

[REDACTED]

From: Jonathan Cooper [REDACTED]
Sent: 22 February 2022 10:41
To: Anita Gardner <Anita.Gardner@arun.gov.uk>
Cc: Mark Cullen [REDACTED]
Subject: RE: 95888: Pre Commencement Condition Letter - CM/69/21/PL

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Hi Anita,

I tried ringing you a moment ago as I feel this is much easier to explain over the phone rather than by email. I also sent you the attached email yesterday giving more information,

To respond to your latest email:

To explain the process of our site, we have a grid connection offer from the local distribution network operator (DNO), Scottish and Southern Electricity Networks (SSEN). In operation of our site we have two forms of revenue, one through SSEN and one through National Grid. How we operate is highlighted in the planning statement. Effectively SSEN will offer hours where they will purchase electricity from third party electricity generators (such as Conrad Energy where we will bid batteries, solar and flexible generation). Our flexible generation assets will sell power to SSEN early in the mornings and late in the evenings, when the generation from renewable sources cannot meet demand. Our technology does indeed provide electricity at a local level into the substation via an 11kV connection and the tenders put out by SSEN will stipulate the area energy is required and the voltage (11/33/132kV). Our contract with National Grid is called a Capacity Market contract and effectively means that at

times where there is an emergency, National Grid can call upon our asset to run to meet demand not being met by generation on a national scale. However these events happen on average 1-2 times per year. So the majority of the operation of our asset will be at local level to SSEN.

If you see my previous email (attached) I explain that electricity generation in the UK is transitioning from generation at large scale by major energy providers (nuclear, coal-fired, large CCGT) to a decentralised energy system with generation at a local level. We cannot make this transition fully to renewable assets (and switch off major non-renewable power stations) without having back-up technology that can meet this energy consumption at a local level at times when renewable generation is intermittent (think solar and wind being solely reliant on weather and season). Other technologies which can meet this need – nuclear, battery, hydrogen for instance, either have significant lead times and cost to operation or simply aren't technologically advanced enough to meet the energy need. Conrad Energy are actively developing battery and hydrogen assets with the ambition of running all gas turbines across the UK on a green hydrogen/natural gas mix, including the site at Ford.

The DNOs are very much onboard with flexible generation assets and actively encourage them through their tenders. As are National Grid through the awarding of their Capacity Market contracts where we stipulate our technology which is beneficial to them as flexible generation assets can power up very quickly (within 5 minutes) and run continuously until the emergency event is over, which makes them the most viable technology for these contracts (over say a large coal fired power station which could take several hours to be running at full capacity).

We have before provided a letter of approval from DNO's accompanying our application as I will show attached for a site in East Anglia where UKPN highlight the need for flexible generation assets. Whilst this relates to another site in another DNO's region (UKPN), SSEN would likely be willing to provide a similar letter, however at such short notice this would not be feasible.

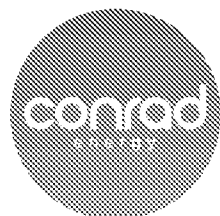
If you are curious on SSEN's view on thermal generation please visit their website (<https://www.sse.com/what-we-do/sse-thermal/>). To quote their website: "Flexible and efficient thermal energy will be essential as the UK and Ireland transitions to a low carbon future. Our assets complement renewable generation, maintain security of supply and provide large-scale generation in a net zero world." This technology is also supported by National Policy and National Grid as highlighted in the planning statement.

I hope this helps,

Kind regards,

Jonathan Cooper

Project Manager



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Conrad Energy

• w: conradenergy.co.uk

a: Suites D&E, Windrush Court, Blacklands Way, Abingdon, OX14 1SY



From: Mark Cullen [REDACTED]
Sent: 22 February 2022 09:31
To: Jonathan Cooper [REDACTED]
Subject: FW: 95888: Pre Commencement Condition Letter - CM/69/21/PL

Hello Jonathan,
Just forwarding another email from Anita requesting some further information regarding your liaison with the below, in particular National Grid.
Mark

MARK CULLEN MRTPI
Associate

[REDACTED]
www.alderking.com



From: Anita Gardner <Anita.Gardner@arun.gov.uk>
Sent: 22 February 2022 09:26
To: Mark Cullen [REDACTED]
Cc: Juan Baeza <Juan.Baeza@arun.gov.uk>
Subject: FW: 95888: Pre Commencement Condition Letter - CM/69/21/PL

Hi Mark,
Further to the additional information supplied yesterday can you advise if the applicant has had any correspondence with National Infrastructure Board, Southern Electric, UK Power Networks or National Grid?
Members are keen to understand how the installation would relate to the wider network as well as the local area and to seek clarification of how/if the above bodies have been involved in the process of site selection and whether it is supported by any of them.
Regards
Anita

Anita Gardner
Principal Planner

T: 01903 737529
E: anita.gardner@arun.gov.uk



Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
www.arun.gov.uk

From: Anita Gardner
Sent: 21 February 2022 11:26
To: Mark Cullen [REDACTED]
Cc: Juan Baeza <Juan.Baeza@arun.gov.uk>
Subject: RE: 95888: Pre Commencement Condition Letter - CM/69/21/PL

Hi Mark,

The above application was taken to Member Briefing Panel on Friday and they have asked for more detail of the following which I will include in a Committee report update.

- Please advise on the levels of methane that this will generate.
- How widespread are these sites? Are they being rolled out throughout the Country?
- They would welcome the applicant to speak at committee. (I know you have advised that they are keen to do this.
- Can you provide background on who the applicant is?

Regards

Anita

Anita Gardner
Principal Planner

T: 01903 737529

E: anita.gardner@arun.gov.uk

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www.arun.gov.uk



From: Mark Cullen [REDACTED]
Sent: 16 February 2022 10:29
To: Anita Gardner <Anita.Gardner@arun.gov.uk>
Cc: 'Jonathan Cooper' [REDACTED]
Subject: 95888: Pre Commencement Condition Letter - CM/69/21/PL

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Hi Anita,

Yes I can confirm we agree to the attached pre-commencement conditions.

Many thanks,

Mark

MARK CULLEN MRTPI
Associate

[REDACTED]
www.alderking.com



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From: planning.responses@arun.gov.uk <planning.responses@arun.gov.uk>

Sent: 16 February 2022 09:34

To: Mark Cullen [REDACTED]

Subject: Pre Commencement Condition Letter

<http://www.arun.gov.uk>

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RE: 95888: Pre Commencement Condition Letter - CM/69/21/PL

Hi Anita,

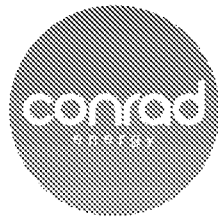
Yes I can respond to those queries, see responses below:

- Please advise on the levels of methane that this will generate.
 - o I do not have the specific data on Methane as this varies engine to engine, which is selected post-planning consent, however I can ensure that post-planning consent and prior to operation, all flexible generation plants will require an environmental permit – the Medium Combustion Plant Directive which regulates all emissions to ensure that sites are compliant in producing no resultant risks to human health and environment. In addition, we submitted an Air Quality Assessment with our application, produced by qualified Air Quality Consultants which stated: “Predicted concentrations of all pollutants were below the relevant EQSs at all locations of human exposure for all meteorological data sets modelled. Review of the dispersion modelling results also indicated that impacts on annual mean NO2 concentrations were predicted to be **negligible** at all locations. There were no predicted 1-hour mean EQS exceedences at any location. As such, overall impacts are considered to be **not significant**. Impacts at relevant ecological sites were also predicted to be **not significant** at the identified designations.”

- How widespread are these sites? Are they being rolled out throughout the Country?
 - o Please see the screengrab below for all of Conrad Energy’s proposed and active sites, comprised of flexible generation (such as Bilsham) as well as battery storage. You will see Bognor Regis is shown below, however this site is no longer being proposed. The flexible generation and storage sites are positioned in places which have the energy demand and infrastructure to require and support the technology. As you will be able to tell, most the sites are located in areas of higher population density/high-energy demand (e.g. outskirts of major cities, manufacturing hotspots in East Anglia etc.) as a key aspect of the technology is to generate at the point of demand instead of several larger energy plants transmitting electricity across the country. By implementing this technology, it supports the transition to renewables by reducing the reliance on the larger generation plants to a point where we no longer require them and can rely on local renewable generation instead (solar/wind/storage and back-up flexible generation). If you want any further information on this please contact me on the number below [REDACTED] and I can go into further detail.

Jonathan Cooper

Project Manager



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a: Suites D&E, Windrush Court, Blacklands Way, Abingdon, OX14 1SY



From: Mark Cullen 

Sent: 21 February 2022 13:39

To: Jonathan Cooper 

Subject: FW: 95888: Pre Commencement Condition Letter - CM/69/21/PL

Hello Jonathan,

No its not to do with conditions. Please see further queries below from Anita the case officer?

Mark

MARK CULLEN MRTPI

Associate



www.alderking.com



From: Anita Gardner <Anita.Gardner@arun.gov.uk>
Sent: 21 February 2022 11:26
To: Mark Cullen [REDACTED]
Cc: Juan Baeza <Juan.Baeza@arun.gov.uk>
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Mark

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To whom it may concern

10/06/2021

Dear Sir or Madam,

We confirm that Conrad Energy has accepted a Quote for a connection for 8.545MW Export and 300kVA Import Gas Generation connection at Cards Road, Sandon, Chelmsford.

As the licensed electricity Distribution Network Operator (DNO) for the area that covers the above site, our core responsibilities are to facilitate connections for new customers to our networks in a timely and efficient manner and to develop and maintain an efficient, coordinated and economical electricity distribution network.

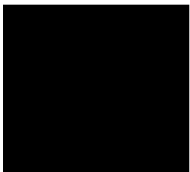
Generation connections have significantly increased over recent years and we now have over 9 GW of distributed generation connected across our three licence areas.

To meet the emerging challenges of a more decentralised electricity system with increased levels of generation, UK Power Networks is transitioning from a DNO to the more active role of a Distribution System Operator (DSO). This means that we are moving from our traditional role as a relatively passive manager of the network, to actively managing the electricity distribution system in real time. Our DSO transition will enable people, communities and businesses to benefit from new technologies, whilst enabling us to continue to provide safe, reliable services for all of our customers.

Whilst we remain agnostic to the technologies looking to connect to our distribution network, we acknowledge that certain technology types connecting to our network can help us to resolve system issues e.g. on voltage instability. Conrad Energy is participating in arrangements that provide resiliency services to UK Power Networks, who are able to call on generation services from Conrad Energy to support the local electricity distribution network. The need for this service is partly triggered by the increasing number of residential and commercial developments, along with increasing demand on the network through the roll out of EV's and increasing electrical demand generally.

If you wish to discuss the connection process in further detail, I would be happy to discuss.

Yours faithfully,



Jeff Lassaline MIET
Project Manager

UK Power Networks | Major Connections

Borehamwood Studios, Unit 5, York Way

Borehamwood, Hertfordshire WD6 1DJ