

CASE STUDY	
Client Name	Northern Ireland Water
Public or Private Sector?	Public Sector
Project Title	NI Water EV charger infrastructure.
Project Description	The aim of the installation project for NI Water was to supply 100kW DC EV charger equipment as a pilot. When the pilot proved to be successful, the first tranche of 150kW DC and 22kW AC chargers were ordered, installed and commissioned.
Contract Duration	Contract awarded 31/05/2022 and 26/05/2023 respectively. Installation Start: 07/09/2022 and 01/08/2023 respectively. Duration: 1 week and 4 weeks respectively – completed on schedule for each project. Completion Date: 14/09/2022 and 29/08/2023 respectively.
Contract Management	<p>Services provided by TSG Ireland for this project:</p> <ul style="list-style-type: none"> • Complete and comprehensive response to the NI Water tender. • Successful completion of the pilot phase of the project. • Successful completion of the tender process. • Inspected and provided assistance and expertise to the plans provided by NI Water. • Several site surveys with NI Water Civils Contractor and NI Water Electrical Contractor were conducted to ensure site and EV charger requirements were met. • Project management from initial tender award through to site deployment and service implementation for fleet vehicles. • Provision of foundation kits to NI Water Civils contractor in advance of the chargers arriving in country. This enabled the contractor to install the metal frame kits into wet concrete as the plinths were being built, facilitating the rapid pace of construction works. • All paperwork and datasheets provided to the contractors. • Assisted the Electrical Contractor with ducting plans, cable size, cable type (AC/DC), Circuit Protection, Earthing Protection and Data Communications • Installation, Termination and Commissioning of 4No 100kW DC • Installation, Termination and Commissioning of 6No 150kW DC • Installation, Termination and Commissioning of 12No. 22kW AC • Provided and implemented the back-office CPO platform.

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	<ul style="list-style-type: none"> • Provided completion commissioning documentation. • Provided training on charger operation and use. • Warranty cover for 2 years as per contract on parts and labour. • TSG is involved with the ongoing maintenance of the EV Chargers, conducting scheduled preventative maintenance works on each EV charger as per manufacturer recommendations. 										
<p>Contract Performance</p>	<p>TSG Ireland was awarded the original pilot phase contract by NI Water on the 28/05/21 and had to work to exceptionally strict timelines, as completion of the installation was required by 29/08/23. This included all of the units for the pilot phases and tranche 1 of the network rollout.</p> <p>This involved close liaison with the manufacturer to ensure the priority of the build process for the NI Water equipment, which was escalated to meet the delivery date. The installation was completed successfully and handed over to NI Water within the time frame.</p> <p>The charge point operator (CPO) functionality of the service was provided by the manufacturer. TSG had to work closely and quickly with Circontrol, providing on-site support and assistance to install the network connectivity to all chargers, configure, test and ensure connectivity between the EV charger and the back-office service. These installations, configurations and tests were conducted successfully after the chargers had been installed.</p>										
<p>Project Compatibility</p>	<table border="1" data-bbox="555 1368 1385 1664"> <thead> <tr> <th data-bbox="555 1368 707 1630"> 100kW CCS, Chademo 22kW AC (Type-2) </th> <th data-bbox="707 1368 831 1630"> 150kW 2No. CCS. Each CCS @ 150kW 2x 75kW </th> <th data-bbox="831 1368 948 1630"> 22kW AC 2No Type-2 @ 22kW </th> <th data-bbox="948 1368 1166 1630"> Interoperability with back- office </th> <th data-bbox="1166 1368 1385 1630"> Installation Testing Commissioning Training Handover </th> </tr> </thead> <tbody> <tr> <td data-bbox="555 1630 707 1664" style="text-align: center;">✓</td> <td data-bbox="707 1630 831 1664" style="text-align: center;">✓</td> <td data-bbox="831 1630 948 1664" style="text-align: center;">✓</td> <td data-bbox="948 1630 1166 1664" style="text-align: center;">✓</td> <td data-bbox="1166 1630 1385 1664" style="text-align: center;">✓</td> </tr> </tbody> </table>	100kW CCS, Chademo 22kW AC (Type-2)	150kW 2No. CCS. Each CCS @ 150kW 2x 75kW	22kW AC 2No Type-2 @ 22kW	Interoperability with back- office	Installation Testing Commissioning Training Handover	✓	✓	✓	✓	✓
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