

# Non-traction: Southern and Gatwick Express

## Southern and Gatwick Express non-traction data table

Southern	April 2019 to March 2020	April 2020 to March 2021	Variance	Percentage
Non-traction electricity	29,364,269 kilowatt hours	26,296,821 kilowatt hours	3,067,448 kilowatt hours	-10.44% kilowatt hours
Non-traction gas	12,397,822 kilowatt hours	12,623,278 kilowatt hours	+225,456 kilowatt hours	+1.81% kilowatt hours
Non-traction carbon scope 1	16,273 tonnes CO <sub>2</sub> e	15,010 tonnes CO <sub>2</sub> e	-1,263 tonnes CO <sub>2</sub> e	-7.76% tonnes CO <sub>2</sub> e
Non-traction carbon scope 2	98,374 tonnes CO <sub>2</sub> e	78,862 tonnes CO <sub>2</sub> e	-19,512 tonnes CO <sub>2</sub> e	-19.83% tonnes CO <sub>2</sub> e
Water consumption	221,319 cubic metres	148,182 cubic metres	-73,137 cubic metres	-33.05% cubic metres
Waste to landfill	8 tonnes	16 tonnes	+8 tonnes	+100% tonnes

Southern has seen a 10% decrease in non-traction electricity against target. This is attributed predominantly due to the impacts of the Covid 19 pandemic. During the pandemic all Southern stations remained open (albeit with a reduced footfall) and equipment such as station lighting, office heating, CIS and CCTV are not dependant on passenger footfall. Southern have a considerable number of tenancies on their stations and it is reasonable to assume that the closure of tenancies has been a contributing factor to the electricity reduction seen on Southern.

Water consumption is similar to gas where billing data accounts for the figures used in reporting. Whilst across Southern we have seen a decrease water consumption, several water leaks were identified which increased consumption. GTR have developed a robust water leak management process which has seen considerable improvement in water leak response and can be accountable for a significant part of the water reductions seen.

Gas is predominantly consumed on engineering depots where it is used as space heating to heat the train maintenance sheds. Gas consumption has seen a minor increase on the Southern network. Due to the nature of how our gas is supplied, consumption figures are

based on billed data rather than actual meter reads, and therefore sees an element of variance due to estimates and accruals. Whilst the methodology of collating data has improved, this variance is still seen with many supplies still on estimated meter reads. The end of 2020/ start of 2021 did see particularly cold weather therefore an increase in gas consumption is not unexpected considering space heating is the significant user of gas.

Scope 1 emissions refers to direct emissions and takes into account our non-traction gas consumption and traction diesel consumption. Scope 2 emissions refer to both traction and non-traction electricity. Across Southern and Gatwick Express our non-traction electricity is supplied through a green electricity tariff, this ensures that all of our station, depot and office electricity consumption is generated through certified renewables therefore only traction electricity is accounted for within our Scope 2 data

The impact of the Covid 19 pandemic has seen a dramatic decrease in total waste volumes across Southern with waste to landfill accounting for 0.77% of total waste.

Southern and Gatwick Express's environmental data is verified annually by LRQA.



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