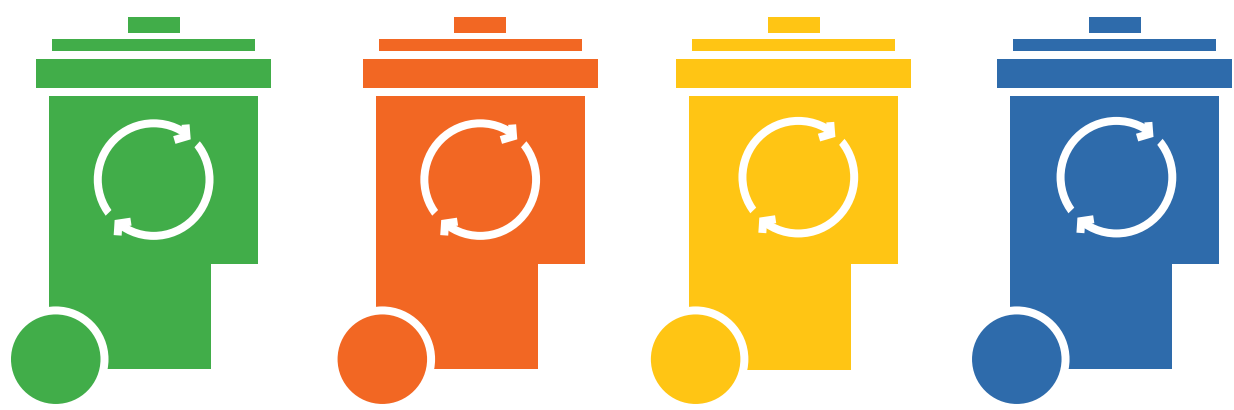


# WASTE MANAGEMENT



ALL TYPES OF WASTE RESULTING FROM ACTIVITIES CARRIED OUT BY ENKA ARE MANAGED USING WASTE MANAGEMENT PLANS DEVELOPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE ISO 14001:2015 ENVIRONMENTAL MANAGEMENT SYSTEM AND BY FOLLOWING THE STEPS OF THE WASTE HIERARCHY.

The primary goal for ENKA is to eliminate waste at its source, and where this is not possible, to prevent and reduce the amount of waste generated to the extent possible. For waste which is produced in spite of these initiatives, recycling and reuse options are considered and the environmental impact caused by the waste resulting from activities is minimised.

In cases where the steps described above cannot be implemented due to the circumstances of the country of activity, waste is categorised by type, the amounts are recorded and then disposal is carried out by certified and authorised waste disposal companies.

In order to minimise the environmental impact, the waste arising from ENKA's activities is separated according to their types and their amounts are regularly measured and monitored. All waste arising from ENKA projects is disposed of by only licensed disposal firms and in accordance with the relevant regulations.

The amounts of waste produced at ENKA group companies and projects in 2019 by their disposal methods are summarised in the following table.

■ Amounts of Waste by Type and Method of Disposal

	HAZARDOUS WASTE (KG)	NON-HAZARDOUS WASTE (KG)
RECYCLING	109,863	11,995,398
RECOVERY (ENERGY RECOVERY)	216,480	20,670
DISPOSAL BY LICENSED DISPOSAL FIRMS	8,224	6,116,196
TOTAL	334,567	18,132,264

A total of five leak and spill incidents occurred in the reporting period. These were oil, chemical and petroleum leaks, which account for 2,256 litres in total, are under the Tier II category. In one incident, in which the biggest leak occurred, approximately 2,000 litres of oil was spilled and the oil accumulated on a concrete surface was delivered to the licensed disposal firm with the relevant waste code.

■ Leak and Spill Incidents

	TIER-I LESS THAN 2 LITRES	TIER-II BETWEEN 2 LITRES AND 20 M³	TIER-III MORE THAN 20 M³
LEAK & SPILL AMOUNT	0	2,256 litres	0
NUMBER OF INCIDENTS	0	5	0

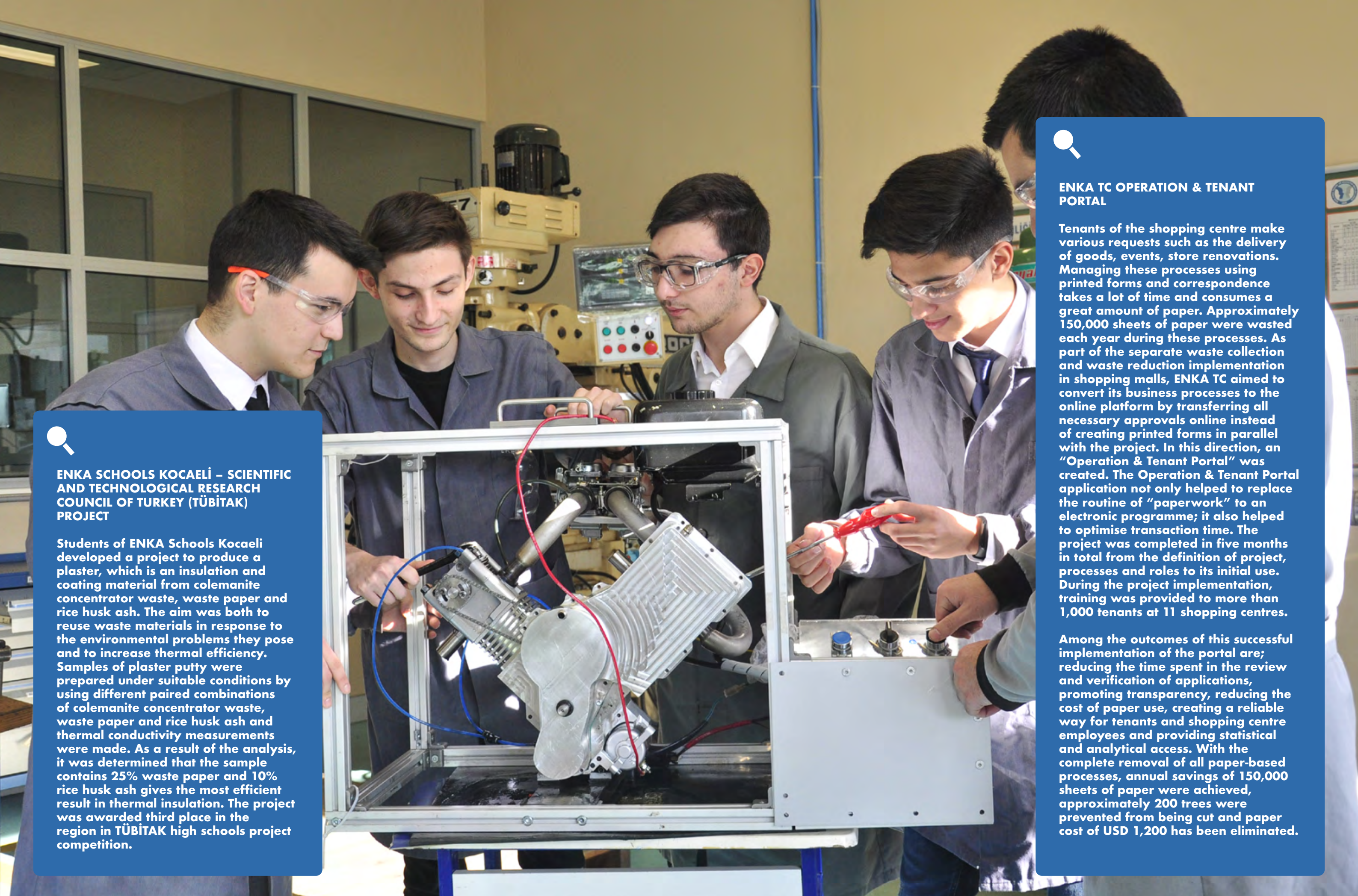
## WASTE REDUCTION EFFORTS

The policy that bans the use of plastic bottles throughout the ENKA group was strictly adhered in 2019 and fully compliance with waste management, paper use, treatment drinking water use policies implemented in ENKA Schools to reduce environmental impacts was continued. Some of the selected waste reduction projects implemented by ENKA group companies are described in the table below.

■ Waste Reduction Efforts Carried Out in 2019

COMPANY	WASTE REDUCTION EFFORTS
ÇİMTAŞ STEEL	<p>As a result of all environmental related kaizen projects and trainings, the amount of waste per person-hour reduced from 0.44 kg/person-hour to 0.36 kg/person-hour in 2019.</p> <p>A total of 2,400 hours of training was provided in 2019 to increase environmental awareness. Also, 248 hours of point trainings on waste management were delivered. In addition, 283 hours of training was provided to subcontractors on development of environmental awareness and waste management. 110 hours of environmental awareness and 55 hours of waste management training are provided to 221 individuals attending in vocational courses organised in conducted jointly with the Turkish Employment Agency (İŞKUR).</p>
ENKA TC CITY CENTER INVESTMENT BV	<p>ENKA TC and ENKA CCI have implemented a joint waste separation project involving the sorting and collection of waste in common areas and offices as of February 2019. As part of the project, waste sorting bins were placed in common areas of the shopping centres and offices. Besides, the cardboard boxes and other packaging material discarded by stores in the shopping centres were collected by the ENKA TC technical team and sent to recycling projects. 500 tonnes of cardboard packaging is recycled every year with the thanks to this practice.</p>





#### ENKA SCHOOLS KOCAELİ – SCIENTIFIC AND TECHNOLOGICAL RESEARCH COUNCIL OF TURKEY (TÜBİTAK) PROJECT

Students of ENKA Schools Kocaeli developed a project to produce a plaster, which is an insulation and coating material from colemanite concentrator waste, waste paper and rice husk ash. The aim was both to reuse waste materials in response to the environmental problems they pose and to increase thermal efficiency. Samples of plaster putty were prepared under suitable conditions by using different paired combinations of colemanite concentrator waste, waste paper and rice husk ash and thermal conductivity measurements were made. As a result of the analysis, it was determined that the sample contains 25% waste paper and 10% rice husk ash gives the most efficient result in thermal insulation. The project was awarded third place in the region in TÜBİTAK high schools project competition.



#### ENKA TC OPERATION & TENANT PORTAL

Tenants of the shopping centre make various requests such as the delivery of goods, events, store renovations. Managing these processes using printed forms and correspondence takes a lot of time and consumes a great amount of paper. Approximately 150,000 sheets of paper were wasted each year during these processes. As part of the separate waste collection and waste reduction implementation in shopping malls, ENKA TC aimed to convert its business processes to the online platform by transferring all necessary approvals online instead of creating printed forms in parallel with the project. In this direction, an “Operation & Tenant Portal” was created. The Operation & Tenant Portal application not only helped to replace the routine of “paperwork” to an electronic programme; it also helped to optimise transaction time. The project was completed in five months in total from the definition of project, processes and roles to its initial use. During the project implementation, training was provided to more than 1,000 tenants at 11 shopping centres.

Among the outcomes of this successful implementation of the portal are; reducing the time spent in the review and verification of applications, promoting transparency, reducing the cost of paper use, creating a reliable way for tenants and shopping centre employees and providing statistical and analytical access. With the complete removal of all paper-based processes, annual savings of 150,000 sheets of paper were achieved, approximately 200 trees were prevented from being cut and paper cost of USD 1,200 has been eliminated.