

ZORLUENERJİ

ZORLU ENERJİ ENVIRONMENTAL TARGETS PROGRESS REPORT

**ENERGY OF
THE FUTURE**





SCIENCE BASED TARGETS (SBTi)

Our SBTi-approved emission reduction targets and 2025 status (base year 2021, aligned with 2040 Net Zero):

Target	Base Year	2023	2024	2025	2025 Target	Status
Target 1: Reduce Scope 1 GHG emission intensity by 73.71% per MWh by 2030 and by 97.7% per MWh by 2040	2021	0.28	0.26	0.27	0.27	★★★
Target 2: Reduce absolute Scope 2 GHG emissions by 42% per MWh by 2030 and by 90% by 2040	2021	233,941	252,576	159,270	195,207	★★★
Target 3: Reduce Scope 1 and 3 emission intensity (fuel- and energy-related) by 73.71% per MWh by 2030 and by 97.8% per MWh by 2040	2021	0.40	0.45	0.26	0.29	★★★
Target 4: Reduce all other Scope 3 GHG emissions by 25% by 2030 and by 90% by 2040	2021	576,312	56,205	102,483	591,135	★★★

★★★ Target achieved ★★☆☆ Very close to target ☆☆☆ Target not achieved

Targets 1 and 3 are expressed as emission intensity (tCO₂e/MWh); Targets 2 and 4 are absolute emissions (tCO₂e). Status compares the 2025 actual against the 2025 target.



AIR EMISSIONS

Target 1: Reduce NOx emissions by 10% annually against the 2021 base year.

Target 2: Reduce SOx emissions by 10% annually against the 2021 base year.

Target 3: Reduce mercury (Hg) emissions by 10% annually against the 2021 base year.

Target 4: Reduce dust emissions by 10% annually against the 2021 base year.

	Unit	2023	2024	2025	2025 Target	Status
NOx	tonnes/year	186.00	228.00	164.3	188.10	★★★
SOx	tonnes/year	729.00	617.00	560.8	555.30	★★☆
Mercury (Hg)	mg/kg	Not measured	0.33	0.016	0.297	★★★
Dust	tonnes/year	8.30	4.62	8.95	4.158	☆☆☆



ENERGY CONSUMPTION

Target: Reduce direct energy consumption by 10% compared to the previous year.

	Unit	2023	2024	2025	2025 Target	Status
Direct Energy Consumption (Natural Gas, Diesel, Gasoline, LPG, Coal)	GJ	2,222,379	2,153,501	2,117,039	1,938,151*	☆☆☆

☆☆☆ Target achieved ☆☆☆ Very close to target ☆☆☆ Target not achieved



WATER CONSUMPTION

Target 1: Reduce water consumption by 10% compared to the previous year.

Target 2: Reduce water consumption in high and very high water stress areas by 10% compared to the previous year.

	Unit	2023	2024	2025	2025 Target	Status
Water consumption	tonnes	119,012,919	110,644,987	86,835,586	99,580,488*	★★★
Water consumption in high and very high water stress areas	tonnes	65,113,967	54,850,288	50,601,240	49,365,259	★★☆



WATER POLLUTION PARAMETERS

2025 pollutant load by power plant and 2030 target (tonnes/year):

Parameter	Alaşehir GPP (tonnes)	İkizdere HPP (tonnes)	2025 Total (tonnes)	2030 Target (10% ↓)
COD (Chemical Oxygen Demand)	0.093	<0.044	<0.137	<0.123
BOD (Biochemical Oxygen Demand)	0.040	0.009	0.049	0.044
TSS (Total Suspended Solids)	0.021	0.012	0.033	0.030

İkizdere values were measured in mg/L and converted to tonnes using its 2025 total discharge of 1.106 tonnes (tonnes = mg/L × discharge ÷ 1.000.000). The COD result was <40 mg/L, so an upper bound is given. 2030 targets represent a 10% reduction across all parameters versus the 2025 base year.



WASTE

Target 1: Reduce the total amount of disposed waste by 10% compared to the previous year.

Target 2: Reduce the amount of disposed hazardous waste by 10% compared to the previous year.

Target 3: Reduce the amount of ash by 10% compared to the previous year.

	Unit	2023	2024	2025	2025 Target	Status
Total disposed waste (hazardous + non-hazardous)	tonnes	1,674	31	469	28*	☆☆☆
Disposed hazardous waste	tonnes	95	18	157	16*	☆☆☆
Ash waste	tonnes	26,162	32,947	30,563	29,652*	★★★



NET POSITIVE IMPACT

We are committed to creating a net positive impact on nature across our existing and all new renewable energy projects to be commissioned by 2035.

Indicator	2023	2024	2025	2035 Target
Net Positive Impact (NPI) Score	–	-2,650	-2,645	0
Number of Trees Planted (units)	600,000	690,000	692,000	1,200,000

As the NPI score approaches zero, the net impact on nature improves; the 2035 target is a net positive impact (score ≥ 0).

ENVIRONMENTAL FINES and WATER-RELATED NON-COMPLIANCE

Monetary fines, non-monetary penalties and enforcement orders arising from breaches of environmental legislation, including water quality and quantity permits, abstraction licences and discharge consents.

Indicator	2024	2025
Environmental fines paid (TL)	0	0
Incidents of non-compliance with water quality / quantity permits, standards and regulations (number)	0	0
Monetary fines arising from water-related non-compliance (TL)	0	0
Non-monetary penalties and enforcement orders related to water (number)	0	0

Scope: all Zorlu Enerji operations. In both reporting years no breach of an abstraction licence, discharge consent or other water and wastewater regulation was identified; accordingly no monetary fine, operational penalty or enforcement order was incurred.