

CMP242 - Workgroup 4



Monday 10 August 2015



1. Introductions





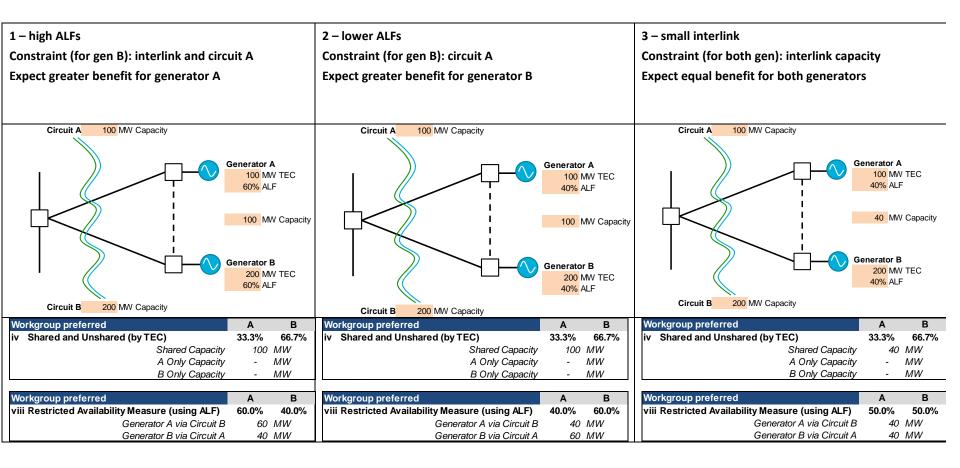
2. Review Workgroup Consultation Responses



Workgroup Consultation Responses

- Three responses were received:
 - Aled Moses Dong Energy
 - Joe Dunne SP Renewables
 - Garth Graham SSE

Worked Examples from DONG's response





Outstanding Issue: Extension of formulae to more than 2 interlinks



What is an ALF

A concept from CMP213 (Transmit)

Annual Local Factor for a given year:

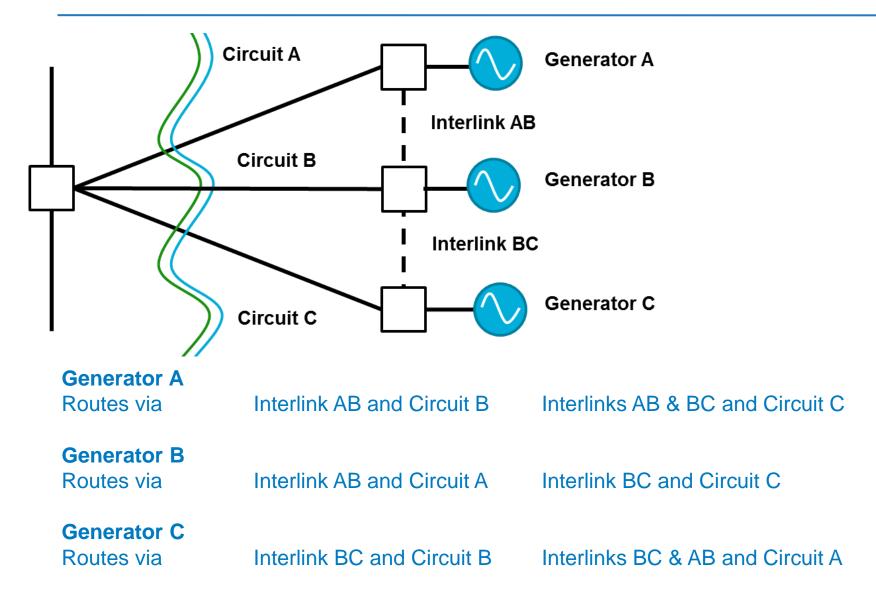
 $\Sigma_{\text{All SPs}} \max$ (FPN, Metered Output)

 $0.5 \times \Sigma_{\text{All Settlement Periods}}$ TEC

- Once all five charging year ALFs have been calculated for the individual Power Station they are compared, and the highest and lowest figures are discarded. The final ALF, to be used for transmission charging purposes, is calculated as the average of the remaining three ALFs
- Where output data is not available for a Power Station, including for new Power Stations and emerging Power Station technologies, generic data for the appropriate generation plant type will be used.

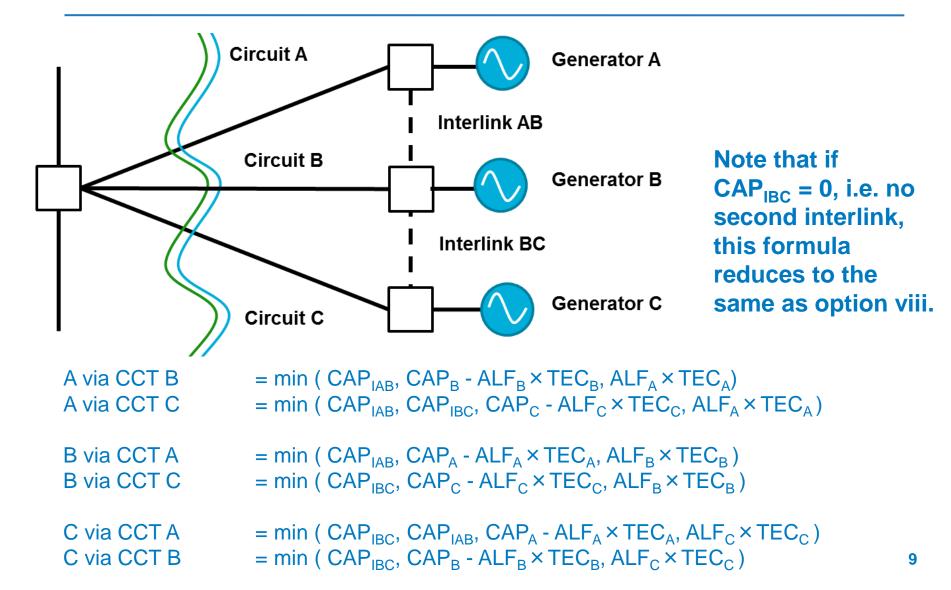
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Q10. The situation of more than two interlinks



Note. An error was identified in this approach at the Workgroup. A replacement approach will be prepared.

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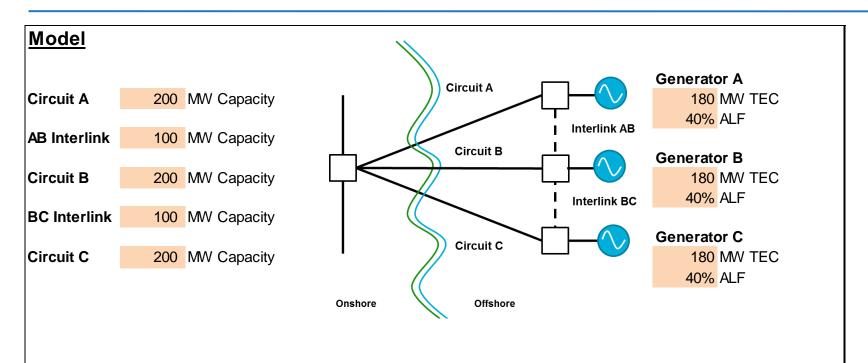
Q10. The situation of more than two interlinks

Applicable for one or two interlinks

- Proportion for Generator A = (A via CCT B + A via CCT C) / sum (routes 1 6)
- Proportion for Generator B = (B via CCT A + B via CCT C) / sum (routes 1 6)
- Proportion for Generator C = (C via CCT A + C via CCT B) / sum (routes 1 6)
- Where
 - 1. A via CCT B = min (CAP_{IAB} , CAP_B $ALF_B \times TEC_B$, $ALF_A \times TEC_A$)
 - 2. A via CCT C = min (CAP_{IAB} , CAP_{IBC} , CAP_{C} $ALF_{C} \times TEC_{C}$, $ALF_{A} \times TEC_{A}$)
 - 3. B via CCT A = min (CAP_{IAB} , CAP_A $ALF_A \times TEC_A$, $ALF_B \times TEC_B$)
 - 4. B via CCT C = min (CAP_{IBC} , CAP_{C} $ALF_{C} \times TEC_{C}$, $ALF_{B} \times TEC_{B}$)
 - 5. C via CCT A = min (CAP_{IBC} , CAP_{IAB} , CAP_{A} $ALF_{A} \times TEC_{A}$, $ALF_{C} \times TEC_{C}$)
 - 6. C via CCT B = min (CAP_{IBC} , CAP_B $ALF_B \times TEC_B$, $ALF_C \times TEC_C$)

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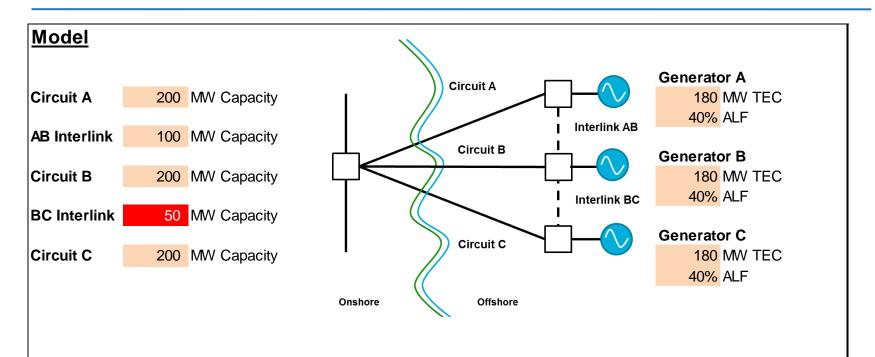
Everything Equal



	Α	В	С
viii Restricted Availability Measure (using ALF)	33.3%	33.3%	33.3%
A via CCT B	72	MW	
A via CCT C	72	MW	
B via CCT A	72	MW	
B via CCT C	72	MW	
C via CCT B	72	MW	
C via CCT A	72	MW	

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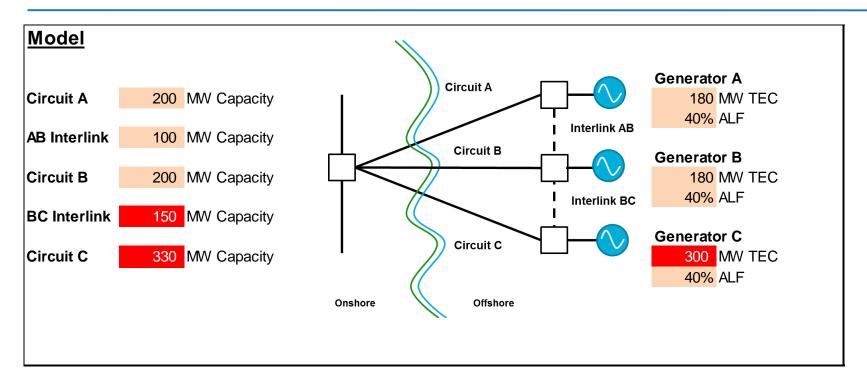
One smaller Interlink



	Α	В	С
viii Restricted Availability Measure (using ALF)	35.5%	35.5%	29.1%
A via CCT B	72	MW	
A via CCT C	50	MW	
B via CCT A	72	MW	
B via CCT C	50	MW	
C via CCT B	50	MW	
C via CCT A	50	MW	

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One Larger Generator



	Α	В	С
viii Restricted Availability Measure (using ALF)	28.3%	28.3%	43.3%
A via CCT B	72	MW	
A via CCT C	72	MW	
B via CCT A	72	MW	
B via CCT C	72	MW	
C via CCT B	120	MW	
C via CCT A	100	MW	



Outstanding Issue Dealing with TEC Changes

TEC Changes

- The Workgroup discussed fixing the proportions paid by each generator for a price control period.
- The Workgroup Consultation agreed with this approach
- However, it has some consequences:
 - Possible to game by having lower initial TEC
 - A generator doesn't benefit from another increase in TEC (causing an over recovery)
 - Potential significant shift in charge at price control, depending on how TEC has changed, e.g. if one is now zero.
- The Workgroup proposed to use the maximum value of TEC a station had ever held.



3. Original Proposal and potential workgroup alternatives



Original Proposal

The TNUoS charging methodology within Section 14 of the CUSC is modified so that:

- The local circuit tariff will be updated to include the portion of the OFTO(s) costs associated with the interlink:
 - costs will be apportioned to each generator according to the formulae (see below) and these proportions will be fixed for a price control period based on initial TEC.
 - Alternatively, generator parties may bilaterally negotiate the proportion of the interlink revenue they will pay (this must sum to 100%), and notify NGET as appropriate. If no agreement is reached, the formulae in the CUSC will be used.

Points to note

- No changes will be made to the methodology for other elements of the charge (e.g. offshore substation or charge for another circuit(s))
- There is no opt-out clause.

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Original Proposal Formulae

(WG Consultation viii as extended)

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 - 6. C via CCT B = min (CAP_{IBC} , $CAP_B ALF_B \times TEC_B$, $ALF_C \times TEC_C$)

Using the station specific ALF where available or the generic ALF for the type of station.