



Integrated Single Electricity Market (I-SEM)

High Level Design for Ireland and Northern Ireland from 2016 Consultation Response



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.

Jean-Pierre Miura	Philip Newsome
Utility Regulator	Commission for Energy Regulation
Queens House	The Exchange
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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

COMPANY	Indaver Ireland
CONTACT DETAILS	Claire Downey: claire.downey@indaver.com / Ph: +353 1 6972845
MAIN INTEREST IN	Indaver owns and operates a hybrid biomass generator unit in Duleek, Co.
CONSULTATION	Meath with registered capacity of 16MW. We also operate a "light" supply
	company.

2.2 GENERAL COMMENTS

Indaver Ireland welcomes the opportunity to respond to the Consultation on the High Level Design for Ireland and Northern Ireland from 2016. As members of the Electricity Association of Ireland (EAI) we generally support the EAI submission.

Specifically, we support the view that the primary consideration of the re-design should be to deliver efficient cross border trade. We also support the EAI view that renewable generation must be central to market design and that it will be important in considering the interaction with DS3 that generators do receive remuneration for services demanded (in particular flexibility services) i.e. non-remuneration is avoided.

In addition to this we would like to emphasise the importance of the HLD addressing the following key areas:

- Supporting the priority dispatch of renewable plant. Currently it is not clear how each HLD would facilitate priority dispatch.
- Providing a clear REFIT reference price,
- Providing a balancing market arrangement where pricing is not excessively punitive,
- Facilitating transparent pricing and non-portfolio player trading,
- Providing sufficient certainty and clarity regarding non energy balancing.

Indaver Ireland operates a centrally dispatched 16MW thermal waste-to-energy plant in Duleek, Co. Meath. Although we may develop further facilities in the future (one to two on the island) Indaver could not be described as a portfolio player in the future market.

The Meath waste-to-energy facility generates over 50% renewable electricity, which receives the REFIT subsidy, while the remainder is exposed to market pricing in the current SEM.

Waste-to-energy plants are both controllable and predictable in a similar fashion to a typical thermal generator. However, where they differ is that their primary objective is to treat waste. As waste is the main revenue source, and the plants are subject to stringent environmental controls, the furnace

and boiler is designed to operate continuously. If for any reason it is not possible to export power to the grid, a turbine bypass diverts steam to air cooled condensers which dissipate the energy to atmosphere. This ensures that waste treatment can continue (as this is the priority) at the same throughput regardless of the level of electrical output. The bypass enables the plant to be highly flexible. However, a regular requirement to bypass the turbine impacts on the overall efficiency and viability of the plant. The viability of these facilities is critical for meeting waste policy objectives (e.g. diverting waste – or the "fuel" – from landfill) and they are an important part of the Irish waste management strategy.

The typical operating capacity factor for such a facility is over 93% including planned outages. Although the plants are predictable there is some variation in real time generation due to variability in the calorific content of our fuel (waste). This can lead to up to 10% variation on the output from the plant compared with day ahead / intra day forecast.

Question		Answer
1.	Which option for energy trading arrangements would be your preferred choice for the I-SEM market, and why?	Of the designs proposed, we believe that Option 3 is the most likely to provide the correct signals to encourage the efficient use of the interconnectors. We also favour the price transparency and opportunity to participate in price formation available in this option (by the mandatory nature and with unit based bidding). However, we would have reservations about the possibility of punitive pricing in the balancing market where bidding of INC & DEC is not regulated.
2.	Is there a requirement for a CRM in the revised HLD, and why?	Yes We support the EAI view that energy only markets do not adequately remunerate all necessary market components in systems with high renewable penetration. In a market where generators are called upon to provide significant flexibility as is the current situation in Ireland, the capacity mechanism is important in covering volume risk both for existing capacity (to ensure continuity of supply) and to encourage long term investment (to ensure adequacy).
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?	We support the quantity based CPM of capacity auctions (Option 3). In our view, quantity based CPMs reward predictable and reliable plant on the system while providing sufficient incentive to invest in new, flexible capacity. The fit of a quantity based mechanism within the new HLD is clearer than the fit of a price based mechanism, where there is no longer any bidding code of practice. We do not support reliability options (Options 5a and 5b) as they have potential to be a liability in the current system with high wind

2.3 PURPOSE OF THE DOCUMENT (SECTION 1)

variability.

It is very important that any CPM must not provide perverse incentives to import over the interconnector due to price differential as is currently the case. The ability to include capacity payments in ex ante bidding appears to address this.

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

Question		Answer
ir to d H e a t t t c	re these the most nportant topics o consider in the escription of the ILD for the revised nergy trading rrangements for ne single lectricity market n the island of reland?	We would also seek further clarity on arrangements for non energy balancing.
a: E th p o D tr	re there other spects of the uropean Internal lectricity Market nat should form art of the process f the High Level lesign of energy rading rrangements in ne I-SEM?	

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

Question		Answer
6.	What evidence can	We support the EAI assertion that there is sufficient evidence from
	you provide for the	Europe indicating that long-term security of supply is not delivered by
	assessment of the	any of the trading arrangements ergo the CPM. Furthermore, as noted
	HLD options with	by EAI, there is an increasing trend indicating that short-term
	respect to security	availability may also become an issue as existing plant are no longer
	of supply,	being adequately remunerated and will be forced to close / be
	efficiency, and	decommissioned / be moth-balled.
	adaptability?	

2.6	ADAPTED DECENTRALISED MARKET ((SECTION 6)
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Question		Answer
7. Are there any		We do not support Option 1 as it lacks liquidity and there is too much
	changes you would	uncertainty regarding regulatory measures required to promote this.
	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?	

Question	Answer
10. Are there any	We support the EAI assertion that Option 2 is not a workable, practical
changes you would	design
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)?	 We support Option 3 as it Is likely to provide for efficient trading on the interconnector Provides full price transparency and the best opportunity for generation to participate in price formation Provides a clear REFIT reference price in the DAM Facilitates unit based trading We would have reservations about the lack of clarity on bidding principles relating to the INC & DEC price formation in the balancing market. In the current proposal it may be possible, for example, for marginal generation to submit punitive pricing into the balancing market where it is known to be short. A two tier balancing price may help support renewables participating in this market in managing the cost of forecast error. Clarity is also sought regarding how the REFIT reference price would be determined. Generators trading in the DAM may achieve a very different clearance price to those participating in the balancing market, which could have an important effect on the PSO pot. Finally, we would seek further detail regarding non energy balancing. The only cause for curtailment at present of the Meath WtE is excess generator capacity (high wind & import on the interconnector).
 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 	
15. How does the Mandatory Centralised Market measure against the SEM Committee's primary duty to	

2.8 MANDATORY CENTRALISED MARKET (SECTION 8)

protect the long
and short term
interests of
IIILEI ESIS UI
consumers on the
island of Ireland?

2.9 GROSS POOL – NET SETTLEMENT MARKET (SECTION 9)

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)?	 We agree with the EAI submission that Option 4 is not a workable, practical design because it; Is unlikely to produce sufficient incentives for participants to actively engage in ex-ante timeframes Could result in inefficient interconnector flows Could create volume risk for generators if not scheduled where the SMP from the ex-post pool exceeds the strike price of a CfD the generator has entered into.
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?	

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?	As noted above, we support the EAI view that energy only markets do not adequately remunerate all necessary market components in systems with high renewable penetration.
20. Are these the most important topics for describing the high level design of any future CRM for the I-SEM?	

2.11 STRATEGIC RESERVE (CHAPTER 10.7)

Question	Answer
21. Are there any	We do not support the strategic reserve option for CPM. As noted by
changes you would	the EAI, this option is not appropriate for a small, relatively isolated
suggest to make	system with exceptional levels of variable generation.
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
	why?

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

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	
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?

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

Question	Answer
27. Are there any	
changes you we	ould
suggest to mak	e
the design of a	
Short-term pric	e-
based CRM	
effective for the	
SEM (for instan	
a different choi	ice
for one or more	e of
the topic)?	
28. Do you agree w	<i>/</i> ith
the initial	
assessment of t	the
strengths and	
weaknesses of	
Short-term pric	
based CRM? If	
not, what chan	-
to the assessme	
would you sugg	<u>jest</u>
(including the	
strengths and	
weaknesses of	
option relative	to
the others)?	
29. Would a Short-	
term price-base	
CRM work or fi	
more effectivel	
with a particula	ar
option for the	
energy trading	
arrangements.	
so, which one a	ind
why?	

Question	Answer
30. Are there any changes you would	We support the quantity based capacity auction mechanism as we fee this would most effectively incentivise existing and future capacity to
suggest to make	be available and reliable.
the design of a	
Quantity-based	As noted by the EAI, however, this must be combined with robust
Capacity Auction	market power mitigation measures and tailored to accommodate
CRM effective for	wind.
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	
weaknesses of an	
option relative to	
the others)?	
32. Would a Quantity-	As noted above, we feel that a quantity based CPM is a clearer fit in
based Capacity	the various HLD options than a price based CPM in the absence of a
Auction CRM work	bidding code of practice.
or fit more	
effectively with a	
particular option	
for the energy	
trading	
arrangements. If	
so, which one and	
why?	

2.14 QUANTITY-BASED CAPACITY AUCTION (CHAPTER 10.11)