



Integrated Single Electricity Market (I-SEM)

High Level Design for Ireland and Northern Ireland from 2016

Consultation Response Template

5 February 2014

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1 PURPOSE OF THIS DOCUMENT

1.1 PURPOSE AND STRUCTURE OF THIS DOCUMENT

- 1.1.1 This supplementary document provides a template for responses to the consultation document on implementing a new High Level Design ('HLD') for the Integrated Single Electricity Market (I-SEM) in Ireland by the end of 2016. We request all responses to the consultation are submitted in this template, and in **Microsoft Word** format.
- 1.1.2 This template contains the questions presented in the consultation document.
- 1.1.3 Responses to the Consultation Paper are requested by 17.00 4th April 2014. Following a review of the responses to this paper the SEM Committee will publish its draft decision on the proposals set out in this paper in June 2014.
- 1.1.4 Responses should be sent to Jean-Pierre Miura (JeanPierre.Miura@uregni.gov.uk) and Philip Newsome (pnewsome@cer.ie). Please note that the SEM Committee intends to publish all responses unless marked confidential¹.

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¹ While the SEM Committee does not intend to publish responses marked confidential please note that both Regulatory Authorities are subject to Freedom of Information legislation.

2 CONSULTATION QUESTIONS

2.1 RESPONDENT DETAILS

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MAIN INTEREST IN	DAE currently operate a DSU; the changes could have a significant impact on
CONSULTATION	the future of DSUs in Ireland
	•

2.2 GENERAL COMMENTS

Dalkia Alternative Energy (DAE) welcomes the opportunity to respond to the CER and UREGNI consultation document regarding the Integrated Single Electricity Market (I-SEM) High Level design for Ireland and Northern Ireland from 2016.

DAE currently operates a Demand Side Unit (DSU) and also a number of Combined Heat and Power (CHP) sites throughout Ireland. This response's primary focus will be on the potential impact the changes to the SEM will have on the operation of DSUs. The impact to the CHP portion of our business is not deemed likely as the de-minimus level is 10MW. We recommend that this level is not reduced as part of any I-SEM changes.

Introduction

The SEM has been effective thus far in promoting competition and allowing small independent generators to join the market, however there is potential that with the introduction of the I-SEM, unintended barriers to participation may arise. This may not have as great an impact on larger participants; however for smaller existing/new independent generators, these barriers may lead to significant challenges.

Since the introduction of the SEM, DSUs and aggregators on the island of Ireland have joined the market and are beginning to gain traction and grow with purpose. These aggregators by their nature are small, with limited resources, therefore any significant changes to the current SEM, could have negative consequence on their costs and impact their long term viability.

Any discussion on the Capacity Remuneration Mechanism (CRM) must be conscious of the importance of the CRM to DSUs and aggregators. Changes to the CRM must be mindful of the criticality of this payment to these types of participants. The changes to the CRM outlined in the

various options detailed in the document could, to varying degrees negatively impact DSUs and aggregators.

The final makeup of the I-SEM should of course be compliant with the Target Model, but should not lead to excessive cost challenges for smaller independent generators, introduce barriers to new entrants and existing participants or ultimately lead to smaller generators leaving the market.

Energy Market Options

The current SEM arrangement has in broad terms worked since its inception, and we feel that any significant changes that occur as part of the I-SEM implementation has the potential to undo much of the gains achieved. Any proposed changes to the current SEM should not dilute the current level of market transparency, introduce barriers to new and existing entrants and create cost challenges for smaller generators. There is a risk that large incumbent participants could gain greater market power with some of the options proposed.

There is however insufficient detail in the document to fully quantify the impact the various options will have on DSUs and aggregators, nevertheless of the four options, Option 4 appears to be the most suitable. This option closely resembles the existing SEM arrangement and we feel retaining as much of the current SEM arrangement, should be the overarching goal of this process. The current SEM has been broadly successful and the implementation of this option is likely to be the least intrusive compared to the other three. This coupled with a strong CRM that does not discriminate against DSUs and aggregators, and which operates in tandem with the energy market, would be the most beneficial approach.

The option chosen as the basis for the final HLD should not introduce barriers to new entrants or smaller participants. Significant changes to existing SEM make up should be minimised a much as possible and that the changes are not to the detriment of small independent generators, DSUs and aggregators.

Capacity Remuneration Mechanism

We feel that the retention of a capacity payment mechanism is critical to the ongoing development of DSU's and aggregators on the island of Ireland. Any changes to the CRM should not adversely impact DSU's and aggregators, considering that these types of generators rely on the CRM as their primary revenue source. The CRM is the single most important element in the sustainability of DSUs and aggregators.

Priced based mechanisms have the potential to meet the needs of participants including DSUs and aggregators. These mechanisms are similar to the payment mechanism currently in place in the SEM, which has shown to be effective in encouraging investment in capacity and ensuring availability of generation at times of scarcity. The Short Term mechanism may provide the ability for demand to manage its available capacity more efficiently and ensure it's available at times of scarcity. It could also lead to increased price volatility coupled with a lack of forward price certainty, creating a potential barrier to new entrants. The Long Term mechanism will provide better price stability and

price signals to ensure income certainty for all participants and new entrants, it is also closely resembles the existing CRM in the SEM which has thus far been effective.

The Quantity based mechanism would not be a good fit for DSU and aggregators because the ability for DSUs to make long term commitments on capacity is challenging. DSUs by their nature have varying capacity over the course of the day, week and year. The document mentions potential penalties for non-delivery of contracted quantities, in the case of DSUs, this would be unfair.

There is insufficient detail on the Strategic Reserve option and how it would work, especially in relation to DSUs and aggregators, to allow for a thorough assessment of its potential impact. It is a mechanism that is currently utilised in other jurisdictions and has proven to be successful, but without more detail on how it would work, we cannot give a firm opinion on the option.

The current CRM has been effective in promoting new entrants and dampening energy price volatility, however if significant changes to the current arrangements are necessary then we take the view that generation which is flexible, such as DSUs and aggregators should be prioritised. The CRM is an integral element in the viability of DSU and aggregators. Their ongoing involvement in the market is critical to the secure operation of the electricity system. It is acknowledged throughout the consultation that flexible generation will enable the TSO to better manage the high levels of intermittent generation connected to the system. In order to promote the development of flexible generation there should be appropriate financial signals.

If the CRM moves away from the current catch all mechanism to a targeted mechanism then any changes should be biased in favour of generators that are flexible, such as DSUs. Furthermore, any changes to the CRM must be cognisant of the fact that DSUs by their nature have variable capacity, and should not be penalised for said variability. Of all the CRM options discussed in the document, we view the Long Term price based mechanism as the most appropriate method.

DSUs and aggregators are becoming an important cog in the secure operation of the electricity system. It would be an unwelcome consequence of this process, that their potential is curtailed by changing the CRM to such a degree, as to make their long term viability questionable.

Question		Answer
1.	Which option for energy trading arrangements would be your preferred choice for the I-SEM market, and why?	There is insufficient detail in the document to fully quantify the impact the various options will have on DSUs and aggregators, nevertheless of the four options; Option 4 appears to be the most suitable. This option closely resembles the existing SEM arrangement and we feel retaining as much of the current SEM arrangement, should be the overarching goal of this process. The current SEM has been broadly successful and the implementation of this option is likely to be the least intrusive compared to the other three.
2.	Is there a requirement for a CRM in the revised HLD, and why?	We feel that the retention of a capacity payment mechanism is critical to the ongoing development of DSU's and aggregators on the island of Ireland. Any changes to the CRM should not adversely impact DSU's and other aggregators, considering that these types of generators rely on the CRM as their primary revenue source. The CRM is the single most important element in the sustainability of DSUs and aggregators. The CRM should operate in tandem with the energy market
3.	If there is a requirement for a CRM in the revised HLD, what form would be your preferred choice for the I-SEM, and why?	Of all the CRM options discussed in the document, we view the Long Term price based mechanism as the most appropriate method. The Long Term mechanism will provide better price stability and price signals to ensure income certainty for all participants and new entrants, it is also closely resembles the existing CRM in the SEM which has thus far been effective.

2.3 PURPOSE OF THE DOCUMENT (SECTION 1)

2.4 TOPICS FOR THE HIGH LEVEL DESIGN OF ENERGY TRADING ARRANGEMENTS (SECTION 4)

Question		Answer
4. Ar	re these the most	
im	portant topics	
to	consider in the	
de	escription of the	
HL	D for the revised	
en	nergy trading	
arı	rangements for	
the	e single	
ele	ectricity market	
on	n the island of	
Ire	eland?	
5. Ar	e there other	
as	pects of the	
Eu	ropean Internal	
Ele	ectricity Market	
tha	at should form	
ра	art of the process	
of	the High Level	
De	esign of energy	
tra	ading	
arı	rangements in	
the	e I-SEM?	

1		
Questi	on	Answer
6.	What evidence can	
	you provide for the	
	assessment of the	
	HLD options with	
	respect to security	
	of supply,	
	efficiency, and	
	adaptability?	

2.5 SUMMARY OF THE OPTIONS FOR ENERGY TRADING ARRANGEMENTS (SECTION 5)

Overstien		American
		Answer
7.	Are there any	
	changes you would	
	suggest to make	
	the Adapted	
	Decentralised	
	Market more	
	effective for the I-	
	SEM (for instance,	
	a different choice	
	for one or more of	
	the topics or a	
	different topic	
	altogether)?	
8.	Do you agree with	
	the qualitative	
	assessment of the	
	Adapted	
	Decentralised	
	Market against the	
	HLD criteria? If	
	not, what changes	
	to the assessment	
	would you suggest	
	(including the	
	relative strengths	
	and weaknesses of	
	an option)?	
9.	How does the	
	Adapted	
	Decentralised	
	Market measure	
	against the SEM	
	Committee's	
	primary duty to	
	protect the long	
	and short term	
	interests of	
	consumers on the	
	island of Ireland?	

2.6 ADAPTED DECENTRALISED MARKET (SECTION 6)

Question	Answer
10. Are there any	
changes you would	
suggest to make	
the Mandatory Ex-	
post Pool for Net	
Volumes more	
effective for the I-	
SEM (for instance,	
a different choice	
for one or more of	
the topics or a	
different topic	
altogether)?	
11. Do you agree with	
the qualitative	
assessment of	
Mandatory Ex-post	
Pool for Net	
Volumes against	
the HLD criteria? If	
not, what changes	
to the assessment	
would you suggest	
(including the	
relative strengths	
and weaknesses of	
an option)?	
12. How does the	
Mandatory Ex-post	
Pool for Net	
Volumes measure	
against the SEM	
Committee's	
primary duty to	
protect the long	
and short term	
interests of	
consumers on the	
island of Ireland?	

2.7 MANDATORY EX-POST POOL FOR NET VOLUMES (SECTION 7)

Question	Answer
13. Are there any	
changes you would	
suggest to make	
the Mandatory	
Centralised Market	
more effective for	
the I-SEM (for	
instance, a	
different choice for	
one or more of the	
topics or a	
different topic	
altogether)?	
14. Do you agree with	
the qualitative	
assessment of	
Mandatory	
Centralised Market	
against the HLD	
criteria? If not,	
what changes to	
the assessment	
would you suggest	
(including the	
relative strengths	
and weaknesses of	
an option)?	
15. How does the	
Mandatory	
Centralised Market	
measure against	
the SEM	
Committee's	
primary duty to	
protect the long	
and short term	
interests of	
consumers on the	
island of Ireland?	

2.8 MANDATORY CENTRALISED MARKET (SECTION 8)

Question	Answer
16. Are there any	
changes you would	
suggest to make the	
Gross Pool – Net	
Settlement Market	
more effective for	
the all I-SEM (for	
instance, a different	
choice for one or	
more of the topics	
or a different topic	
altogether)?	
17. Do you agree with	
the qualitative	
assessment of Gross	
Pool – Net	
Settlement Market	
against the HLD	
criteria? If not,	
what changes to the	
assessment would	
you suggest	
(including the	
relative strengths	
and weaknesses of	
an option)?	
18. How does the Gross	
Pool – Net	
Settlement Market	
measure against the	
SEM Committee's	
primary duty to	
protect the long and	
short term interests	
of consumers on the	
island of Ireland?	

2.9 GROSS POOL – NET SETTLEMENT MARKET (SECTION 9)

Question	Answer
19. What are the rationales for and against the continuation of some form of CRM as part of the revised trading arrangements for the I- SEM?	Encouraging the development of innovative and flexible generating sources is vital to the challenging task of enabling large levels of renewable generation to connect to the system. Without the financial certainty that the CRM provides, developers of flexible generation will find it difficult to obtain capital funding to develop new generations, which in turn will limit the ability of the TSO to adequately manage the system and ensure security of supply requirements.
20. Are these the most important topics for describing the high level design of any future CRM for the I-SEM?	Yes

2.10 CAPACITY REMUNERATION MECHANISMS (CHAPTER 10)

Question	Answer
21. Are there any	
changes you would	
suggest to make	
the design of a	
Strategic Reserve	
mechanism more	
effective for the I-	
SEM (for instance	
a different choice	
for one or more of	
the topic?)	
22. Do you agree with	
the initial	
assessment of the	
strengths and	
weaknesses of a	
Strategic Reserve	
Mechanism? If	
not, what changes	
to the assessment	
would you suggest	
(including the	
strengths and	
weaknesses of an	
option relative to	
the others)?	
23. Would a Strategic	
Reserve	
Mechanism work	
or fit more	
effectively with a	
particular option	
for the energy	
trading	
arrangements. If	
so, which one and	
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Question	Answer
24. Are there any	
changes you would	
suggest to make	
the design of a	
Long-term price-	
based CRM	
effective for the I-	
SEM (for instance	
a different choice	
for one or more of	
the topic?)	
25. Do you agree with	Yes
the initial	
assessment of the	
strengths and	
weaknesses of a	
Long-term price-	
based CRM? If	
not, what changes	
to the assessment	
would you suggest	
(including the	
strengths and	
weaknesses of an	
option relative to	
the others)?	
26. Would a Long-	
term price-based	
CRM work or fit	
more effectively	
with a particular	
option for the	
energy trading	
arrangements. If	
so, which one and	
why?	

2.12 LONG-TERM PRICE-BASED CRM (CHAPTER 10.9)

Question	Answer
27. Are there any	
changes you would	
suggest to make	
the design of a	
Short-term price-	
based CRM	
effective for the I-	
SEM (for instance	
a different choice	
for one or more of	
the topic)?	
28. Do you agree with	
the initial	
assessment of the	
strengths and	
weaknesses of a	
Short-term price-	
based CRM? If	
not, what changes	
to the assessment	
would you suggest	
(including the	
strengths and	
weaknesses of an	
option relative to	
the others)?	
29. Would a Short-	
term price-based	
CRM work or fit	
more effectively	
with a particular	
option for the	
energy trading	
arrangements. If	
so, which one and	
why?	

2.13 SHORT-TERM PRICE-BASED CRM (CHAPTER 10.10)

30. Are there any changes you would suggest to make the design of a Quantity-based Capacity Auction CRM effective for the I-SEM (for instance a different choice for one or more of the topic)? 31. Do you agree with the initial assessment of the strengths and weaknesses of a Quantity-based Capacity Auction CRM? If not, what changes to the assessment would you suggest (including the strengths and
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assessment would you suggest (including the strengths and
you suggest (including the strengths and
(including the strengths and
strengths and
weaknesses of an
option relative to
the others)?
32. Would a Quantity-
based Capacity
or fit more
effectively with a
particular option
for the energy
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an angements. If
why?

2.14 QUANTITY-BASED CAPACITY AUCTION (CHAPTER 10.11)

Question	Answer
33. Are there any	
changes you would	
suggest to make	
the design of a	
Quantity-based	
Capacity	
Obligation CRM	
effective for the I-	
SEM (for instance	
a different choice	
for one or more of	
the topic)?	
34. Do you agree with	
the initial	
assessment of the	
strengths and	
weaknesses of a	
Quantity-based	
Capacity	
Obligation CRM?	
If not, what	
changes to the	
assessment would	
you suggest	
(including the	
strengths and	
weaknesses of an	
option relative to	
the others)?	
35. Would a Quantity-	
based Capacity	
Obligation CRM	
work or fit more	
effectively with a	
particular option	
for the energy	
trading	
arrangements. If	
so, which one and	
why?	

2.15 QUANTITY-BASED CAPACITY OBLIGATION (CHAPTER 10.12)

	r
Question	Answer
36. Are there any	
changes you would	
suggest to make	
the design of a	
Centralised	
Reliability Option	
CRM effective for	
the I-SEM (for	
instance a	
different choice for	
one or more of the	
topic)?	
37. Do you agree with	
the initial	
assessment of the	
strengths and	
weaknesses of a	
Centralised	
Reliability Option?	
If not, what	
changes to the	
assessment would	
you suggest	
(including the	
strengths and	
weaknesses of an	
option relative to	
the others)?	
38. Would a	
Centralised	
Reliability Option	
work or fit more	
effectively with a	
particular option	
for the energy	
trading	
arrangements. If	
so, which one and	
why?	

2.16 CENTRALISED RELIABILITY OPTIONS (CHAPTER 10.14)

Question	Answer
39. Are there any	
changes you would	
suggest to make	
the design of a	
Decentralised	
Reliability Option	
CRM effective for	
the I-SEM (for	
instance a	
different choice for	
one or more of the	
topic)?	
40. Do you agree with	
the initial	
assessment of the	
strengths and	
weaknesses of a	
Decentralised	
Reliability Option?	
If not, what	
changes to the	
assessment would	
you suggest	
(including the	
strengths and	
weaknesses of an	
option relative to	
the others)?	
41. Would a	
Decentralised	
Reliability Option	
work or fit more	
effectively with a	
particular option	
for the energy	
trading	
arrangements. If	
so, which one and	
why?	

2.17 DECENTRALISED RELIABILITY OPTIONS (CHAPTER 10.15)