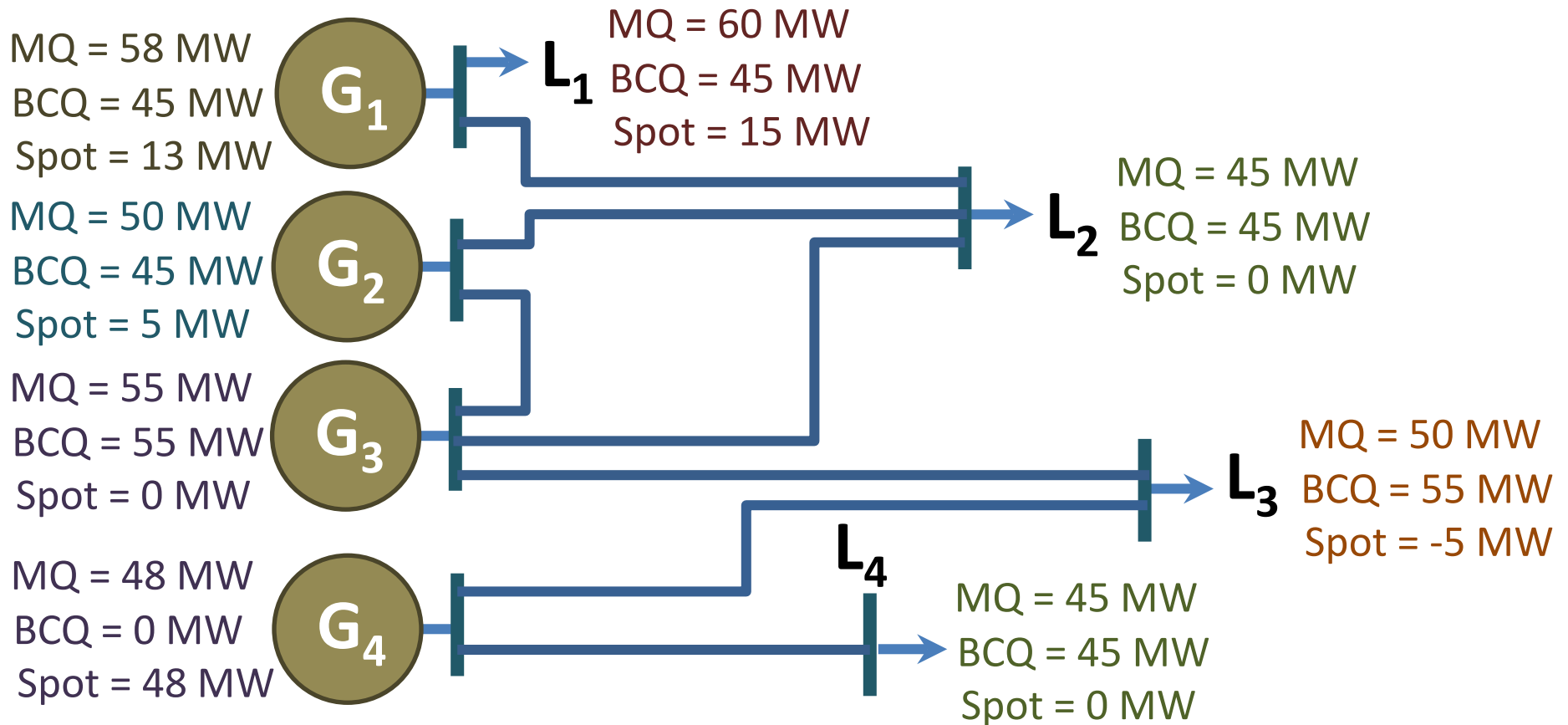


Proposed Settlement of Administered Price

Salient Features of the APDM

- ❖ APDM are governed by the historical price of the generator
- ❖ There is no Nodal Price for the Load
- ❖ There is no Net Settlement Surplus (NSS)
- ❖ Causers Pay
- ❖ Bilateral Contract Quantity (BCQ) was already served at contract Price, thus line rental should not be influence by the market prices
- ❖ Inter region APDM apply

Calculation of Administered Price



Calculation of Settlement Amount of Generator

Generator Settlement

$$TA = \text{Spot} \times \text{Admin Price}$$

$$TA_{G1} = 13 \times 1 = \text{Php } 13$$

$$TA_{G2} = 5 \times 2 = \text{Php } 10$$

$$TA_{G3} = 0 \times 3 = \text{Php } 0$$

$$TA_{G4} = 48 \times 4 = \text{Php } 192$$

$$TTA = TA_{G1} + TA_{G2} + TA_{G3} + TA_{G4}$$

$$TTA = 13 + 10 + 0 + 192 = \text{Php } 215$$

Determination of Administered Price

$$AP_{\text{Gen-}i} = \frac{\sum_{D=1}^4 EPP_{\text{Gen-}i,D} * MQ_{\text{Gen-}i,D}}{\sum_{D=1}^4 MQ_{\text{Gen-}i,D}}$$

$$SA_{\text{Load-}j} = \left(\frac{\sum_{i=1}^n AP_{\text{Gen-}i} * MQ_{\text{Gen-}i}}{\sum_{j=1}^m MQ_{\text{Load-}j}} \right) * MQ_{\text{Load-}j}$$

EPP = Ex-Post Price

AP = Administered Price

D = number of historical trading days to be considered

i = Generator resources (Suppliers)

MQ = Meter Quantity

SA = Settlement Amount

n = number of generator resources with positive meter quantity

m = number of load resources with negative meter quantity

j = Load resources (Customers)

Calculation of Administered Price – Option 1

Load Settlement

$$SA_{\text{Load-j}} = \left(\frac{\sum_{i=1}^n AP_{\text{Gen-i}} * MQ_{\text{Gen-i}}}{\sum_{j=1}^m MQ_{\text{Load-j}}} \right) * MQ_{\text{Load-j}} \quad AP_{\text{Gen-i}} = \frac{\sum_{D=1}^4 EPP_{\text{Gen-i,D}} * MQ_{\text{Gen-i,D}}}{\sum_{D=1}^4 MQ_{\text{Gen-i,D}}}$$

Load Settlement with Bilateral

$$AP_{\text{Gen-i}} = \frac{\sum_{D=1}^4 EPP_{\text{Gen-i,D}} * MQ_{\text{Gen-i,D}}}{\sum_{D=1}^4 MQ_{\text{Gen-i,D}}} = \frac{58 * 1 + 50 * 2 + 55 * 3 + 48 * 4}{60 + 45 + 50 + 55} = 2.45$$

$$SA_{L1} = 2.45 * 60 - 1 * 45 = 102.14$$

$$SA_{L2} = 2.45 * 45 - 2 * 45 = 20.36$$

$$SA_{L3} = 2.45 * 50 - 3 * 55 = -42.38$$

$$SA_{L4} = 2.45 * 55 - 4 * 0 = 134.88$$

$$TTA = TA_{L1} + TA_{L2} + TA_{L3} + TA_{L4}$$

$$TTA = 102.14 + 20.36 + (-42.38) + 134.88 = \text{Php } 215$$

Calculation of Administered Price – Option 2

Load Settlement

$$SA_{\text{Load-j}} = \left(\frac{\sum_{i=1}^n AP_{\text{Gen-i}} * Spot_{\text{Gen-i}}}{\sum_{j=1}^m Spot_{\text{Load-j}}} \right) * Spot_{\text{Load-j}} \quad AP_{\text{Gen-i}} = \frac{\sum_{D=1}^4 EPP_{\text{Gen-i,D}} * MQ_{\text{Gen-i,D}}}{\sum_{D=1}^4 MQ_{\text{Gen-i,D}}}$$

Load Settlement with Bilateral

$$\text{Total Spot Quantity} = Spot_{L1} + Spot_{L2} + Spot_{L3} + Spot_{L4}$$

$$\text{Total Spot Quantity} = 15 + 0 + (-5) + 55 = 65$$

$$SA_{L1} = \left(\frac{215}{65} \right) * 15 = 49.62$$

$$SA_{L2} = \left(\frac{215}{65} \right) * 0 = 0.0$$

$$SA_{L3} = \left(\frac{215}{65} \right) * (-5) = -16.54$$

$$SA_{L4} = \left(\frac{215}{65} \right) * 55 = 181.92$$

$$TTA = TA_{L1} + TA_{L2} + TA_{L3} + TA_{L4}$$

$$TTA = 49.62 + 0.0 + (-16.54) + 181.82 = \text{Php } 215$$

Thank You!