Chapter 20: Offer/Bid Price Only Undo Actions

EIRGRID semo Single Electricity Market Operator SONI

Offers/Bid Price Only Undo Actions

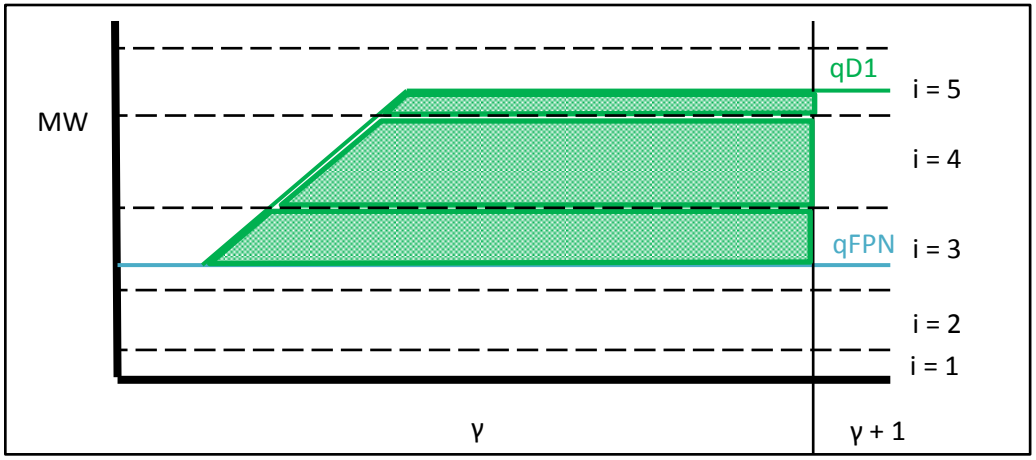
- Because units can submit different prices for Incs and for Decs, if the SO takes an action accepting a quantity over a period and then undoes that action, both of these would be seen as BOAs, one at an inc price and one at a dec price. This difference in prices allows for units to have an element of recovering costs due to the undo;
- BOAs are generally settled at the better of the Imbalance Settlement Price or the Bid Offer Price, which means that the cost of undoing an action is unclear until after the Imbalance Settlement Price has been calculation;
- A refinement to this general approach for settlement of BOAs was decided on by the RAs to apply for undo orders, where only bid or offer prices would apply for the settlement of undo actions which are:
  - Negative Dec actions calculated above the FPN; or
  - Positive Inc actions calculated below the FPN.
- This would allow for the undoing of an action at the actual cost of undoing it, as opposed to undoing it at the Imbalance Settlement Price. This would ensure that the cost of an undo is as close as possible to the cost stated by the participant.

Offers/Bid Price Only Undo Actions

- This is implemented through calculating another quantity in addition to the Bid Offer Acceptance for an undo action: the Bid Price Only Accepted Bid Quantity and Offer Price Only Accepted Offer Quantity. These quantities can then be removed by subtracting them from the Premium and Discount components to ensure the normal treatment does not apply to undo orders in those components;
- An adjustment charge on the Offer Price Only and Bid Price Only quantities is also required to ensure that its net settlement is at a level which is representative of its Bid Offer Price only, rather than being settled at the Imbalance Settlement Price through the Imbalance Component.

Offers/Bid Price Only Undo Actions

Was the order undoing previously accepted volume?

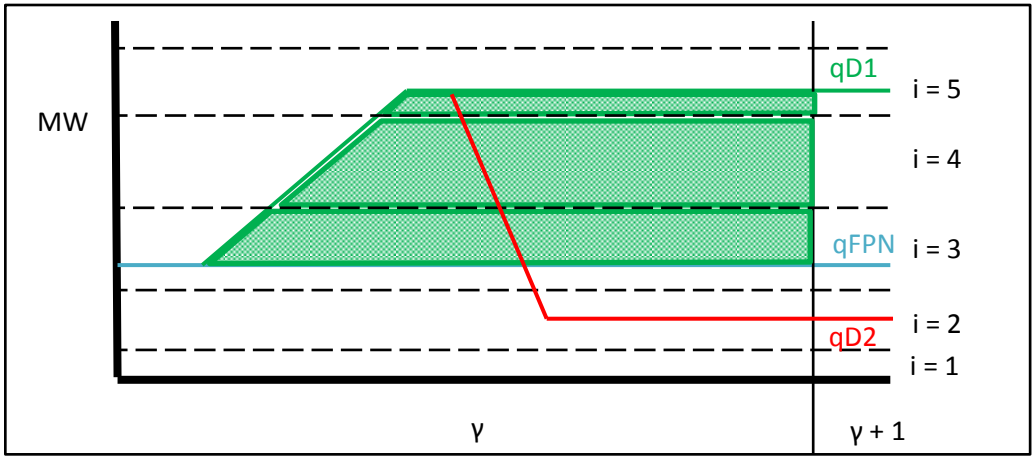


$$CPREMIUM_{u\gamma} = \sum_{o}\sum_{i}\Big(Max\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QAOLF_{uoi\gamma} - Max\big(QAOOPOLF_{uoi\gamma}, QAOBIAS_{uoi\gamma}, QAOUNDEL_{uoi\gamma}, QAOTOTSOLF_{uoi\gamma}\big)\big)\Big)$$

$$CDISCOUNT_{u\gamma} = \sum_{o}\sum_{i}\Big(Min\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QABLF_{uoi\gamma} - Min\big(QABBPOLF_{uoi\gamma}, QABBIAS_{uoi\gamma}, QABUNDEL_{uoi\gamma}, QABNFLF_{uoi\gamma}, QABCURLLF_{uoi\gamma}, QABTOTSOLF_{uoi\gamma}\big)\big)\Big)$$

Offers/Bid Price Only Undo Actions

Was the order undoing previously accepted volume?

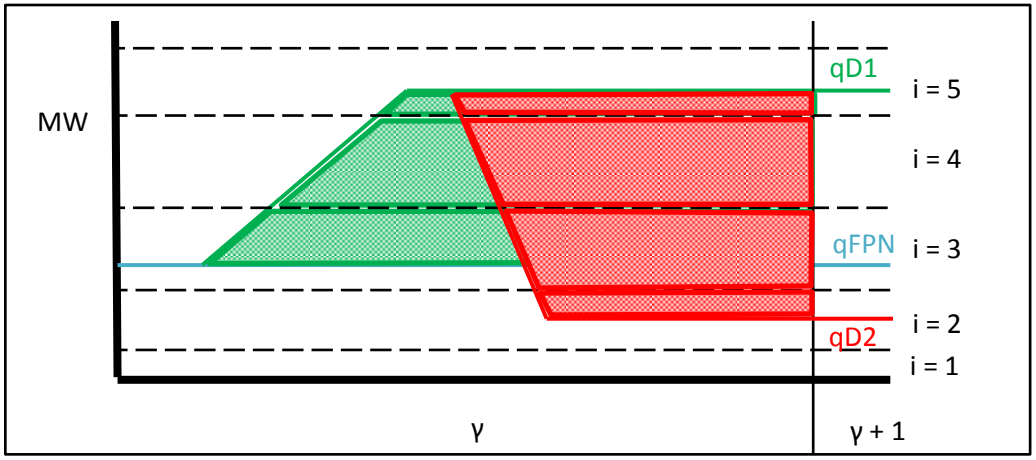


$$CPREMIUM_{u\gamma} = \sum_{o}\sum_{i}\Big(Max\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QAOLF_{uoi\gamma} - Max\big(QAOOPOLF_{uoi\gamma}, QAOBIAS_{uoi\gamma}, QAOUNDEL_{uoi\gamma}, QAOTOTSOLF_{uoi\gamma}\big)\big)\Big)$$

$$CDISCOUNT_{u\gamma} = \sum_{o}\sum_{i}\Big(Min\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QABLF_{uoi\gamma} - Min\big(QABBPOLF_{uoi\gamma}, QABBIAS_{uoi\gamma}, QABUNDEL_{uoi\gamma}, QABNFLF_{uoi\gamma}, QABCURLLF_{uoi\gamma}, QABTOTSOLF_{uoi\gamma}\big)\big)\Big)$$

Offers/Bid Price Only Undo Actions

Was the order undoing previously accepted volume?

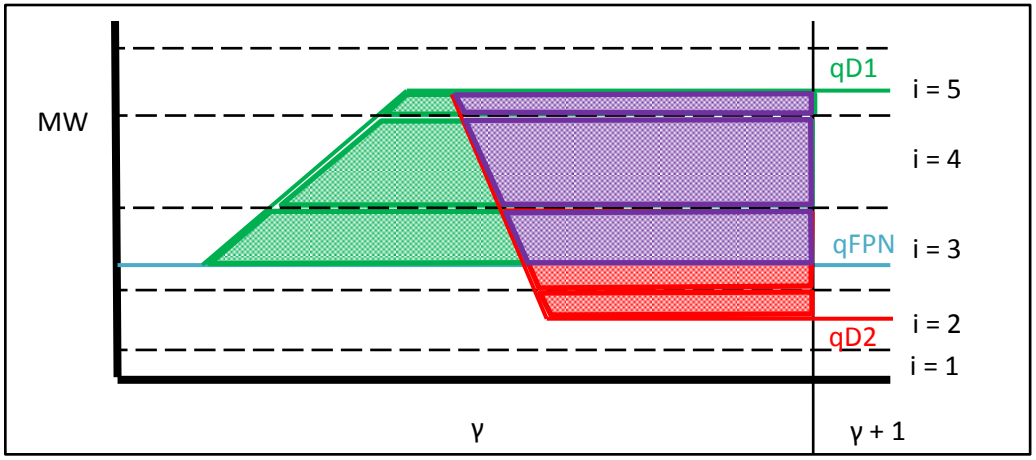


$$CPREMIUM_{u\gamma} = \sum_{o}\sum_{i}\Big(Max\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QAOLF_{uoi\gamma} - Max\big(QAOOPOLF_{uoi\gamma}, QAOBIAS_{uoi\gamma}, QAOUNDEL_{uoi\gamma}, QAOTOTSOLF_{uoi\gamma}\big)\big)\Big)$$

$$CDISCOUNT_{u\gamma} = \sum_{o}\sum_{i}\Big(Min\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QABLF_{uoi\gamma} - Min\big(QABBPOLF_{uoi\gamma}, QABBIAS_{uoi\gamma}, QABUNDEL_{uoi\gamma}, QABNFLF_{uoi\gamma}, QABCURLLF_{uoi\gamma}, QABTOTSOLF_{uoi\gamma}\big)\big)\Big)$$

Offers/Bid Price Only Undo Actions

Was the order undoing previously accepted volume?



$$CPREMIUM_{u\gamma} = \sum_{o}\sum_{i}\Big(Max\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QAOLF_{uoi\gamma} - Max\big(QAOOPOLF_{uoi\gamma}, QAOBIAS_{uoi\gamma}, QAOUNDEL_{uoi\gamma}, QAOTOTSOLF_{uoi\gamma}\big)\big)\Big)$$

$$CDISCOUNT_{u\gamma} = \sum_{o}\sum_{i}\Big(Min\big(PBO_{uoi\gamma} - PIMB_{\gamma}, 0\big) \times \big(QABLF_{uoi\gamma} - Min\big(QABBPOLF_{uoi\gamma}, QABBIAS_{uoi\gamma}, QABUNDEL_{uoi\gamma}, QABNFLF_{uoi\gamma}, QABCURLLF_{uoi\gamma}, QABTOTSOLF_{uoi\gamma}\big)\big)\Big)$$