

Appendix G

SSE



Our reference: ETW279
Your reference:

Southern Electric Power
Distribution Plc
Connections South,
Walton Park,
Walton Road,
Cosham,
PO6 1UJ

WSP,
MR JULIEN BLAVIGNAC
MOUNTBATTEN HOUSE,
BASING VIEW,
BASINGSTOKE,
RG21 4HJ

 02392 624801
 07586282177
 Dean.Joynson@sse.com
 www.ssen.co.uk

Date: 02nd June 2021

Dear Fred,

BUDGET ESTIMATE FOR 268 CONNECTIONS AT LAND NORTH OF COPSE LANE, EMSWORTH

Thank you for your recent enquiry. I am pleased to provide you with my budget estimate for the new electricity connection at the above development. I have enclosed a copy of our cable records for your information. My initial proposals will be subject to our obtaining all necessary legal consents to carry out the work as indicated, including any consents required from third parties.

 **540,020.00**

This budget estimate has been calculated exclusive of vat.
and does not constitute an offer of terms

Please be aware this estimate reflects the current situation and cannot be guaranteed into the future. This estimate does not include necessary reinforcements on the wider network that may be triggered by this connection. Any necessary reinforcements would be identified in a formal connection offer, and part or all of the cost of these reinforcements would be included in the connection charge. Before making any financial commitments based on the indicative price above, please contact me to request a firm quotation.



The budget estimate has been calculated based on a high level assessment, my local knowledge and experience, the information you have provided and the assumptions listed overleaf. It is my best estimate of the costs you would incur for this proposal and is intended for budgetary proposes only.

I trust the information I have provided is of assistance and if I can help further please do not hesitate to contact me. Alternatively, you may find answers to any questions you may have on our web site www.ssen.co.uk.

Yours sincerely,

Dean Joynson
Trainee Connections Designer

These budget costs are based on the following:

High level cost for installation of 268 new connections.
Includes a small proportion of potential reinforcement costs, however Upstream reinforcement has not been considered as part of this estimate.
This estimate does not allow for any diversionary works.
This budget is based upon the customer completing all excavation and reinstatement works on site.

Safety

We ask you to take note of the following:-

In accordance with the Health & Safety Guidance Note GS6, you are required to take every precaution to ensure that cranes, tipper lorries, scaffolding, ladders and other plant employed on your works are kept at a safe distance from overhead electric lines and their supports and that such supports are not disturbed by excavations. Goal posts with height restriction will need to be placed at appropriate locations for vehicles passing underneath Scottish and Southern Electricity Networks overhead lines.

In accordance with Health & Safety Executive Guidance Note HS (G) 47 care will also be necessary when digging in proximity to underground cables, particular if mechanical excavators are used.

Overhead lines, underground cables and other electrical plant must be regarded as being "live". Before commencing work in proximity to such plant written notification must be given to Scottish and Southern Electricity Networks.

If during the course of your works, any cable should be damaged by you/or your contractors, then this fact must be reported to our Emergency Service Centre on 08000 72 72 82 (Southern Electric Power Distribution plc) immediately. The cost of any repairs will be fully rechargeable.

Locating cables on site

The drawings that I have enclosed with this quotation are not suitable for locating cables on site. To obtain the latest copies of our cable records please send a plan of the area in question together with your contact details to:

Mapping Services
Scottish and Southern Energy Power Distribution
P O Box 6206
BASINGSTOKE
RG24 8BW

Tel: 01256 337294

Fax: 01256 337295

Requesting details of any Scottish and Southern Energy Power Distribution plant and cables in the area. You must excavate hand-dug trial holes to establish the actual positions of all cables before any mechanical excavation works commence.

Blavignac, Julien

From: Blavignac, Julien
Sent: 18 May 2021 11:05
To: Joynson, Dean
Cc: Beeching, Luke
Subject: RE: ETW279 - LAND NORTH OF LONG COPSE LANE, EMSWORTH, PO10 7UR

Dean,

Thank you for your email.

ETW279 - LAND NORTH OF LONG COPSE LANE, EMSWORTH, PO10 7UR

We have informed our clients about the advantages of a formal application and feasibility study/
Please proceed with the quote format as initially planned.

We would be grateful if SSE could budget for the following two scenarios:

-Scenario 1 (Lower Bound requirements): Design demand of 988kVA

Diversity maximum demand figure of 2.0 kVA and a design demand of 551.2 kVA for general domestic loading + air source heat pumps.

Electric vehicles diversity factor of 0.22: $7.4\text{kW} \times 0.22 \times 268 \text{ homes} = 436.3 \text{ kVA}$.

So for this scenario design demand = $551.2 + 436.3 = 988 \text{ kVA}$

-Scenario 2 (Upper Bound requirements): 2,359kVA

Each house has a 10kW heat output air source heat pump

Heat pumps have a Coefficient of Performance of 2.8 and therefore a 3.6kVA electrical input demand. Assume diversity factor of 0.85.

2.0 kVA ADMD base load.

In this scenario peak demand per home would be $(3.6 \times 0.85) + 2.0 = 5.1 \text{ kVA}$ and so domestic demand with heat pumps = $5.1 \times 268 = 1,366.8 \text{ kVA}$

SSEN guidance for electric vehicles (TG-NET-NPL-001 section 11.11): $7.4\text{kW} \times 0.5 \times 268 \text{ homes} = 991.6 \text{ kVA}$.

So for this scenario design demand = $1,366.8 + 991.6 = 2,359 \text{ kVA}$

Should you need further information, please do not hesitate to contact us.

Regards,

Julien Blavignac Bagr, MSci
Senior Engineer



T+ 44 (0)1256 318 585

Mountbatten House, Basing view, Basingstoke, RG21 4HJ

wsp.com

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From: Joynson, Dean <Dean.Joynson@sse.com>
Sent: 12 May 2021 18:28
To: Blavignac, Julien <Julien.Blavignac@wsp.com>
Subject: ETW279 - LAND NORTH OF LONG COPSE LANE, EMSWORTH, PO10 7UR

Good Evening,

I have been passed your budget estimate request for "LAND NORTH OF LONG COPSE LANE" and am just wanting to confirm some details with you.

Firstly, Based upon your questions:

The investigation is to test the potential development of 260 No. houses.

Could SSEN confirm if there is sufficient capacity in the existing supply network on Long Copse Lane to supply the development of 260 new homes? Could you confirm likely sources of electricity supply? Do these have capacity for our site or will they need to be reinforced? What off site reinforcement works to the strategic network are likely? Could you confirm the likely quantum of works? Are there any key trigger points for upgrade/how many units can be supplied without reinforcement?

I am not sure that a Budget estimate is actually the best thing for you. A budget estimate will simply give you a rough ballpark cost based upon high level knowledge of what a scheme like this would cost, WITHOUT reinforcement costs. None of the above questions will be answered with a budget estimate.

Realistically, if that is the level of information you are requesting, then you have 2 options –

A feasibility study (Chargeable, cost dependant on load) which is somewhat similar to a budget estimate, however with far more accurate costings and with reinforcement works accounted for.

Or

A formal application. Again this is chargeable, however the fee is set by the total capacity and Works type of your application (please see the Connection Offer expenses link in my signature). This provides you with an accurate, acceptable and progressable offer.

Once we confirm what type of application you wish to go with, we also need to clarify on your required loadings. I know there are likely to be 260 plots, each with an EV charger and ASHP, however I do need some indication of the rating of the Heat pumps, and also, I would highly recommend that you allow for some diversity – otherwise we are going to end up modelling this on 260 plots at 23kVA each, which is close to 6MVA and will very likely lead to a new circuit breaker from the nearest primary being required, along with a new HV circuit and multiple substations.

For now, I have left the application as a budget estimate based upon the 6MVA given above, if I do not hear back with alternative suggestions I will issue a budget estimate on this basis on 03/06/2021.

Kind regards

Dean Joynson
Trainee Connections Designer
Tel: 02392 624801
Ext: 34801
Mob: 07586282177

E: Dean.Joynson@sse.com
Scottish & Southern Electricity Networks, Walton Park, Walton Rd, Drayton, Portsmouth PO6 1UJ
www.ssen.co.uk

Blavignac, Julien

From: Joynson, Dean <Dean.Joynson@sse.com>
Sent: 07 June 2021 12:48
To: Blavignac, Julien
Subject: RE: ETW279 - LAND NORTH OF LONG COPSE LANE, EMSWORTH, PO10 7UR

Good Afternoon Julien,

That is correct, Budget estimates are high level assessments only with no site specific reinforcement factored in, nor any diversion works.

The estimate is based upon the provision of substation(s) and LV cabling as necessary, along with a generalised potential reinforcement cost only.

We do not provide an assumed POC on Budget estimates anymore, this is something which really needs a formal application or feasibility study to look at the site in more detail to be able to answer.

Kind regards

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Thank you for your email. Please note that any enquiries or applications for a new connection or changes to existing connection must be sent to connections@ssen.co.uk to ensure they are looked at by our Connections and Engineering Team who can process this for you.

To make a payment towards an existing application please email quote.acceptance@sse.com

Please be aware that Connection Offer Expenses, where applicable, will be due to be paid for the provision of this Connection Offer. Where applicable this will be payable even if you do not wish to accept your Connection Offer. If you cancel your applications within 14 days you will not be liable for any Connection Offer Expenses. However where applicable, if you cancel after this point you will be required to pay the full amount. For further information on Connection Offer Expenses, including where charges are applicable, you can find our [Connection Offer Expenses user guide here](https://www.ssen.co.uk/connections/usefuldocuments/).

From: Blavignac, Julien <Julien.Blavignac@wsp.com>
Sent: 07 June 2021 12:11
To: Joynson, Dean <Dean.Joynson@sse.com>
Cc: Beeching, Luke <Luke.Beeching@wsp.com>
Subject: [EXTERNAL] RE: ETW279 - LAND NORTH OF LONG COPSE LANE, EMSWORTH, PO10 7UR

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Dean,

One additional query...

I understand that the budget quote was prepared based on experience of similar development site and experience rather than a specific review of the site.

However, we have noted that 11kV lines overhead crossing the south east corner of the site.

Is the budget quote allowing anything for the diversion associated with the 11kV lines?

Thanks in advance.

Rgds,

Julien Blavignac Bagr, MSci
Senior Engineer



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Mountbatten House, Basing view, Basingstoke, RG21 4HJ

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From: Blavignac, Julien
Sent: 07 June 2021 12:01
To: Joynson, Dean <Dean.Joynson@sse.com>
Cc: Beeching, Luke <Luke.Beeching@wsp.com>
Subject: RE: ETW279 - LAND NORTH OF LONG COPSE LANE, EMSWORTH, PO10 7UR

Dear Dean,

Thank you for the quote you kindly sent us on the 12th of May.

We just had a look and were wondering if you could possibly confirm what was the assumed point of connection for the site to the electricity network.

It is something that we used to have confirmed via SSE in the past.

In addition, has an allowance been made for a new electricity substation to the 11kV network?
Are you able to give us a bit of information on that?

Thanks in advance for your response and help.

Rgds,

Julien Blavignac Bagr, MSci
Senior Engineer



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Kind regards

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Tel: 02392 624801
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