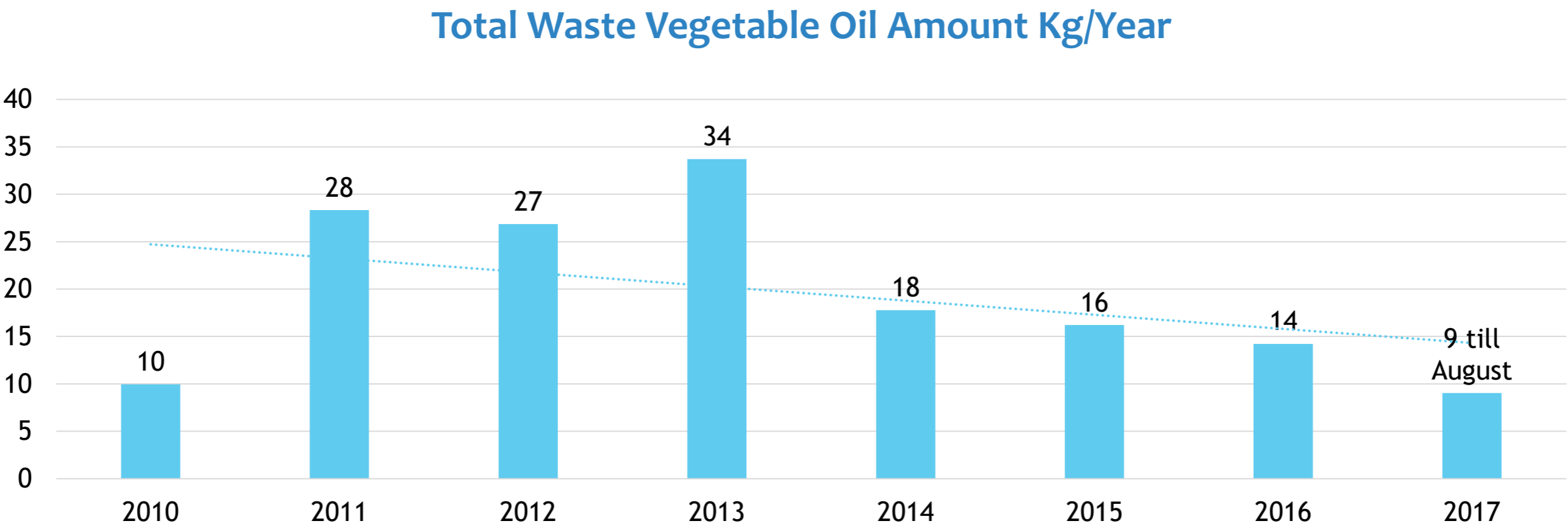
	Total Waste (Ton)	Collected Packaging Waste (Ton)	%
2014	63057	1160	1,8
2015	70093	2227	3,2
2016	68317	5465	8,0
2017	39473	3634	9,2



WASTE BATTERY COLLECTION CAMPAIGN



BRING WASTE OIL, GET YOUR GIFT CAMPAIGN



KUŞADASI SOLID WASTE MANAGEMENT SYSTEM

TRAINING AND AWARENESS ACTIVITIES

Kuşadası Municipality Directorate of Cleaning Works staff gives trainings on "Environmental Consciousness and Recycling" at schools to different branches every year. In 2017, environmental trainings were given about 5,000 students at 13 secondary school and 17 primary school with taking one lesson per class.

