

Knowsley Council

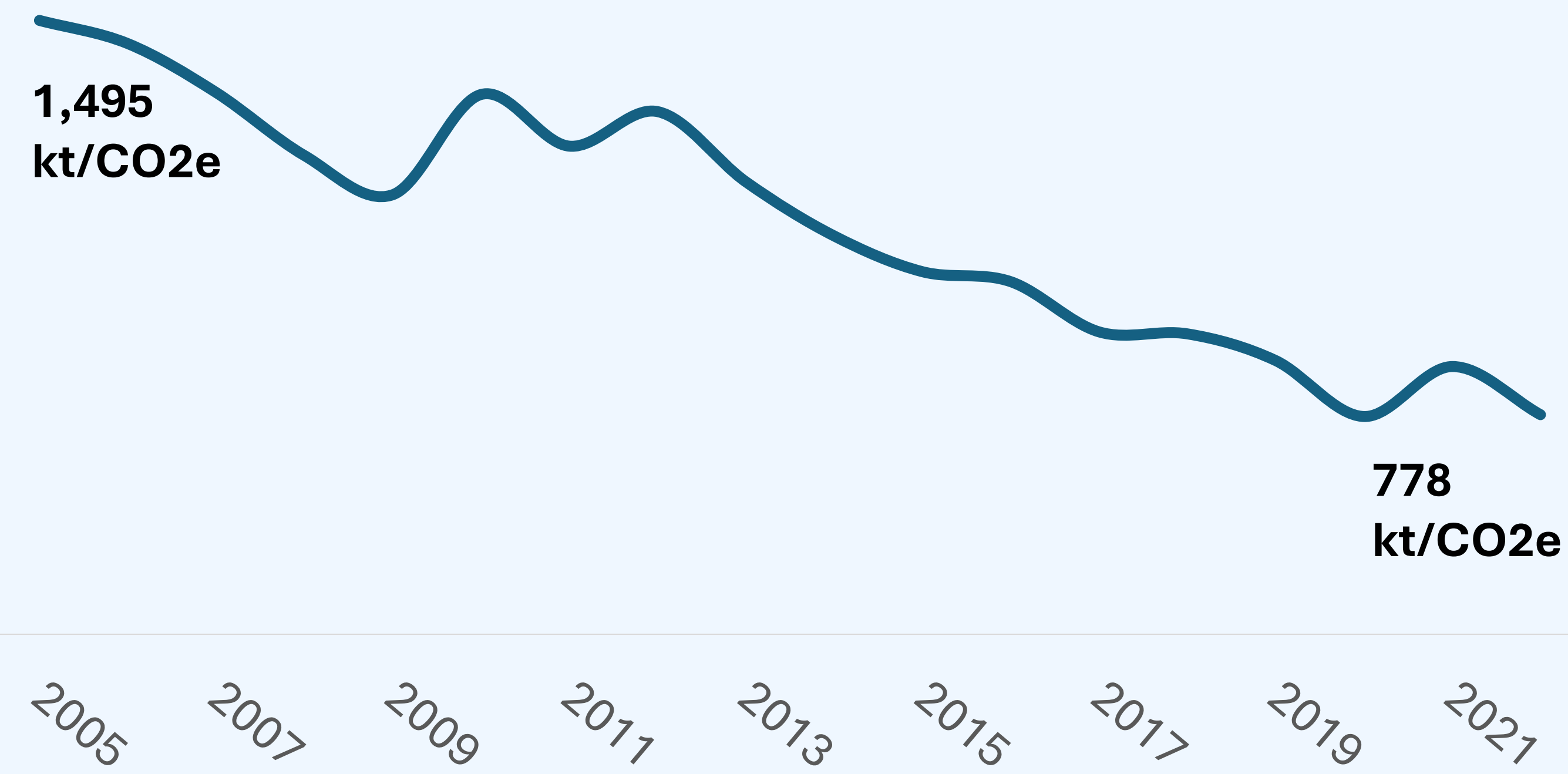
Case Study: Decarbonisation of Kirkby Leisure Centre



Knowsley Council



Knowsley Council declared a Climate Emergency in January 2020 and commitment to becoming Net Carbon Zero by 2040. An additional commitment to work with partnership organisations was also made to reduce boroughwide emissions.



Gas and electricity in Council buildings make up 69% of emissions from the Council’s estates and services, with Kirkby Leisure being the biggest emitter of emissions in the entire portfolio. This made Kirkby Leisure Centre a priority building to decarbonise.

In 2022, the Council submitted a successful £3.2m application for the Public Sector Decarbonisation Scheme Phase 3A Fund. This included works to replace the aging gas boiler system with low-carbon air source heat pumps, installing a vast Solar PV array and replacing the lighting system with efficient LED alternatives.

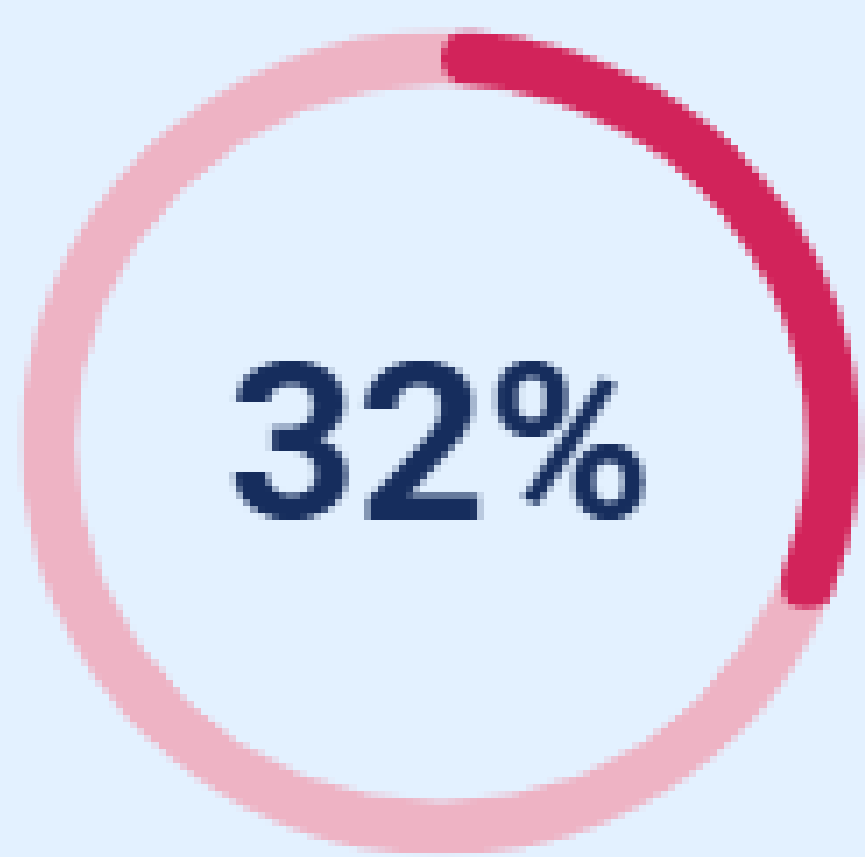


The works started on-site in October 2023 and were completed in April 2024.

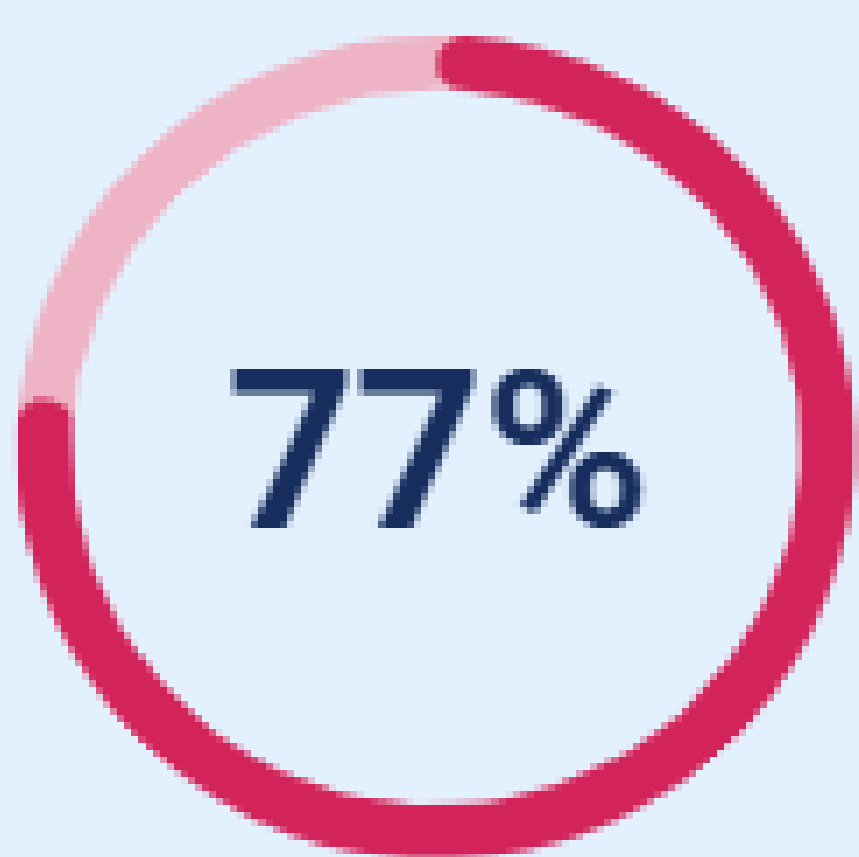




A total of 33 Air Source Heat Pumps, 758 Solar PV Panels and a full LED lighting replacement programme was completed.



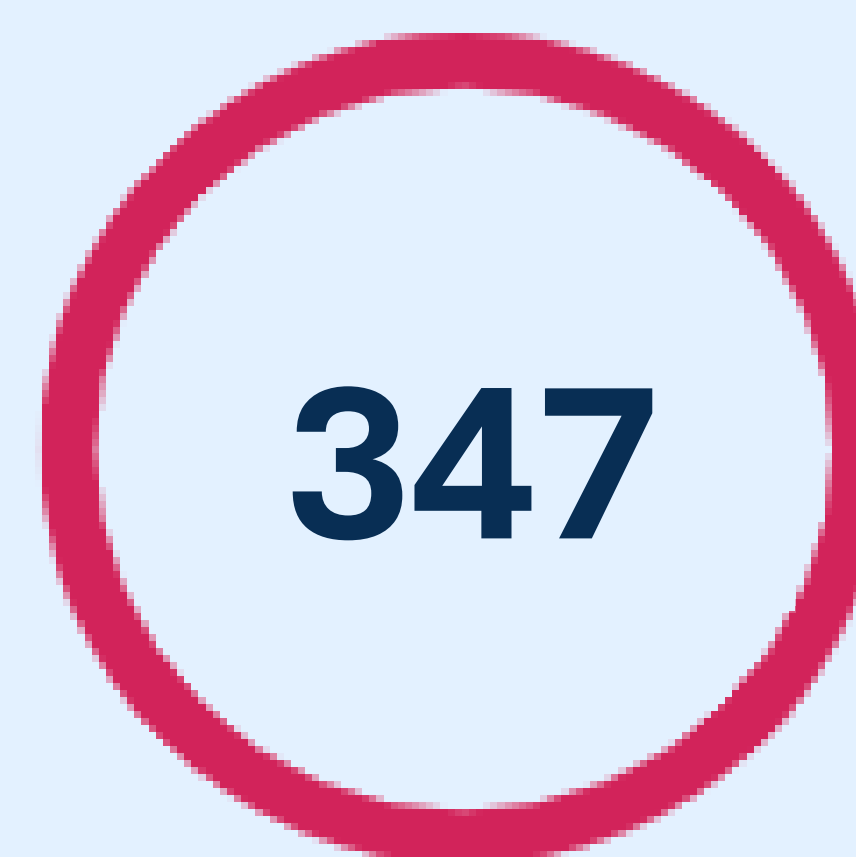
Reduction in energy costs since 2022



Reduction in carbon emissions from 2022 to 2024.



Equivalent trees planted from solar PV installation

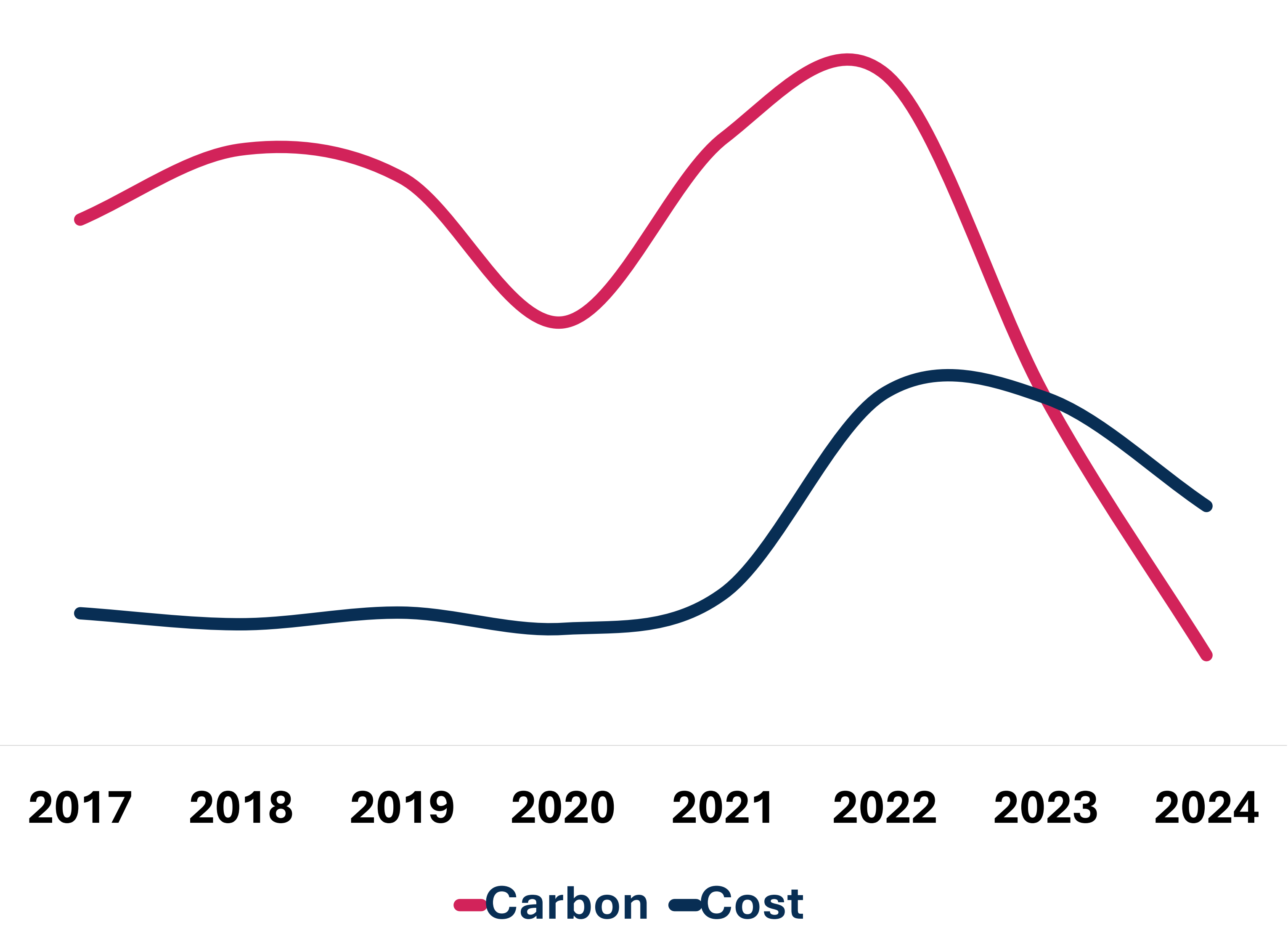


Tonnes Annual Carbon emissions saved

Financial and Carbon Savings

Following the completion of the works, there has been a 32% reduction in energy (including the complete removal of gas use) which has achieved a 77% reduction in CO2e emissions from this building.

Over 347 tonnes of CO2e are saved annually, the equivalent of 846 round-trip flights between New York and Miami.



“The decarbonisation of Kirkby Leisure Centre demonstrates Knowsley Council’s commitment to meeting its Net Zero 2040 and reducing emissions from Council buildings will remain a priority.”

Councillor Shelley Powell, Portfolio Holder for Communities and Neighbourhoods

