FTR Auction Prices and DA CLMP Differences

FRMSTF September 5, 2019 Seth Hayik



FTR Auction Prices and DA Prices

- ARRs can be an effective offset for congestion only if FTR prices are a reasonable approximation of actual price differences on the FTR paths.
 - Necessary but not sufficient condition.
- Differences between FTR prices and actual price differences on the FTR paths are a measure of risk.

FTR Auction Prices and DA Prices

- Differences result from observed inability to accurately forecast price differences which increases with time before FTR period.
- Differences between the FTR model and the day ahead model cause significant risk and price differences

FTR Auction Prices Reveal Risk

- Prices in FTR auctions beyond the prompt quarter do not reflect actual DA price differences.
- Increasing the number of auctions beyond the prompt quarter will not improve price discovery or decrease risk.
 - Does not improve the valuation of ARRs.
- Prices in long term auctions show that long term auctions are an ineffective and inefficient way to value forward values of FTRs.
 - Does not improve the valuation of ARRs.
- Increasing the number of long term auctions will not improve price discovery of FTRs or mitigate risk.
 - Does not improve the valuation of ARRs.

Comparing FTR Auction and Day Ahead Market

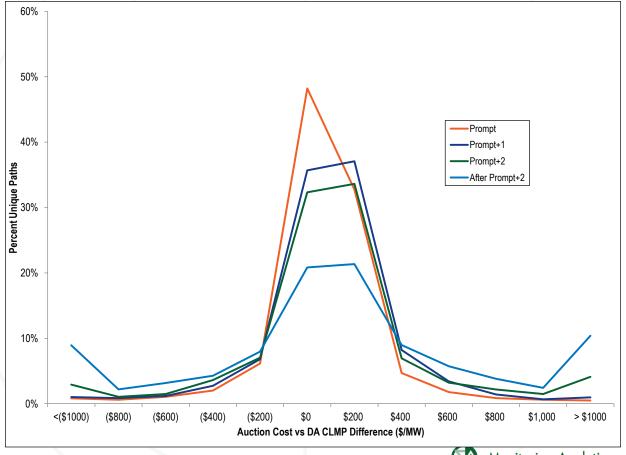
Auction value for a period, per MW
 Period Value_{Auction} = Cleared Price

- Average day ahead value for a period, per MW $Period\ Value_{DA} = Avg\ DA\ Hourly\ CLMP_{path}\ * hours_{period}$
- Comparison of FTR auction and day ahead market $Difference = Period\ Value_{Auction} Period\ Value_{DA}$

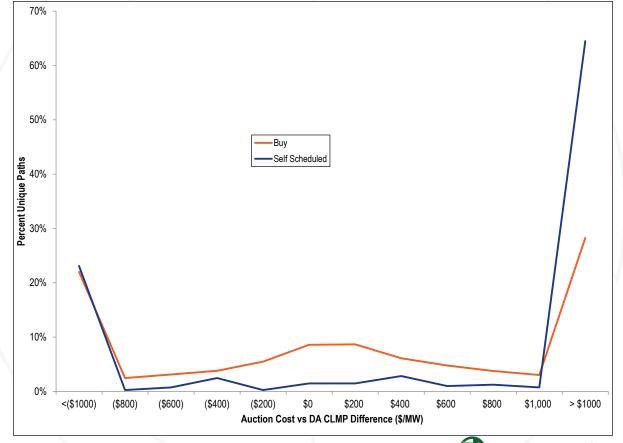
Results

- Figures show frequency distribution of FTR auction prices to day-ahead price differences over the same paths.
- If distribution were 100 percent at \$0, FTR auction prices would be a perfect way to value ARRs.
- As distribution moves away from \$0, FTR auction prices decrease in value as an effective and efficient way to value ARRs.

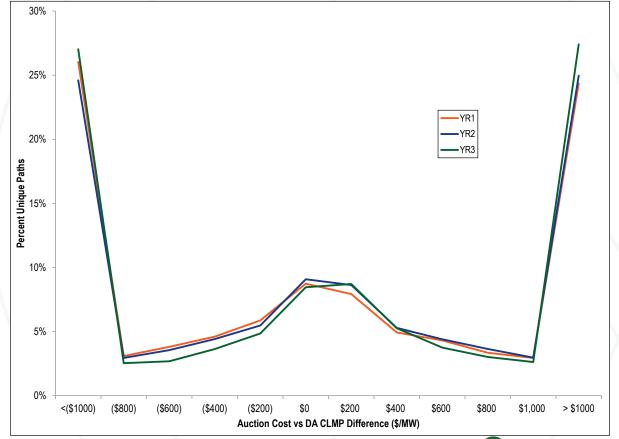
18/19 Monthly Auction: FTR Price/DA Price Difference



18/19 Annual Auctions: FTR Price/DA Price Difference



Effective 18/19 Long Term Auction: FTR Price/DA Price Difference



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