



Project PACE

DNO led site selection & installation
of public EV charging infrastructure



better future, quicker

Summary

Project PACE used £500k SPEN Green Economy Fund grant funding to carry out a sophisticated site selection process involving electricity network analysis as well as assessment of land ownership, environmental restrictions and potential community use. The study determined the 44 most suitable EV charging hubs across North and South Lanarkshire, which were delivered by SP Energy Networks using Transport Scotland grant funding

This approach has delivered a total saving of **£1.4m - £2.9m** in connections costs across the 44 EV charging hubs.

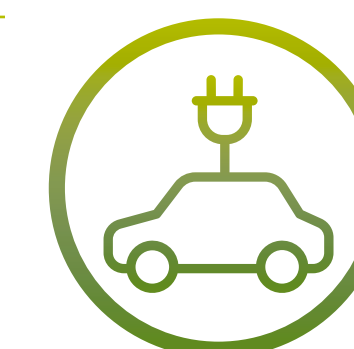
Scaling up this site selection activity to the whole of Scotland would cost ca. **£7.5m** and could save more than **£26m** in estimated connections costs.

Carrying out this site selection activity across the whole of the UK would cost ca. **£94m**, and could save more than **£310m** in estimated connections costs.



saving of
£1.4m - £2.9m
in connections costs

Scaling up this site selection
activity could save more than
£310m



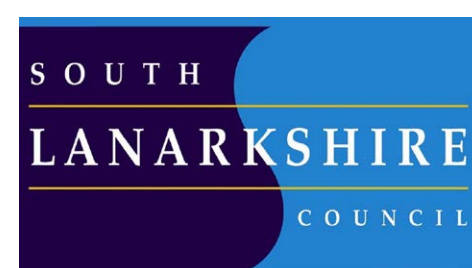
better future, quicker

Project overview

Project PACE was a major project that evolved from the strategic partnership for the decarbonisation of transport announced by the Scottish Government and SP Energy Networks in August 2019.

The **Project PACE** team at SP Energy Networks worked in collaboration with Transport Scotland and Local Authorities to deliver 167 new public chargers in 44 locations across Lanarkshire, targeting areas and communities where the commercial market has not yet delivered and is unlikely to in the short to medium term.

Project PACE explored the benefits of having a distribution network operator (DNO) involved in the various stages of deploying universally accessible public EV charger infrastructure, including costs and deliver timescales.

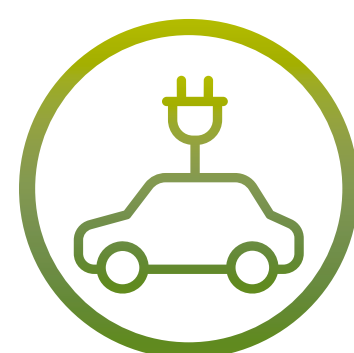


better future, quicker

Numbers of chargers delivered by **Project PACE**

Project PACE has installed **167** chargers across **44** EV charging hubs in Lanarkshire. A mix of **46** standard (7kW), **59** fast (22kW) and **62** rapid (50kW) chargers have been installed to suit the different charging requirements of Lanarkshire's residents. Each charger has 2 charging bays and can charge 2 EV's at the same time.

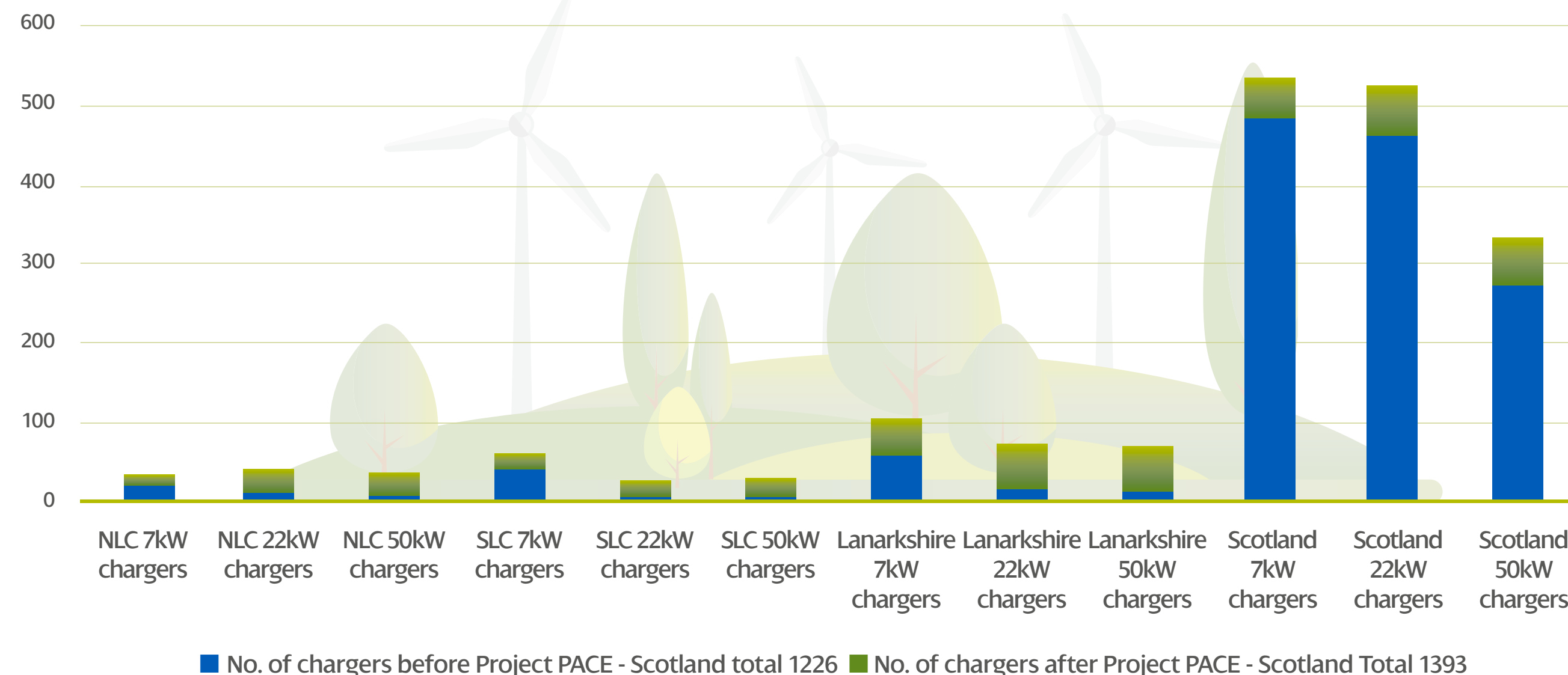
The number of EV chargers across Lanarkshire has been significantly increased, particularly the number of fast (22kW) and rapid (50kW) chargers, allowing more drivers to charge quickly.



167 EV chargers
across 44 EV charging hubs

Project PACE has installed **ca.10MW** of additional public EV charging capacity

Numbers of 7kW, 22kW and 50kW chargers on CPS network before and after Project PACE delivery

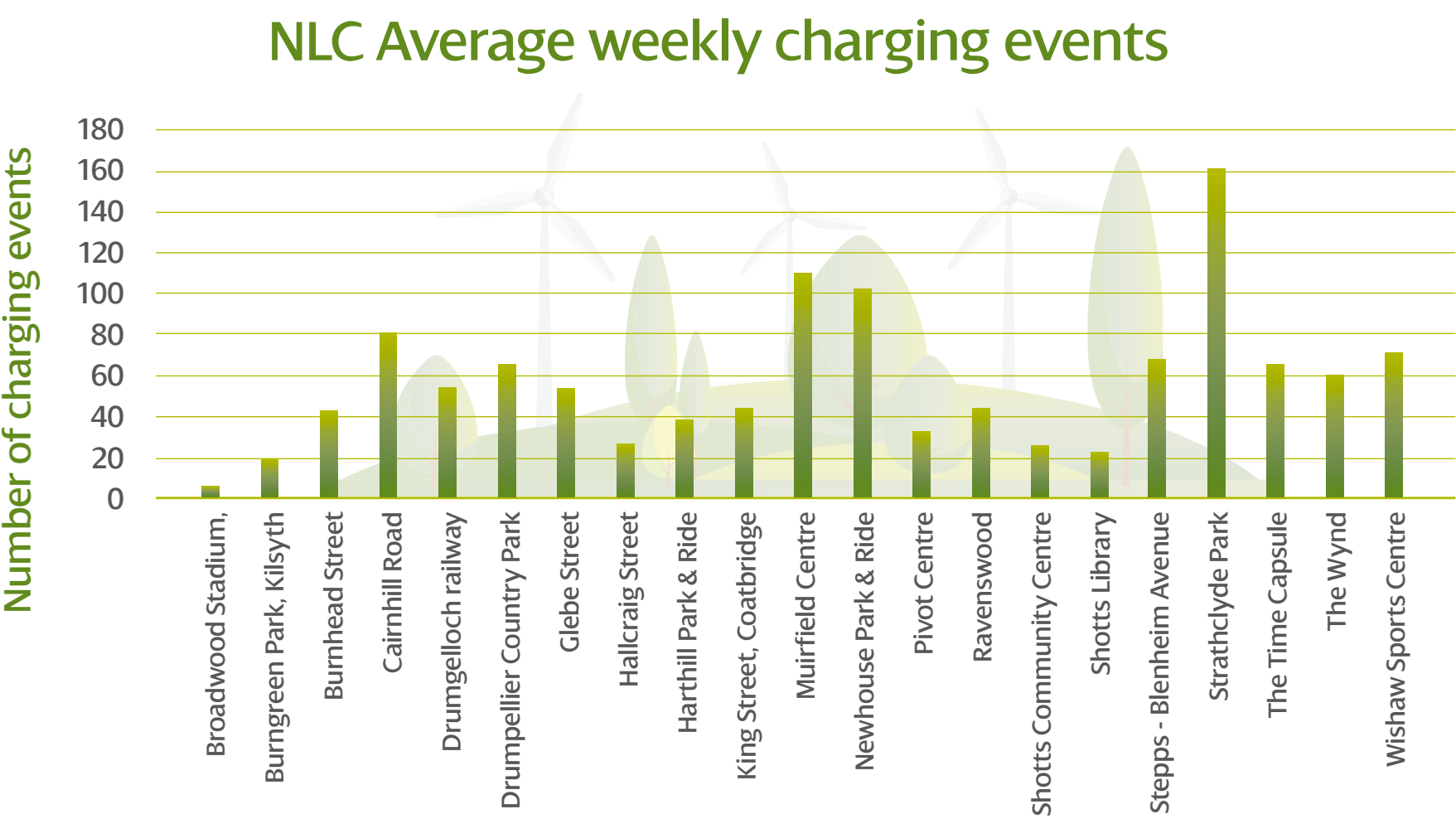


Number of existing ChargePlace Scotland chargers taken from latest published Scottish Transport Statistics (Dec 2019) and does not include any additional chargers installed by other programmes in 2020
www.transport.gov.scot/publication/scottish-transport-statistics-no-38-2019-edition/chapter-13-environment-and-emissions/

NLC Charging Hub Locations

PACE EV chargers in NLC have been used over **55,600** times, supplying **1107MW** to EVs, enough to drive over **3.8** million miles or **156** times around the earth.

Charging hubs are located in a mixture of rural and urban towns. The majority of hubs are at or near a facility such as a sports centre, train station or park. The most common location in SLC is at a sports centre.

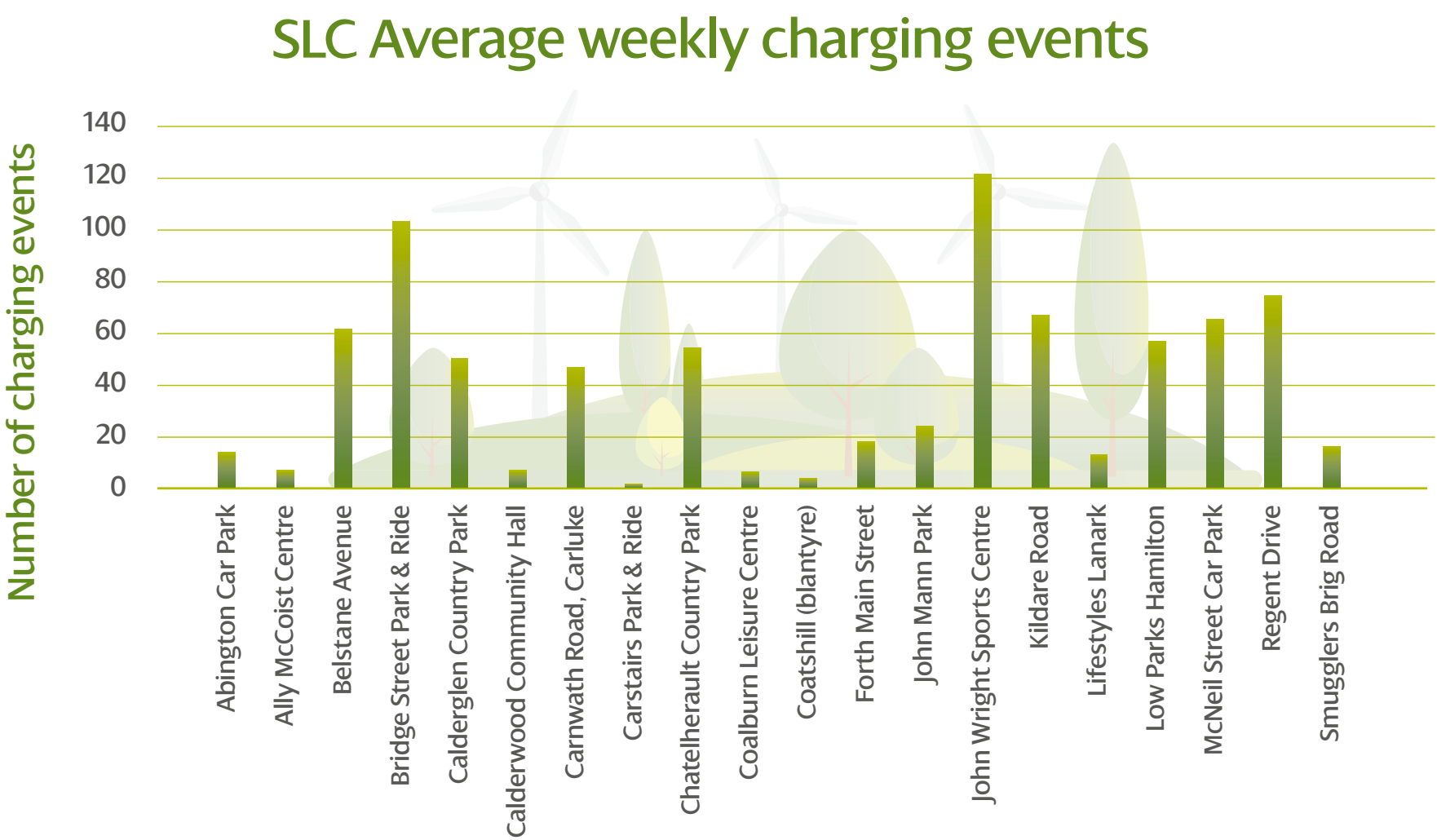


better future, quicker

SLC Charging Hub Locations

PACE EV chargers in SLC have been used over **37,100** times, supplying **748 MW** to EVs, enough to drive **2.6 million miles** or **105** times around the earth.

Charging hubs are located in a mixture of rural and urban towns. The majority of hubs are at or near a facility such as a sports centre, train station or park. The most common location in SLC is in a town centre.



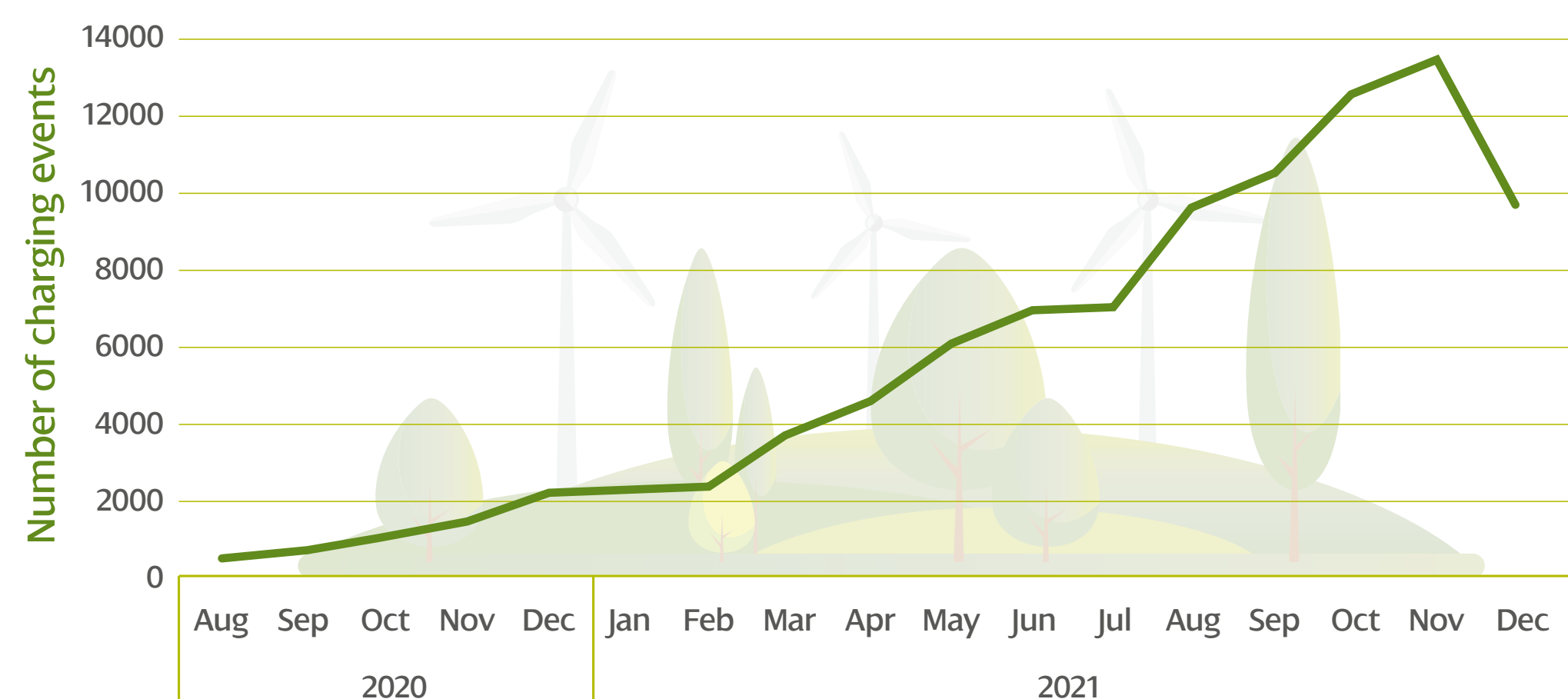
better future, quicker

Analysis of PACE Charging Events

Project PACE has delivered **167 EV chargers across 44 sites supporting over 92,700 charging events between the 5th of August 2020 and the 21st of December 2021, the date of the first site going live and the date of asset transfer to Local Authorities.**

These events supplied over **1855 MWh** of energy enough to drive over **6.4 million miles**. If these miles were driven by cars, **1129 tonnes** of CO₂ would be released requiring over **53,700 mature trees** to absorb.

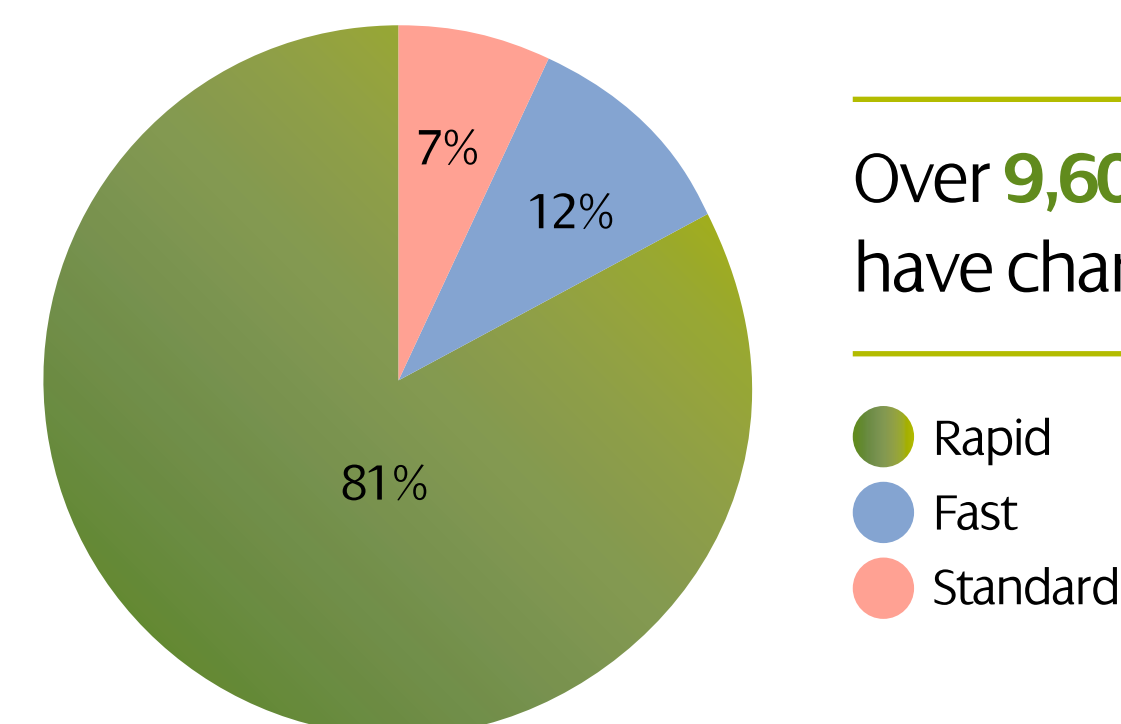
Monthly charging events across all sites



In April 2021, Strathclyde Park charging hub facilitated more charging events than any other ChargePlace Scotland hub.

Strathclyde Park facilitated twice the amount of charging events as Falkirk in May and June.

Usage of charger types



Over **9,600** unique users have charged at a PACE hub

- Events supplying up to 30kWh were the most common
- 88% of events lasted less than 2 hours
- 7 out of 10 events started between 09:00 - 17:00
- Parks were the most popular type of charging hub location

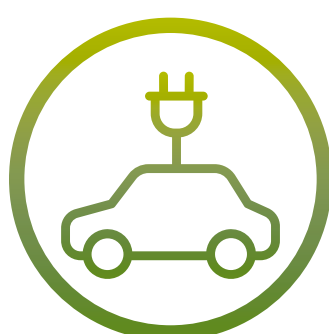
PACE Community Transport Projects

The strategic partnership recognises that the decarbonisation of transport needs to consider more than just cars. Public transport and community transport also need to make the transition.

Project PACE has worked with the Green Economy Fund to provide ca **£1m of electric vehicles for 6 community transport groups across Lanarkshire**. The electric vehicles (6 electric mini buses, 6 electric people carriers & 1 electric car) were delivered Q1 2021.

Project PACE site selection has considered potential usage by community transport groups.

More information on the Green Economy Funded community transport projects can be found here: www.spenergynetworks.co.uk/pages/green_economy_fund.aspx



Providing **electric vehicle charging** to communities across Lanarkshire



better future, quicker



Further information

further information on Project PACE, including the full site selection study report, can be found by visiting the following links:

SP Energy Networks:

www.spenergynetworks.co.uk/pages/pace.aspx

Project Partners

In Strategic Partnership with – Transport Scotland and the Scottish Government.
Working closely with both South Lanarkshire Council and North Lanarkshire Council.
Working with equipment suppliers and installers to deliver EV charging infrastructure.

better future, quicker

