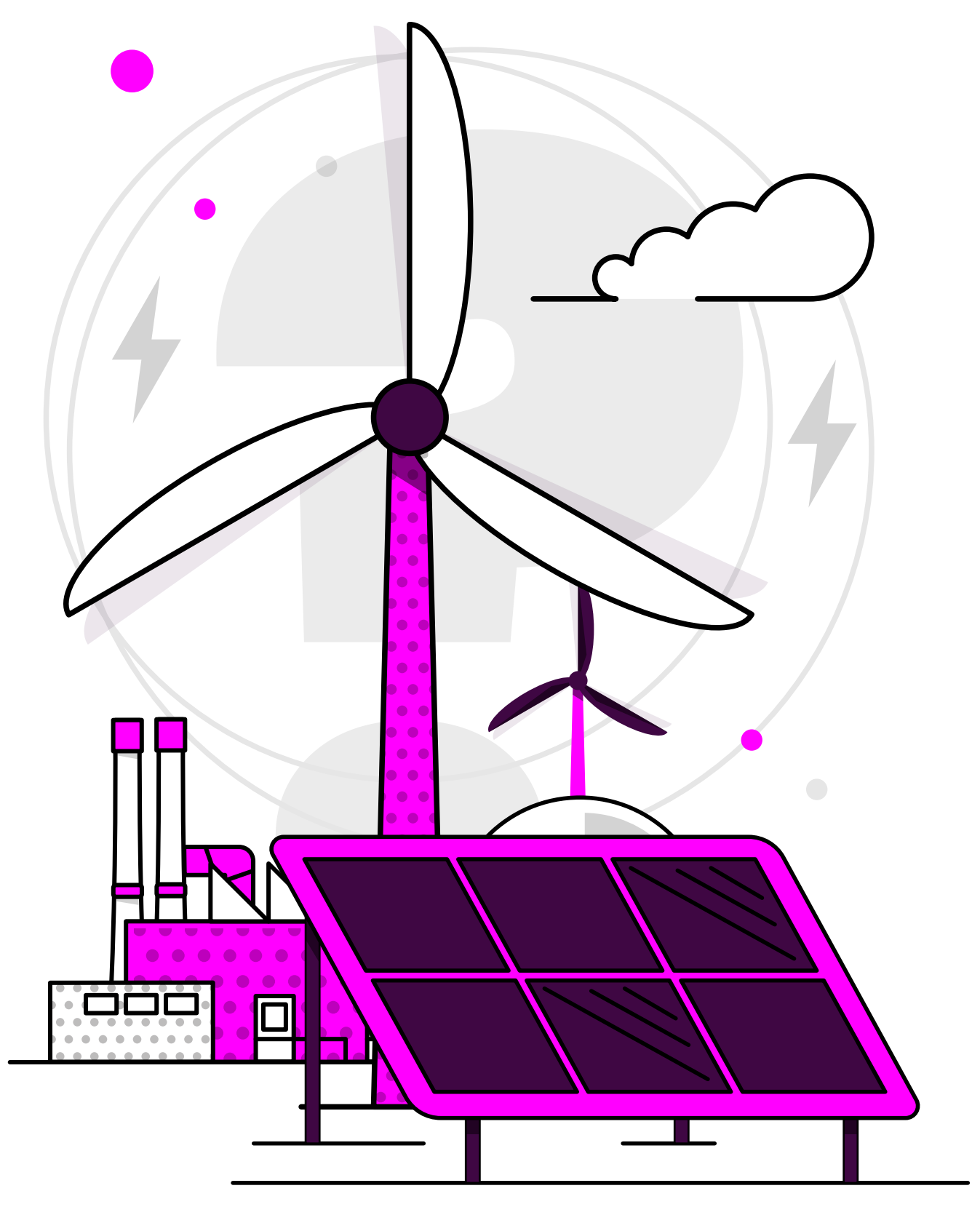
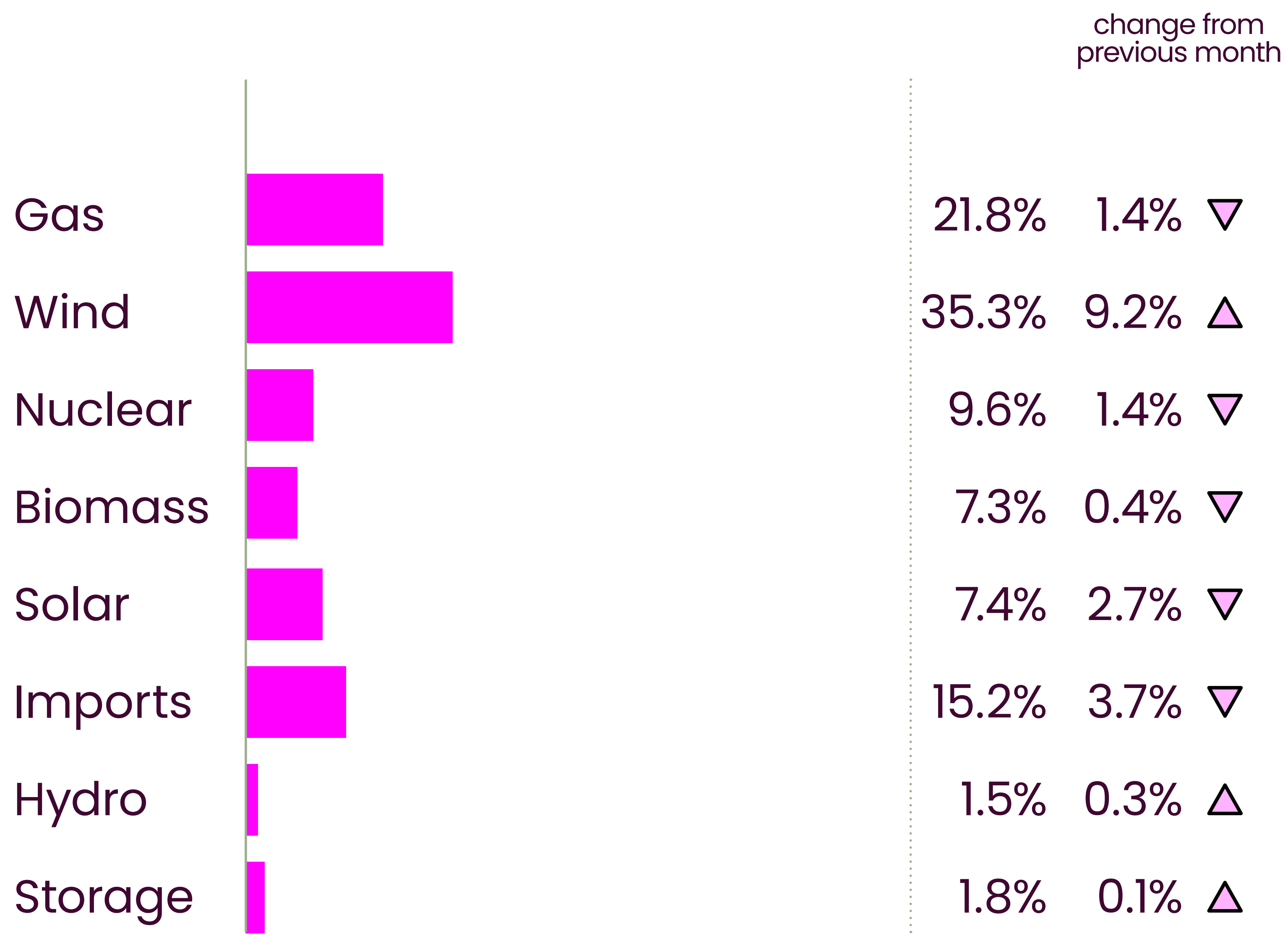
NESO
National Energy
System Operator

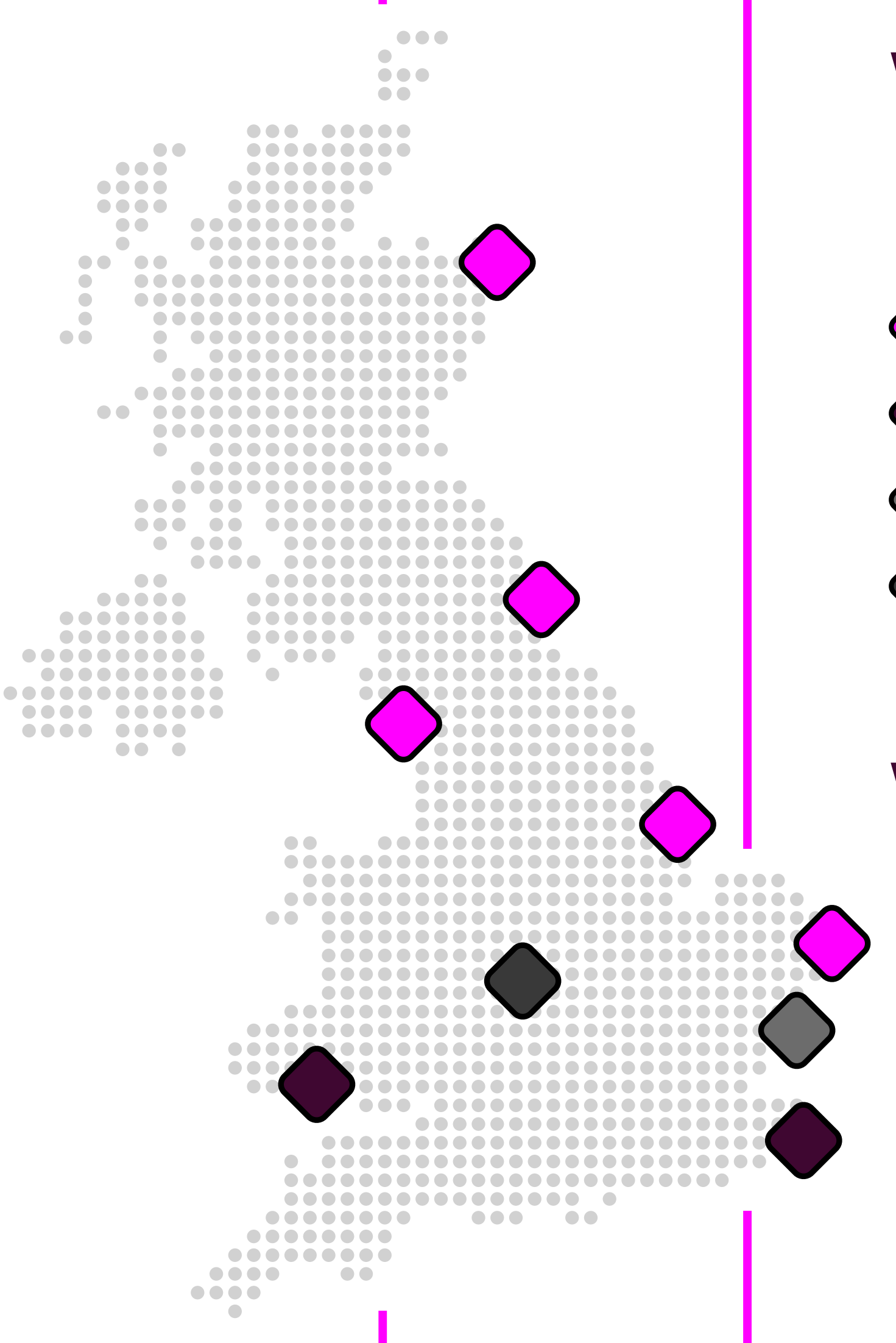
Britain's Energy Explained: September 2025

How was our electricity generated?

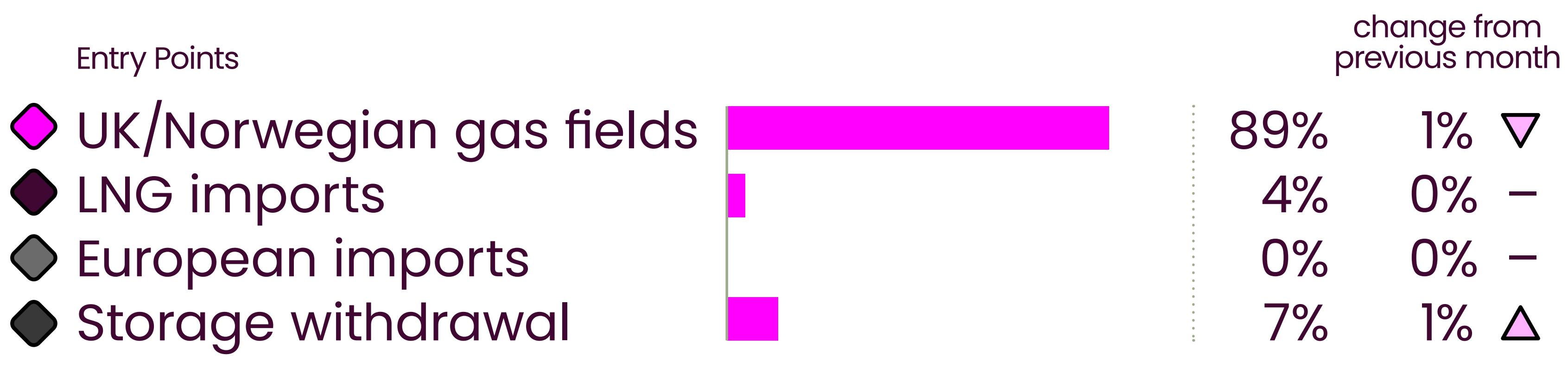




		change from previous month	
Gas	21.8%	1.4%	▽
Wind	35.3%	9.2%	△
Nuclear	9.6%	1.4%	▽
Biomass	7.3%	0.4%	▽
Solar	7.4%	2.7%	▽
Imports	15.2%	3.7%	▽
Hydro	1.5%	0.3%	△
Storage	1.8%	0.1%	△

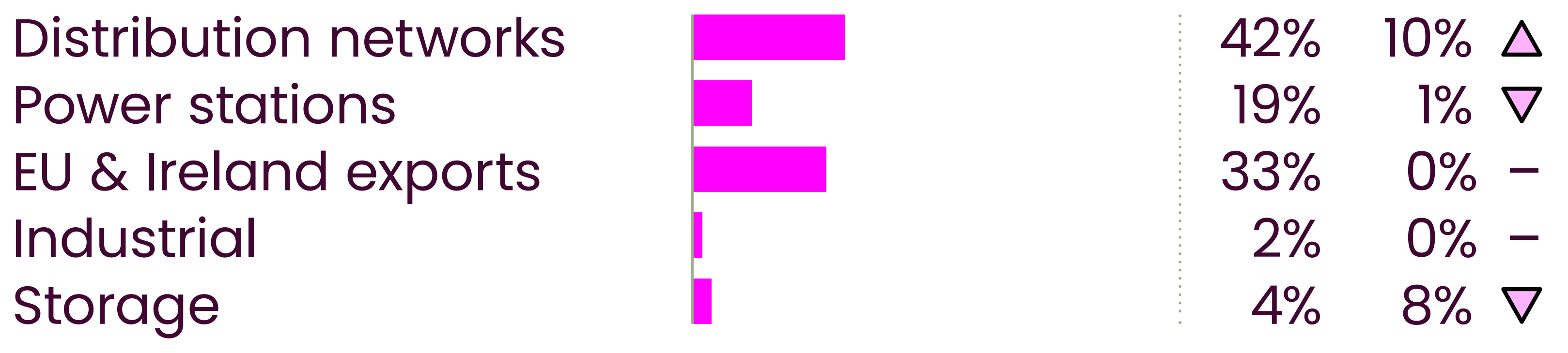


Where has our gas come from?*



Entry Points		change from previous month	
◆ UK/Norwegian gas fields	89%	1%	▽
◆ LNG imports	4%	0%	–
◆ European imports	0%	0%	–
◆ Storage withdrawal	7%	1%	△

Where is our gas used?



Distribution networks	42%	10%	△
Power stations	19%	1%	▽
EU & Ireland exports	33%	0%	–
Industrial	2%	0%	–
Storage	4%	8%	▽

*Gas data is yet to reconcile. For most up-to-date gas data, visit data.nationalgas.com

Carbon intensity of electricity

Zero carbon

67% of electricity came from zero carbon sources

89% peak zero carbon share

Carbon intensity

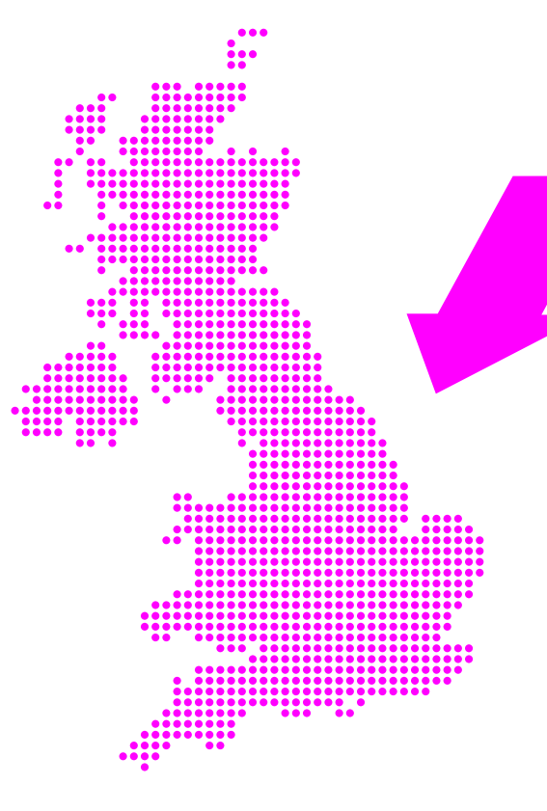
112 gCO_2/kWh average

Greenest time of the month 12:30pm on 12 September

Lowest carbon intensity 34 gCO_2/kWh

How much electricity we used

Imports & exports



Energy in
3,354 GWh

Energy out
1,053 GWh

Demand

22 TWh run through network
(that's 22 billion washing machine cycles).
Peak demand time was 6pm on 29 September.

View in real-time

To view our data in real-time, please download the NESO app for Apple or Android.
Or visit carbonintensity.org.uk