**Total net balance:**

* pre-balance[round] = imbalance without balancing: For all CR do predicted cons + cons flex – pred. prod – prod.flex
* preprice[round] Average price if no balancing would have been done: (weighted average based on price and volume)

*Pre-Balance[round] = 0*

*Pre-price[round] =0*

*TotalVolume=0*

*For all CR for this round:*

*TempVolume= CR.predprod - CR.predcons*

*Balance[round] +=TempVolume*

*TotalVolume += TempVolume*

*Pre-price[round] = CR.predprod \*CR.def.prod price - CR.predcons.def.consprice*

*For all entry in CR.flex*

*Balance[round] += CR.prodfle – CR.consflex*

*Pre-price[round] += CR.prodflex\* price – CR.cons\*price*

*TotalVolume += CR.prodfle – CR.consflex*

*Pre-price[round] =* pre-price[round]/total volume

* Post balancing[Round] = sum of volume ask (or bid) of trades
* Post-price = average price per kwh after balancing= (weighted average based on price and volume)

*Post-balance[round] = 0*

*Trade-Volume[round] = 0*

*Trade-Revenue[Round]*

*Post-price[round] = 0*

*TotalVolume=0*

*For all remaining open order (that are not back-up supplier):*

*Post-balance = CR.predprod - CR.predcons*

*Post-price = CR.predprod \*CR.def.prod price - CR.predcons.def.consprice*

*TotalVolume += CR.predprod - CR.predcons*

*For all ask trades in this round:*

*TotalVolume += tradevolume*

*Post-Price[round] += tradevolume\*tradeprice*

*TradeVolume[Round] += trade*

*Trade-revenue + = tradevolume\*tradeprice*

*Post-price[round] = post-price[round]/TotalVolume*

* Trade-Volume = Total energy traded, amount of money moved around (sum all ask (or bid) trade volumes, sum of all ask (or bid) price\*volume