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James Veaney
Head of Connections and Constraint Management
Ofgem, 9 Millbank, London, SW1P 3GE

14 September 2016

Dear James.

Written response by RES to the Open letter consultation on the Incentive of Connections Engagement, summer 2016.

RES is one of the world's leading independent renewable energy companies working across the globe to develop, construct and operate projects that contribute to our goal of a secure, low carbon and affordable energy future. RES has been an established presence at the forefront of the renewable energy industry for over three decades. Our core activities are the development, design, construction, financing and operation of wind and solar PV projects and we are also active in electricity storage, and transmission. Globally, we have built approximately 10GW of renewable energy generation, including almost 10% of the UK's current wind energy capacity.

We have worked closely with many of the DNOs on their ICE plans, and continue to support distribution connection policy nationally through our vice-chair role on the ENA DG-DNO Steering Group. We continue to strongly welcome the principles of ICE, which we feel has led to evident improvement in the service provided by DNOs. We have embedded your response pro-forma into this letter. We hope the comments contained in our response can be used to continue to improve connections service for 2017 and beyond.

Yours sincerely,

Graham Pannell

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Response template – Incentive on Connections Engagement July 2016

Question		Response					
Al	About you and your work						
1.	What is the name of your company?	RES					
2.	Which DNO's ICE submission is your response related to (see Annex 2 for DNO map)?	Ordered geographically (starting North), we work in all DNO areas except ENW (and London) ENW is therefore the only DNO omitted from this response. We have kept the same numbering in the following questions (e.g. #4 is always WPD).					
	Please indicate clearly in your response to	1. SSE					
	the questions below whether your comments refer to the DNO's plans as a whole, or to one of the DNO's licence	2. SPEN.					
		3. NPg					
	areas.	4. WPD					
	If you wish to provide a response to the ICE submission of more than one DNO,	5. UKPN					
	please use a separate template for each	We've chosen to respond on all of these DNOs in one template. We hope this is not too much					
DNO. of an inconvenience. We look forward to of forthcoming DG Fora events.				discussing in more	e detail with the D	NOs at the	
3.	What type of connection do you generally	Type of conne		Total number of	Total MVA of		
	require? And for each type of connection, how many connection applications, including total MVA (Mega Volt Ampere) of connections have you made in the past year?			connections	connections	_	
		Metered Demand	Low Voltage (LV) Work			<u> </u> -	
		Connections	High Voltage (HV) Work				
		Storage	HV and Extra High Voltage (EHV) Work	Dozens	>200		
			EHV work and above				
		Metered Distributed	LV work				
		Generation (DG)	HV and EHV work	Dozens	>200		
		Wind,					
		Storage,					

Unmetered	Local Authority (LA) work		
Connections	Private finance initiatives (PFI) Work		
	Other work		

Consultation questions

Section 1: Looking Back report 2015-16

We want your views on how well the DNOs have performed over the last year

1. Are you satisfied that the licensee had a comprehensive and robust strategy for engaging with connections stakeholders? Do you consider that the licensee implemented its strategy? If not, are you satisfied that the licensee has provided reasonable and well justified reasons?

Broadly, yes. Our own experience below:

- 1. SSE we welcomed SSE's engagement through Scottish Renewables to build the 15/16 plan. We joined SSE's inaugural steering committee for ICE.
- 2. SPEN we welcomed SSE's engagement through Scottish Renewables to build the 15/16 plan. We were impressed by SPEN's direct interviews with internal and external stakeholders.
- 3. NPg we participated in NPg's open Connections Forum to contribute to the plan.
- 4. WPD we participated in WPD's connections steering group to help develop the plan.
- 5. UKPN we participated in UKPN's open DG forum to contribute to the plan.

2. Are you satisfied that the licensee had a comprehensive work plan of activities (with associated delivery dates) to meet the requirements of its connections stakeholders? Do you consider that the licensee delivered its work plan? If not, are you satisfied that the licensee has provided reasonable and well justified reasons?

Summary responses below, noting issues from the 2015 plans we raised in our letter to you of August 2015.

For brevity, based *only on our own experience of the plans and implementation for EHV & HV export customers*, we have offered a **subjective grading** of the 2015 workplan, scored A-E (where A is good) in three areas:

- *Credibility* is deliverability a key focus, has customer service evidenced the improvements, do we see company-wide 'buy-in'.
- Practicable Are the proposals useful & effective, i.e. smart.
- Ambition Do these proposals go beyond the basics, or beyond what other DNOs do?

e.g. a grade of (AEA) would indicate a very well-intentioned and wildly ambitious but wholly impractical plan.

-please see our letter to you dated 14/8/15 with a detailed review of each plan.

- 1. SSE (AAC) We supported the plan in 2015, although mindful that much was 'catch-up' with other DNOs. We have not seen issues delivering these actions.
- 2. SPEN (BAA) We strongly supported the plan in 2015. We have not seen issues delivering these actions.
- 3. NPg (BBA) We supported the plan in 2015. We have not seen issues delivering these actions.
- 4. WPD (ABA) We strongly supported the plan in 2015, and many actions represented the most ambitious of the DNOs, although we somewhat struggled to follow the KPIs and to find more detail on actions. We have not seen issues delivering these actions.
- 5. UKPN (AAB). We supported the plan in 2015. We have not seen issues delivering these actions.

Do you consider that the	Mostly.
licensee's work plan provided relevant outputs	SPEN's focus on cost and timeliness was particularly welcome, as was the willingness to place numbered targets.
(e.g. key performance indicators, targets etc.)? Are	UKPN's quantitative Service Level Agreements, e.g. to provide timely detailed design information, such as fault
you satisfied that the	level detail, was very welcome.
licensee has delivered these outputs? If not, do you view	We hope that for 16/17 WPD can better tie their KPIs to the specific actions, something that has not been clear to
the reasons provided to be	us.
reasonable and well justified?	
Do you agree that the	Yes
licensee's strategy, activities and outputs have taken into	
account ongoing feedback	
from a broad and inclusive range of connections	
stakeholders? If not, has the	
DNO provided reasonable justification?	

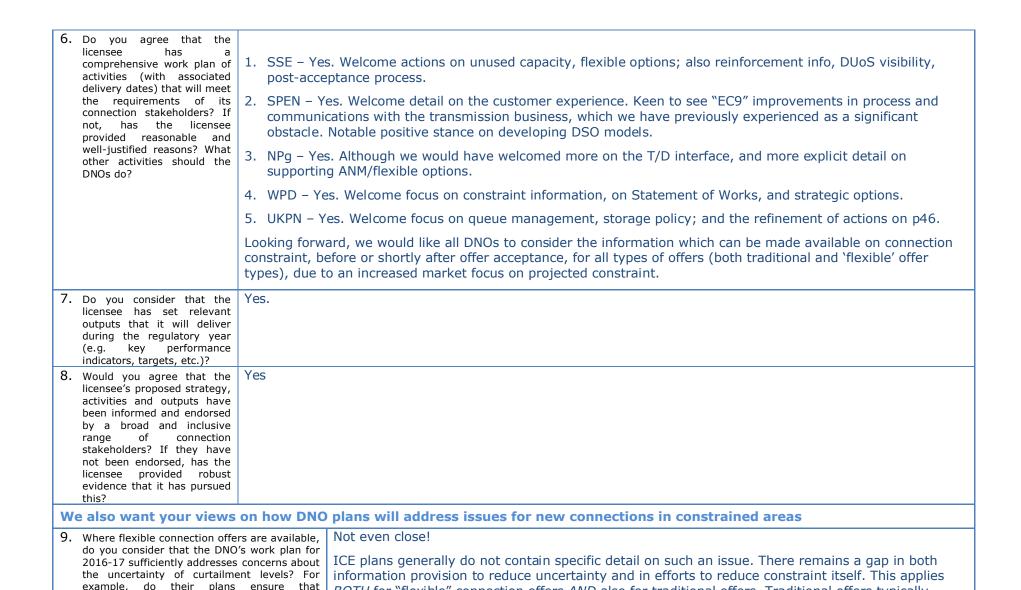
Section 2: Looking Forward plans 2016-17

We want your views on what the DNOs aim to achieve in the coming year

5.	Are you satisfied that the
	licensee has a
	comprehensive and robust
	strategy for engaging with
	connection stakeholders and
	facilitating joint discussions
	where appropriate?
	• • •

Broadly, Yes.

- 1. SSE We note SSE's steering committee as a useful vehicle to shape the plan. We took part in an online survey to help SSE build its plan for 16/17.
- 2. SPEN We welcome the new constrained generation forum.
- 3. NPg Runs a good connections forum.
- 4. WPD We welcome the CCSG. We also warmly welcome the "Owners/Operators Forum" initiative, to gain input from these types of customers who would not normally attend a more likely developer-heavy DG forum and would like to see other DNOs to consider this.
- 5. UKPN Runs a good DG forum. We welcome the additional supervisory steering group initiated in 2016. We commend UKPN's use of a DG mailing list with published progress updates.



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BOTH for "flexible" connection offers AND also for traditional offers. Traditional offers typically

stakeholders have access to the data they

require for an investment decision?	permit the DNO rights of constraint in generic and ill-defined "abnormal network conditions"; these are increasingly materially affecting projects and the perceptions of investors.			
	We have yet to see any evidence that this will be adequately addressed.			
	We acknowledge the ENA's ANM working group consultation on what information customers may expect; however it is not clear that the outcomes will meaningfully address this issue for ANM connectees, it certainly does not address the issue for traditional connection offers.			
10. Where consortium connections are available, do you consider that the DNO's work plan for 2016-17 reflect requirements for clear and detailed information about where, how and under what conditions such projects can proceed?	N/A. We believe this approach will be unlikely to support significant numbers of, if any, new connections, owing to the complexity and challenge in aligning both financing and build-out of multiple projects.			
11. Where consortium connections are available, do you consider that the DNO's work plan for 2016-17 reflect requirements for clear and detailed information about where, how and under what conditions such projects can proceed?	N/A. We believe this approach will be unlikely to support significant numbers of, if any, new connections, owing to the complexity and challenge in aligning both financing and build-out of multiple projects.			
12. Do you consider that the DNO's work plans include appropriate engagement to ensure that network investment plans are well communicated to stakeholders, including when new capacity will become available?	Engagement on network investment plans: With regards "when new network capacity will become available" please see our recent response to your "getting connections in constrained areas" consultation. Heat maps and capacity registers do help, and all 6 DNOs can be commended for improvements in this regard. At the time of the constrained-areas consultation response:			
	 SSE – good heat map and supporting info (for export). Commitment to extend to import capacity is welcome [progress to be checked]. 			
	2. SPEN – excellent heat map and supporting info (some technical gremlins still to iron out).			
	3. NPg – excellent interactive heat map and supporting info.			
	4. WPD – compared to the other DNOs, a poor map, little quantitative info. Capacity Register does not appear sufficiently updated. We note WPD's plans to improve the Capacity Register.			
	However, WPD has worked to communicate regional constraints through letters published on its website, and has published TSO study outcomes, which are all useful in better understanding			

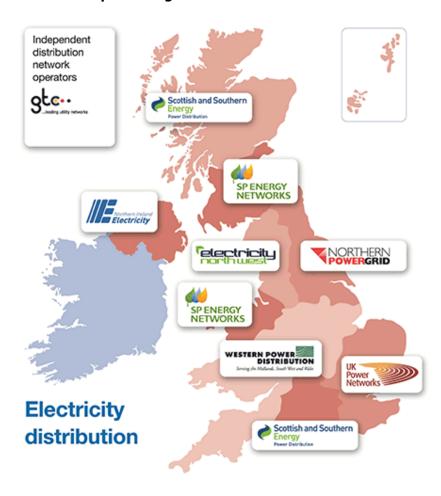
implications for new capacity. 5. UKPN - some confusion as the platform has changed. Useful quantitative info is very hard to get to, if at all. All DNOs offer surgeries and encourage bilateral discussions on capacity for larger sites. We have not suffered obstacles in arranging meetings with DNO designers to discuss capacity, although follow-up actions with DNOs can be very slow – we fear designers' workloads are still heavily weighted to delivering fruitless speculative connection offers in the continued absence of up-front 'A&D' fees. We have experienced a number of occasions of DNO designers not understanding and therefore being unable to discuss important matters of the transmission referral process (statement of works, individual or batched, or Appendix G trials) 13. Do you consider that the DNOs' plans | Please see answer to Q9 above. Information to reduce uncertainty on distribution constraints include appropriate activities to remains poor or very difficult to access. We do note that WPD has an ICE action on this, and that improve, where necessary, the UKPN and SSE have plans to make planned outages more visible to customers. of information provision Please also see answer Q12 above. We consider that "New Capacity" is practically synonymous with constrained areas of the network to "Constrained Areas". provide better data about where connections may be viable? 14. Are there particular additional We support the work all DNOs are undertaking under the banner of "Quicker and More efficient activities or outputs which you Connections", including a focus on unused capacity (both legacy and new connections). Howsoever consider should be included in the detailed in their various ICE plans, it is important that this work remains a priority for 2016/2017. work plan of activities to better We believe that all DNOs would benefit from a continued focus on the transmission / distribution facilitate grid connections? interface (acknowledging that some DNOs have already done so). This would include: • Commit to extend / join / develop the present trials to replace "SoW" process; engage with the ongoing ENA WG and communicate developments to customers, both on process and by providing clarity on capacity (e.g. through improved heat maps). Championing customers' requests in discussions with NGET on available capacity. Commitments to deliver T/D information in a timely manner as possible, with clear routes of contact. Clarifying anything which the DNO is progressing differently from other DNOs.

Appendix – ICE plan 2015/16 summarily compared with our specific concerns from 2015

DNO	Our key ICE plan concerns (2015)	Performance / Comment		
	-please see our letter to you dated 14/8/15			
SSE	i. improve/replace SoW.	i. SEPD in "Apx G" trial, a good start. North Scotland next?		
	ii. communicate Tsm works.	ii. Better info now on heat map. More to do.		
	iii. under-utilised capacity.	iii. (looking for 2016 commitment)		
	iv. technical stds & access.	iv. (looking for 2016 commitment)		
v. more ambition.		v. (look to 2016 plans)		
	vi. network diagrams.	vi. More to do.		
	vii. cost breakdowns.	vii. on request only, but detailed.		
	viii. Wayleaves/Consents.	viii. catching other DNOs. More to do.		
SPEN	i. (DNO-wide) T/D interface.	i. Good work on SoW trials, however much to be done on ANM integration with TO, and the limited resource for contract management; ongoing.		
	ii. (DNO-wide) unused capacity.	ii. Constructive efforts, ongoing.		
	iii. SPEN issues with land rights	iii. Remains a challenge.		
		III. Remains a challenge.		
NPg	i. (DNO-wide) T/D interface	i. (looking for 2016 commitment)		
	ii. (DNO-wide) Unused capacity	ii. Clear action, progress made, ongoing		
	iii. Contracted capacity – update frequency?	iii. (looking for 2016 commitment)		
	iv. ICP responsibilities detail	iv. (looking for 2016 commitment)		
WPD	i. (DNO-wide) T/D interface	i. Good evidence of work with NGET. Looking for further commitments.		
	ii. (DNO-wide) Unused capacity	ii. Future connections addressed. Commitments on legacy sought.		

	iii.	Land rights acquisition.	iii.	Very well addressed.
	iv.	Post-acceptance communication.	iv.	Action states completion; practice tbc.
	V.	Capacity register	V.	Useful tool – but update frequency has yet to meet original aim of monthly.
UKPN	i.	(DNO-wide) T/D interface	i.	Good evidence of work with NGET and interesting plans for 2016+.
	ii.	(DNO-wide) unused capacity	ii.	(looking for 2016 commitment)
	iii.	SLA (e.g. fault level, protection detail)	iii.	Good initiative
	iv.	Mapping tool	iv.	To date, far less useful than maps provided by NPg, SPEN.
	٧.	Adoption agreement options and processes	V.	Progressed well with dedicated workshop

Annex 2 - Map showing DNO licensee areas¹



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¹ Image from Electricity Networks Association (ENA)