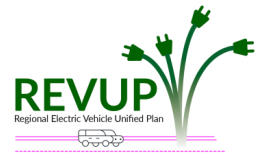


Regional Electric Vehicle Unified Plan

D3.4 Run cost comparisons with Northern Power Grid

Acronym:	REVUP
Full Title:	Regional Electric Vehicle Unified Plan
Coordinator:	Cybermoor
Project Duration:	08/2021 - 04/2022
Website:	https://revup.org.uk/
Work Package:	WP3
Deliverable:	D3.4 Run cost comparisons with Northern Power Grid
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1. Introduction

Deliverable D3.4's key purpose is to outline the differences found so far between submitting plans direct to a DNO in this case the Northern Power Grid (NPG) and an Independent Connection Provider, Elmtronics have used PWG (Power Water Gas) on this occasion.

Below we have summarised the comparisons between costs and speed of application and attempted to highlight some of the main differences.

2. Comparisons

Speed of application

ICP

Time taken to pull together plans to submit to an ICP - under 1 hour.

What's required:

- A brief description of what would be the ideal scenario for the site based on customer needs/wants and our findings at site survey stage.
- An overview of the site

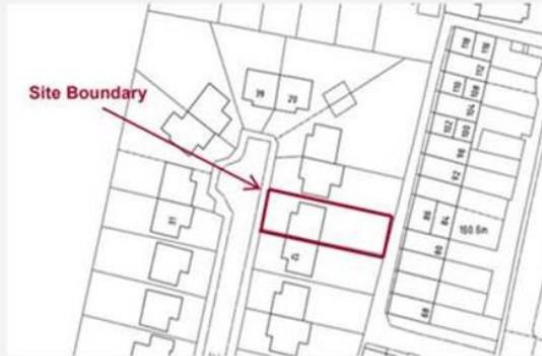
DNO

The application itself takes roughly 2 hours.

There is a lengthy online application process for an electrical design engineer to complete and submit including Site Location Plan and Builders Plan as specified in the image below.

Site Location Plan*

In order to provide a quotation we require a site location plan indicating your **site boundary** and the **position of your property** within this boundary. This should be on an ordnance survey or land registry background.



Builders Plan

We also require a builders plan indicating your preferred **meter position** marked with an **X**.



Plans can be found at www.ordnancesurvey.co.uk or give us a call and we can provide you with a site location plan

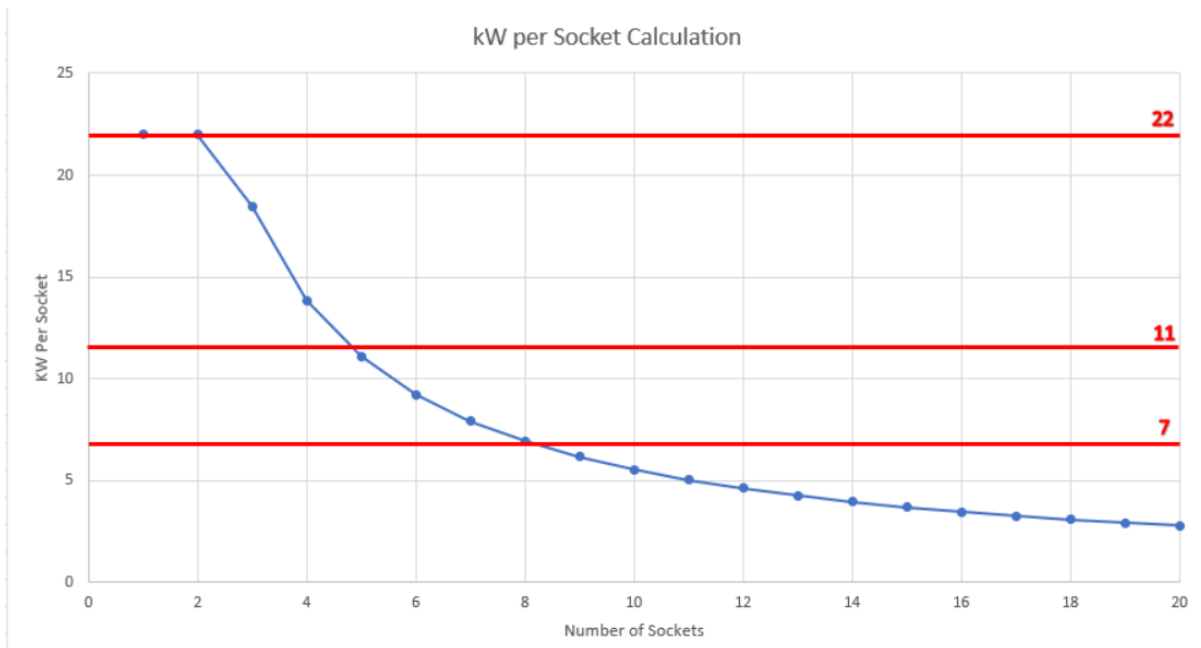
From here it is a minimum of 30 days (6 weeks) to receive a response from the DNO.

3. Cost

It should be noted that the DNO/ICP require all their parts of the works to be paid upfront if agreed upon. The connection offer expense is payable regardless of whether the plans are accepted, rejected or reposed.

ICP

Connection offer expense to DNO (in this case NPG)
£480 + VAT under 100kVA and £610 + VAT over that value.



Despite acting as an intermediary and having to take time to submit plans to the DNO on Eltronics behalf, an ICP would not necessarily be more costly than the DNO because of how they break down the contestable works, for anti-competition they all need to be in the same price bracket and the ICP might prove to be cheaper on this basis.

DNO

Connection offer expense to DNO (in this case NPG)
£480 + VAT under 100kVA and £610 + VAT over that value.

The connection offer expense is just for the DNO/ICP to provide the quote for the works. Whichever party submits the plans isn't tied into anything at that stage, but the quote will be valid for 90 days. We have to pay the £480 if we accept or not.

The next stage costs if the connection offer is accepted, always varies depending on the groundwork required.

4. Conclusion and Next Steps

Meetings have been held with the NPG in order to ascertain where improvements can be made to the process in order to assist DCC with the installation of infrastructure. If a Local Authority were to adopt the STEP Solution, they may need to work with their DNO closely to achieve the same. This sits outside the boundaries of Eltronics involvement as a private company. This means it could be an area where a publicly funded entity could benefit.

There is an online tool to use on NPG's website but according to Durham CC's experience this can give inaccurate information. For example, a green connection line should indicate that this connection path is acceptable, however DCC have examples of plans being submitted and the initial costs paid, then finding the suggested path is not acceptable. DCC's feedback on this is that an alternative or multiple options (where available) should be shown in the early stages to allow for an informed decision to be made.

There will be more to be added in terms of findings, not necessarily progress in relation to this topic in the final progress report as more sites are visited and assessed using the online tool.