

# **Respond: An Innovative Proposition?** *Prepared by Impact Utilities 9 March 2016*



Customer engagement will enable us to take Respond to the market, optimise the proposition and then trial the method





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### "The Method enables a market for the provision of a FLC service"



## $\rightarrow$ Good news!!!

Interim analysis of the customer survey responses **proves** the hypothesis that the **Respond method enables a market** for the provision of an FCL service



A target market has been identified of customers from **nonmanufacturing industries** and those who are **able to constrain their motor or generator** without significant impact (operational/ productivity) for up to 10 minutes. A total of 82 I&C demand and DG customers across GB participated in the customer survey during October 2015 to January 2016





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A suitable individual identified and emailed the survey electronically n= 303 in total.

Telephone screened to ensure the organisation (or the organisation to which they provide an electricity service) met key criteria to provide a FCL service

Electricity North West provided customer data n= 1639 in total Initial analysis conducted on responses from 82 I&C demand and DG customers across GB October 2015 – January 2016





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The customer survey assessed appetite to engage in FCL service contract, and at what price



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Industry classification.

Back ground

Largest single AC rotating machine or the largest combination of rotating plant connected to a common circuit breaker.

Implications of the equipment being constrained (disconnected) for up to 10 minutes.

Introduction FCL service concept Video, analogy, frequently asked questions (FAQ) document and a concept board.

Perceptions, appeal, organisations likelihood to consider take up, drivers and barriers.

Stated Preference Exercise Customers selected a preferred option from a pair of possible FCL service contract scenarios (x12)

Optimum price point, payment method and contract length derived.

Overall <u>appeal</u> of the FCL service is relatively low at a total level... however significantly higher amongst the 'target market'







Q17 Overall, how **appealing** do you find this new Respond FCL service concept for your organisation? Please use a scale of 1 to 7 where 1 is 'not at all appealing' and 7 is 'very appealing'?

37% indicated that they would <u>recommend</u> their organisation <u>considers</u> an FCL service agreement (prior to financial reward information)





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Q19 You may not have responsibility or influence in your company's commercial/contractual decisions. However, given what you know about the new Respond FCL service concept <u>so far</u>, how likely would you be to recommend that your organisation **considers opting into a new commercial contract**. Please use a scale of 1 to 7 where 1 is 'Not at all likely' and 7 is 'Very likely'

Financial rewards are the most influential driver of indicative take up, with minimised disruption to the electricity network also important



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Q15 What do you perceive to be the top five *benefits to your organisation* of signing up to the new Respond FCL service concept?

Concern over disruption to business productivity and losses/waste arising from the constraint of a generator or motor is the biggest barrier to providing an FCL service





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Q16 Thinking specifically about your organisation's generator / CHP or rotating motor, what do you perceive the main <u>barriers/risks</u> to your company of signing up to the new electricity Respond FCL service concept, if any?

The trade-off exercise introduced indicative pricing structures and asked customers to choose between a series of 12 pairs of contracts



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#### The Respond FCL service 'contracts' were constructed from the following components:

Type of contract	PPE (pay per event)	Pre paid						
Maximum number of events (constraints to equipment) in one year	1	2	3	4	5	6	7	8
Length of contract (years)	1 year	2 years	3 years					
Level of financial reward	90%	95%	100%	105%	110%			

# To evaluate the appeal of different contract options, a base case scenario was applied, against which all variants could be benchmarked:

#### Base case scenario

- One year contract
- Maximum of one of event per year
- Rate paid by contract 100%
- Pre-paid (fixed per contract retainer, paid in advance)/Pay as you go payment per event PPE payment methods.

# Factors involved in calculating financial rewards



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- The base price point was established using a calculation based on Ofgem's Quality of Service Incentives (QUOS) schemes figure.
- A £ value was calculated for a 10 minute constraint per MW of demand or generational capacity
- These are the constants used in the price calculation:

Technical factor	Figures
Number of ENWL customers	2.4M
ENWL winter max demand	4.2GW
Max demand per customer	1.75kW
1 customer interruption	£12.34
1 customer hour lost	£17.81

- (Size of manageable demand kW / 2 \* Value of a|£2kw/h \* Duration/Restart time / 60) \* Number of times it can be used in a year
- Payment options presented to respondents were based on the size of relevant equipment they had specified earlier in the survey, on the basis of contribution to fault current.

Take up of the FCL service is significantly higher amongst the target market





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#### Stated Preference Analysis : Take-up of FCL service - base scenario



The optimal duration for an FCL service contract is likely to be one year



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#### Stated Preference Analysis : Take-up of FCL service by length of contract



 1 year contract, Maximum of 1 of event (constraints to equipment) in one year, Rate paid by contract – 100%, Only one contract available Significant gains in take-up can be achieved by offering increased PPE financial rewards (+10%)



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#### Stated Preference Analysis : Sensitivity to value of payment



- 1 year contract
- Maximum of 1 of event (constraints to equipment) in one year
- Rate paid by contract 100%
- Only one contract available

	90%	95%	100%	105%	110%
PPE (per event per annum)	£3,334	£3,519	£3,704	£3,890	£4,075
Pre Paid (per event per annum)	£1,667	£1,760	£1,852	£1,945	£2,037
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Take-up reaches 34% amongst the target market if offered PPE at 110% for one year





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#### Stated Preference Analysis : Sensitivity to value of payment



CHP/Motor 10 minute		Ро	tential Take	Up		
<b>constrained significant Ok</b> Base size: 21	19% 2 <mark>2%</mark>	25%	25% 28%		34%	
		23%	27%	30%	30%	
1 year contract Maximum of 1 of event (constraints to equipment) in one year	90%	95%	100%	105%	110%	PPE Pre Paid

Rate paid by contract – 100%

Only one contract available

Further information requirements of individual customers are influenced by the nature of their organisation and their specific processes

**Tailored information** 





Constraint of equipment	Will there be notice of the supply being cut off and going back on? How long would this be? What times of day/ year would this occur if needs be?
Financial Rewards	How are they calculated? Do they depend on frequency and length of faults?
Installation, maintenance and equipment	Who would look after the equipment installed to make Respond possible? What costs could this have?
Benefits of proposition	Questioning the risk and whether the benefits outweigh the risk to the company and the equipment. What does Respond do for the company?
Damage to equipment	Some equipment needs turning on steadily or with engineers present, rather than via a 'on/off' method which may cause damage. What would be the process for switching back on?

Q32 If you were to have a face to face or telephone meeting with Electricity North West to discuss the FCL service and commercial contracts in more detail, what would be your main questions/queries?

# Examples of questions for ENW



Q32 If you were to have a face to face or telephone meeting with Electricity North West to discuss the FCL service and commercial contracts in more detail, what would be your main questions/queries?

## Interest in finding out more about Respond



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# **54%**

would like to know more about participating in the Respond FCL service trial

## 80%

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of the overall sample would like to receive the results and data of the Respond FCL survey

# Next steps



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# Thank you for listening.

