

# Best practice at BDU & SSP Electric Survey Van



## Introduction

The Engineering Survey Team at Bermondsey Dive Under have been trialling the Kangoo Electric Van to look at potential option to use the vehicle for the project duration.

### What we did

During the month of May the Bermondsey Survey team took delivery of a Renault Kangoo Electric Van. The van, which charges off a standard plug socket, has been a great tool in helping to reducing the team's emissions and costs, as well as offering a greener mode of transport for all of the other team members travelling between BDU, SSP & JFH.

The Financial benefit against a diesel van was a saving of almost £2000 over the remaining length of the BDU project. This was due to reduced fuel cost and no congestion charge.

The environmental benefit against a diesel van is a saving of 1.76 tonnes of CO2 over the remaining length of the BDU project.

### Life Cycle Costing Assessment Completed using the Skanska tool.

Project name:	Hired Electric Vehicle Vs. Hired Standard Vehicle	
Scale of project:	1	vehicle
Data quality:	Proven/Actual Data	
Applicable to:	'How we build' - construction phase	
Evaluation period:	2	years
Number of options:	2	
Date:	28/05/2015	

#### Option 1

##### Standard Renault

Mineral Diesel	£ 4,366.00	1	
Vehicle hire - Standard Renault Van	£ 3,131.00	1	60.23*52weeks = 3131.96
Con charge	£ 468.00	1	£9/week

#### Option 2

##### Electric Renault

Electricity bill	£ 1,262.00	1	
Vehicle Hire - Electric Renault ZE Van	£ 4,784.00	1	92.57*52weeks

A potential issue we found with the electric van was the lack of noise emitted. When driving on the public highway this may be a concern for pedestrians and cyclist safety especially in the London area.

The team are continuously seeking opportunities to green their operations and helping to improve local air quality and reduce dependence on fossil fuels.

An electric van would be an ideal operational vehicle for projects which involve the transfer of materials to different sites.

With savings of around £160 per 1000 miles and added benefits as summarised above. Investing in an electric van, gives the guaranteed cost and environmental savings, while also helping to make your project greener and deliver on cost targets. Unfortunately due to the two year duration of the project and the rental company requiring a five year lease it was impossible for the team to keep the van on but was a worth while trial and is highly recommended to those just starting up new projects.