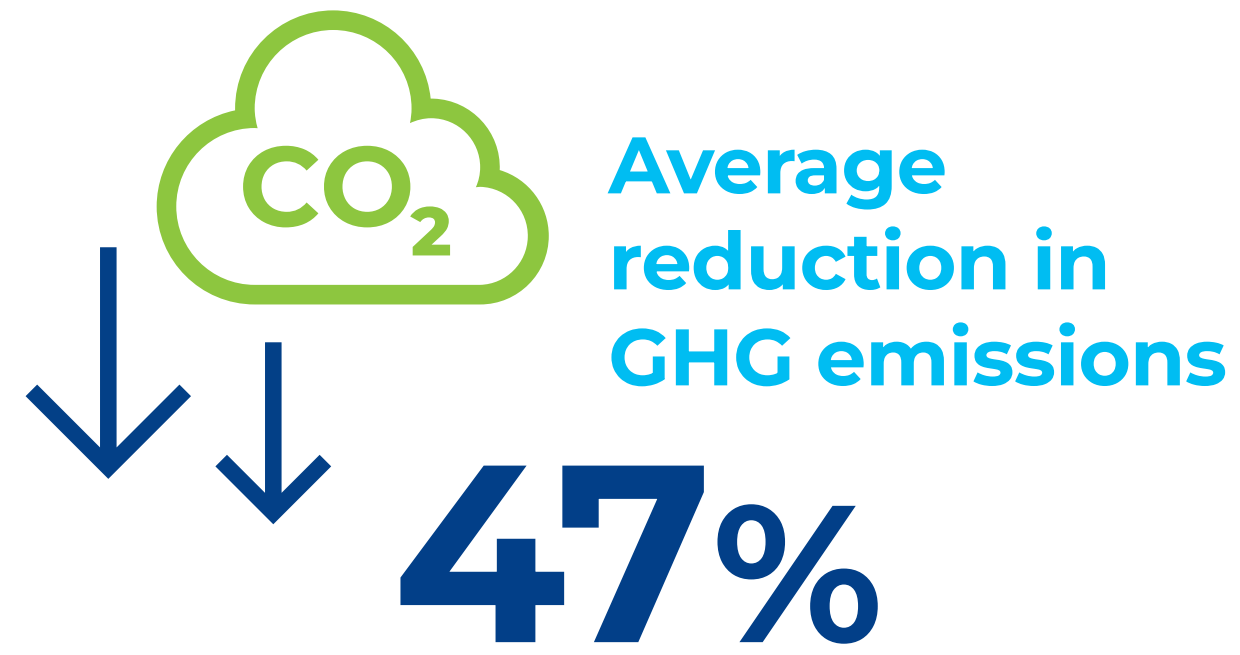
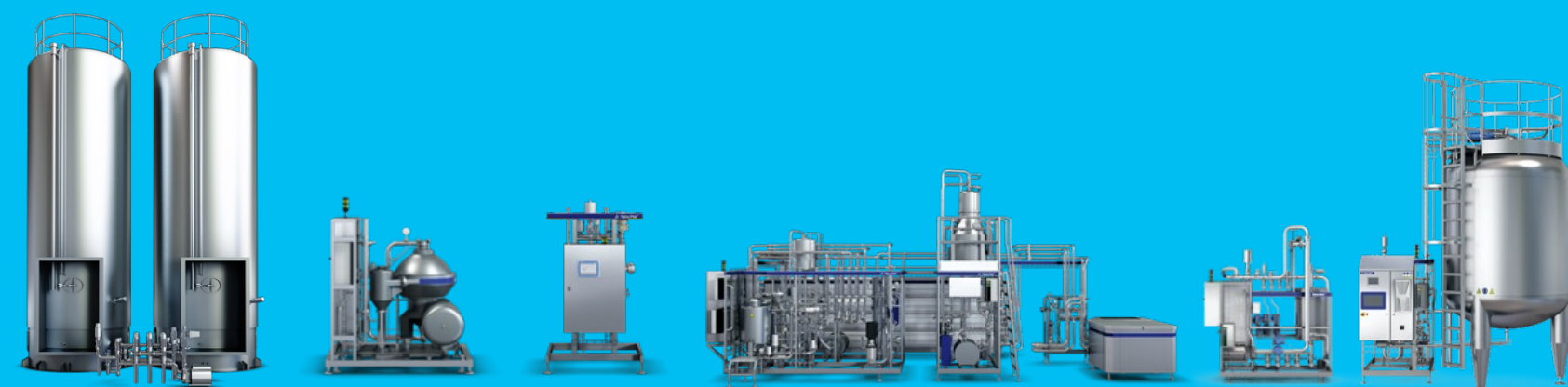


Improving existing dairy lines: validated impact at a glance

How much more could your dairy lines deliver – in emissions cuts, resource savings and lower operating costs – without full replacement? We have worked with the Carbon Trust to assess the carbon impact of improving existing liquid dairy processing lines with a defined set of market-available solutions.

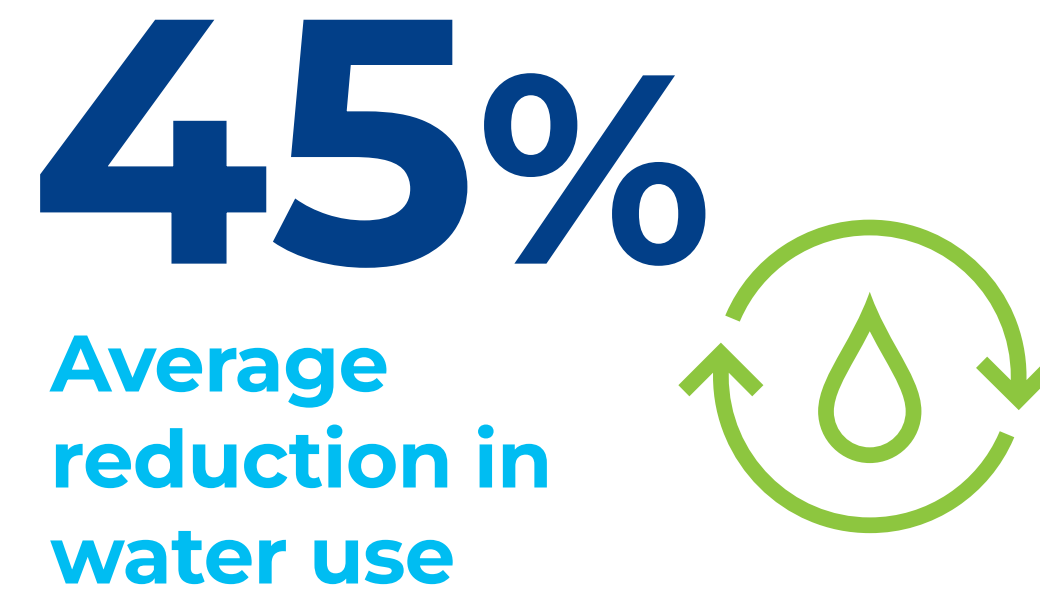
The results show that significant reductions in GHG emissions, water use and product loss are already achievable today.



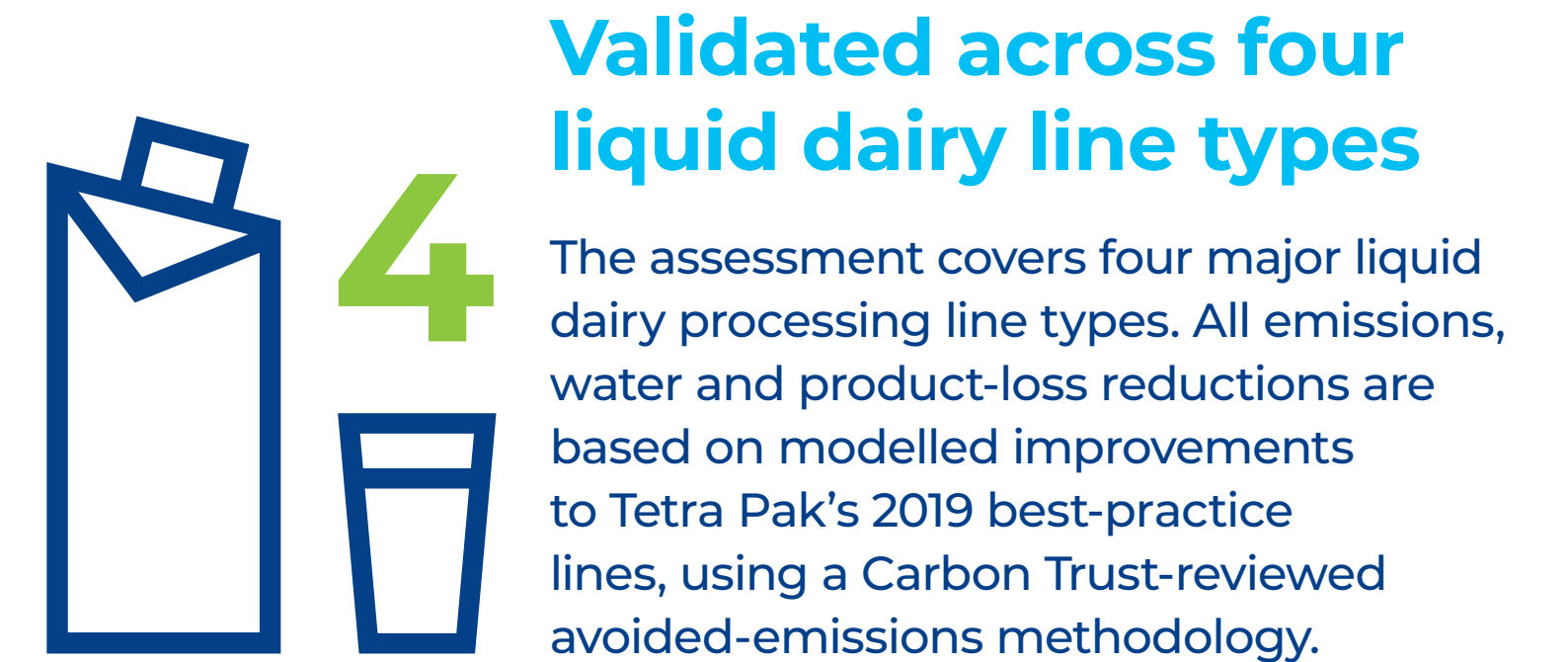
Improving existing liquid dairy processing lines with market-available decarbonisation and recovery solutions can reduce greenhouse gas emissions by 47% (on average; 40-49% range) versus 2019 best-practice lines. Across all lines in scope, this represents potential annual savings of up to 12.7 million tonnes of CO₂e if rolled out globally.



Recovery solutions and process optimisation can cut product losses to wastewater by up to by 57% (on average; 17-65% range) compared to 2019 best-practice lines. This corresponds to up to 468 thousand tonnes of product lost to effluent annually (measured as chemical oxygen demand, COD).



Implementing water-saving and recovery solutions across the same lines can reduce water use by 45% (on average; 32-49% range) compared to 2019 best-practice lines. In a global roll-out scenario, this equates to potential annual water savings of up to 455 million m³.



Results are based on modelled scenarios for Tetra Pak's 2019 best-practice lines and will vary by geography and specific site implementation. The greenhouse gas emissions assessment was developed with the Carbon Trust using best-practice avoided-emissions guidance and includes solution emissions in the calculation of net impact.