



# Northern Illinois Control Area Interim Market Monitoring Report for June 2004

Market Monitoring Unit  
July 2004

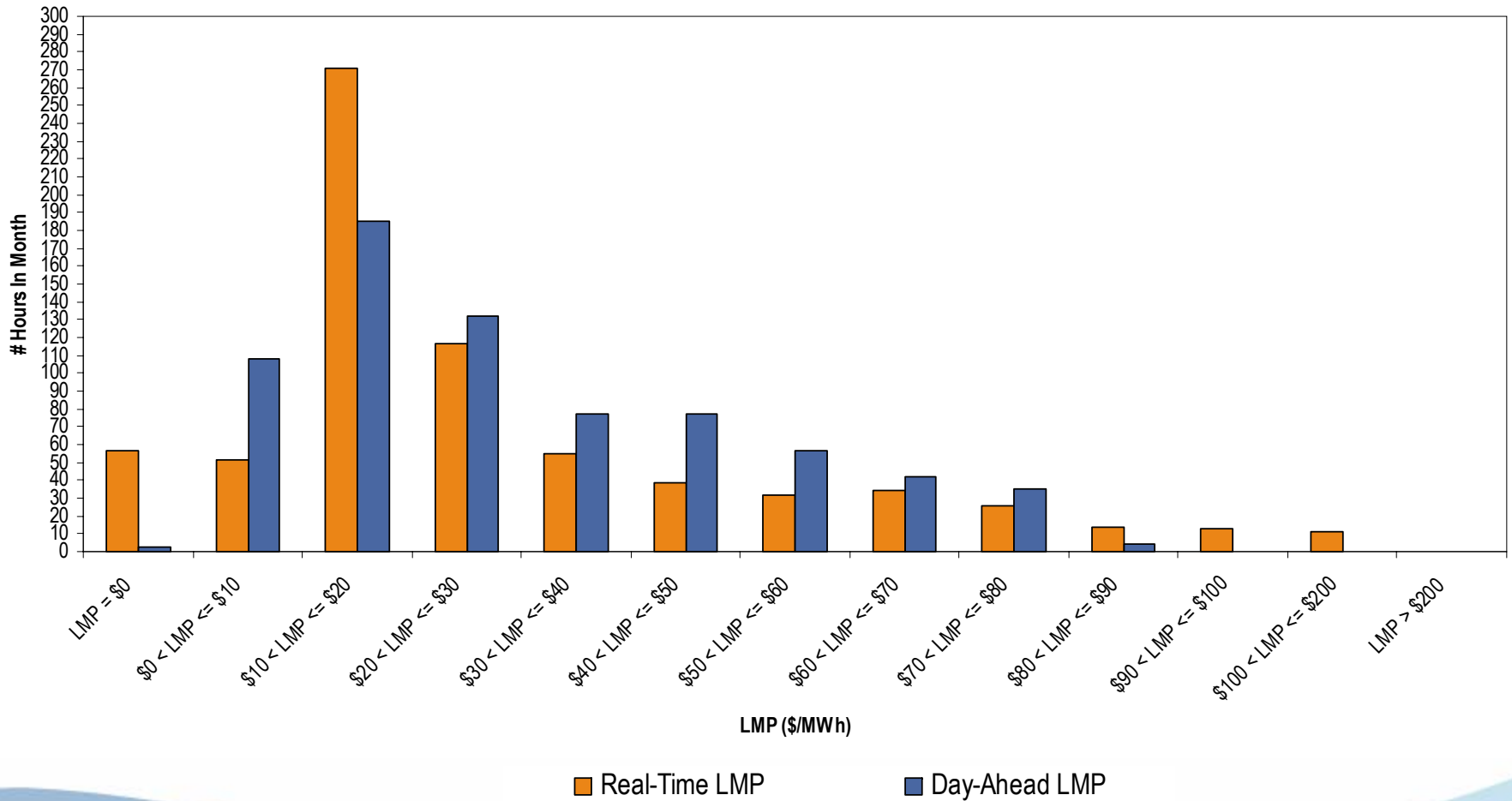
## NICA market results – May/June 2004

- Overall, the integrated NICA markets functioned well and effectively.
- The NICA energy market results were reasonably competitive.
- Pathway flows have increased competition in NICA and in PJM CA.
- Interface pricing has been reasonably effective.
- FTRs in NICA have provided an effective congestion hedge.
- Congestion has been limited.
- Financial offer and bid levels reflect an active use of PJM hedging instruments.

## Energy market prices – June 2004

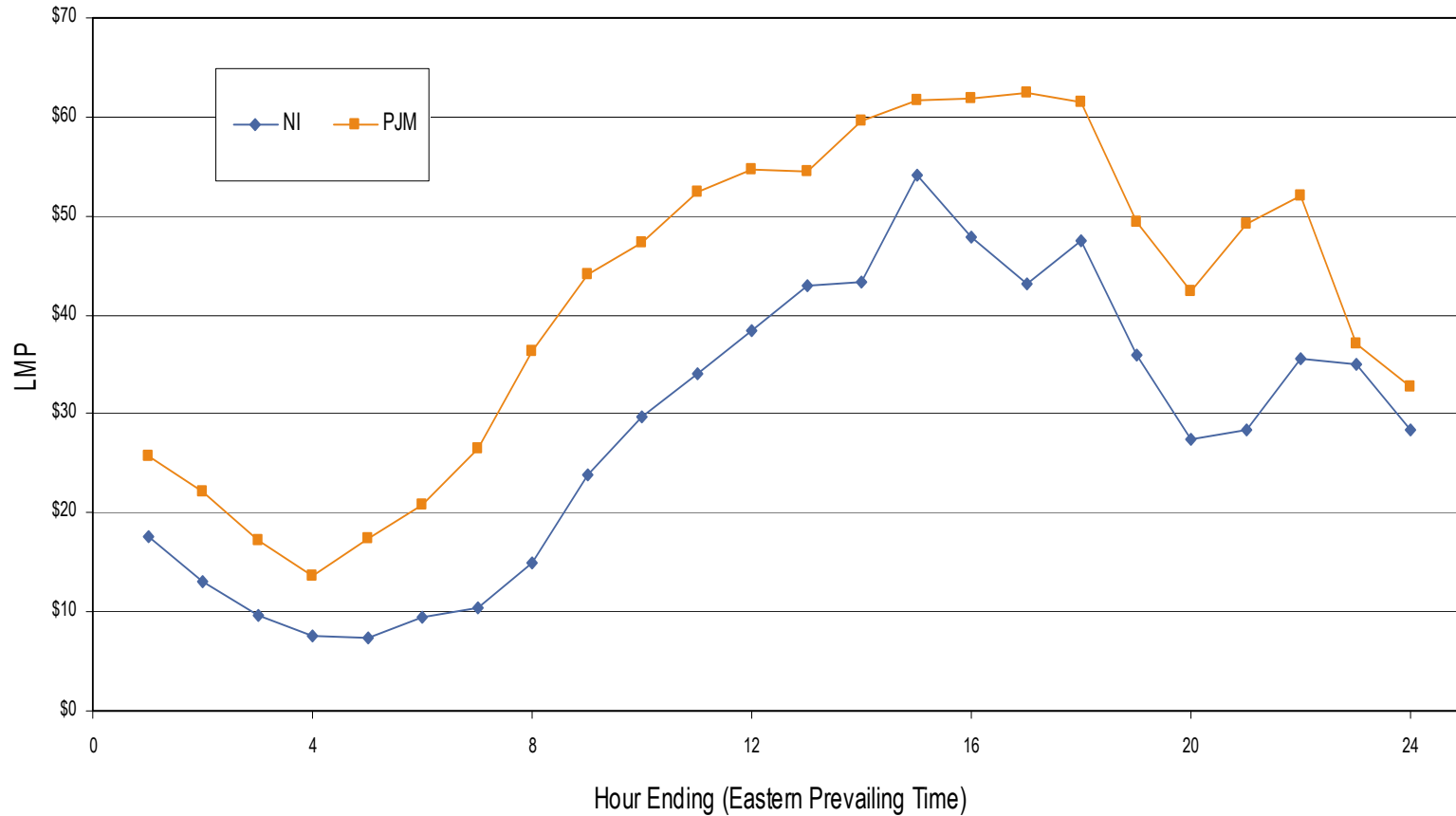
- NICA real-time zonal LMP was less than \$30 per MWh for 69 percent of the hours.
- NICA day-ahead zonal LMP was less than \$30 per MWh for 60 percent of the hours.
- PJM CA real-time LMP was greater than NICA real-time LMP by an average of \$13.19 per MWh.
- PJM CA day-ahead LMP was greater than NICA day-ahead LMP by an average of \$12.40 per MWh.

### NICA Zonal LMP - June 2004



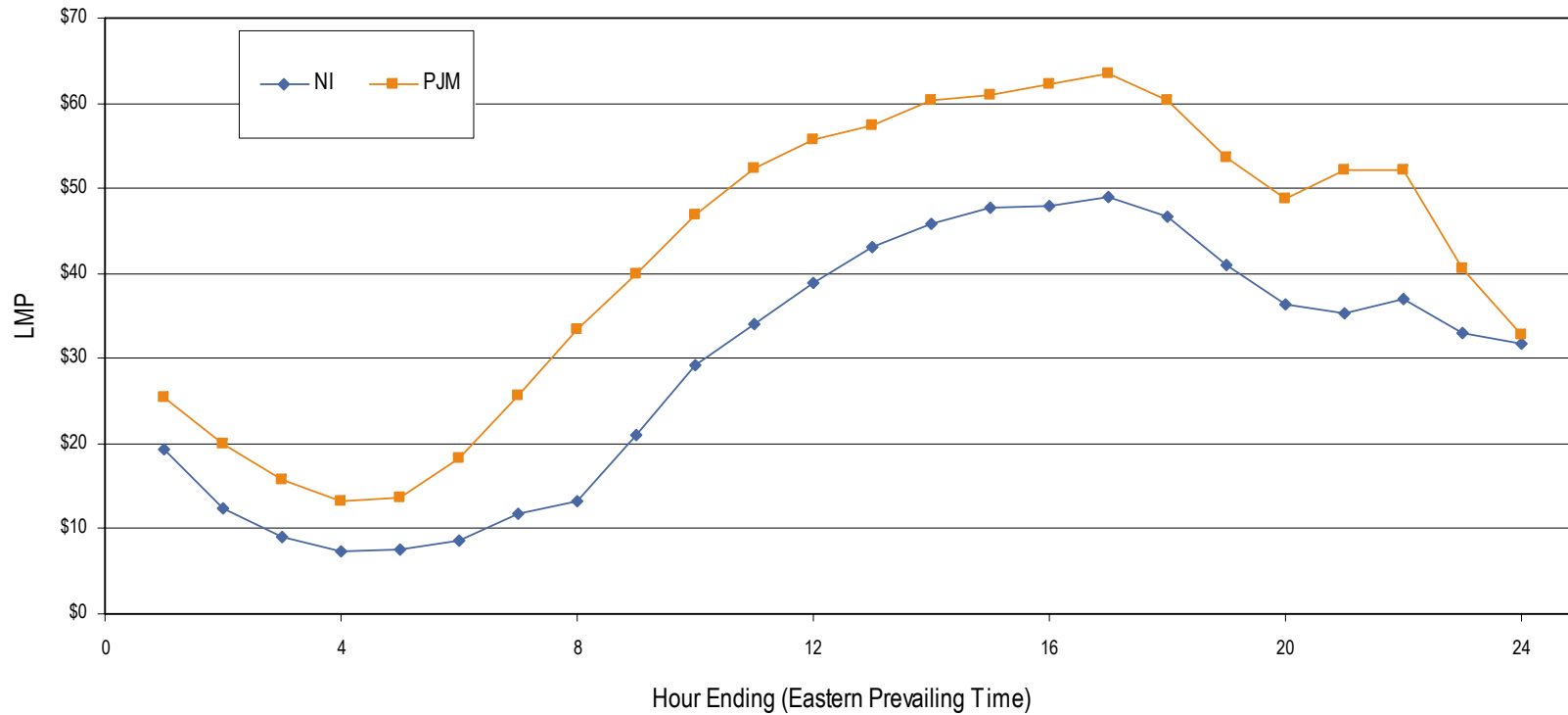
### Average Hourly Real-Time LMP - June 2004

Average LMP Difference for June: \$13.19



### Average Hourly Day-Ahead LMP - June 2004

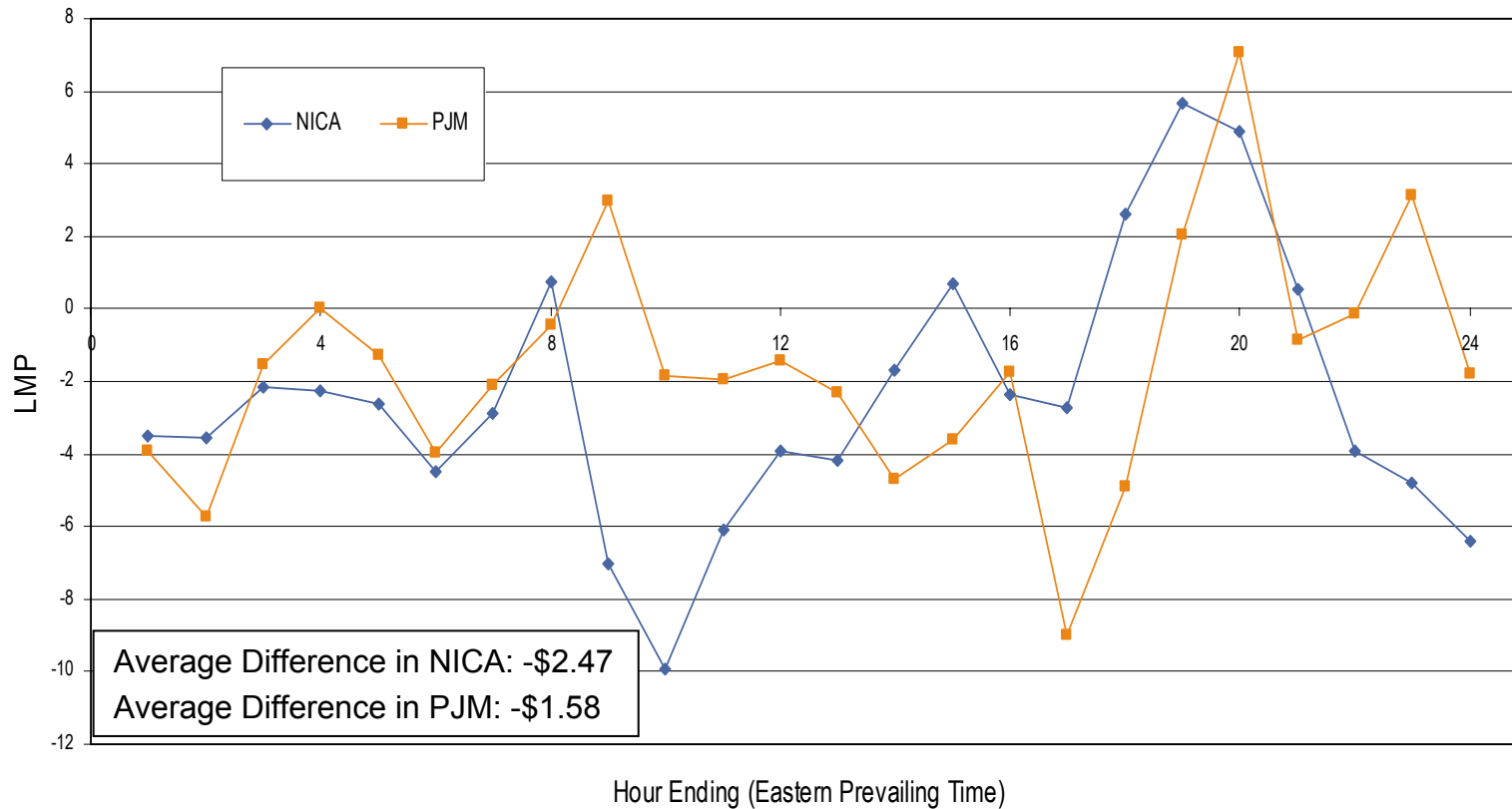
Average LMP Difference for June: \$12.40



## Energy market price differentials – May and June 2004

- NICA day-ahead zonal LMP was less than NICA real-time zonal LMP in May. The average hourly difference was \$2.47 per MWh.
- PJM CA day-ahead zonal LMP was less than PJM CA real-time zonal LMP in May. The average hourly difference was \$1.58 per MWh.
- NICA day-ahead zonal LMP was greater than NICA real-time zonal LMP in June. The average hourly difference was \$0.91 per MWh.
- PJM CA day-ahead zonal LMP was greater than PJM CA real-time zonal LMP in June. The average hourly difference was \$0.12 per MWh.

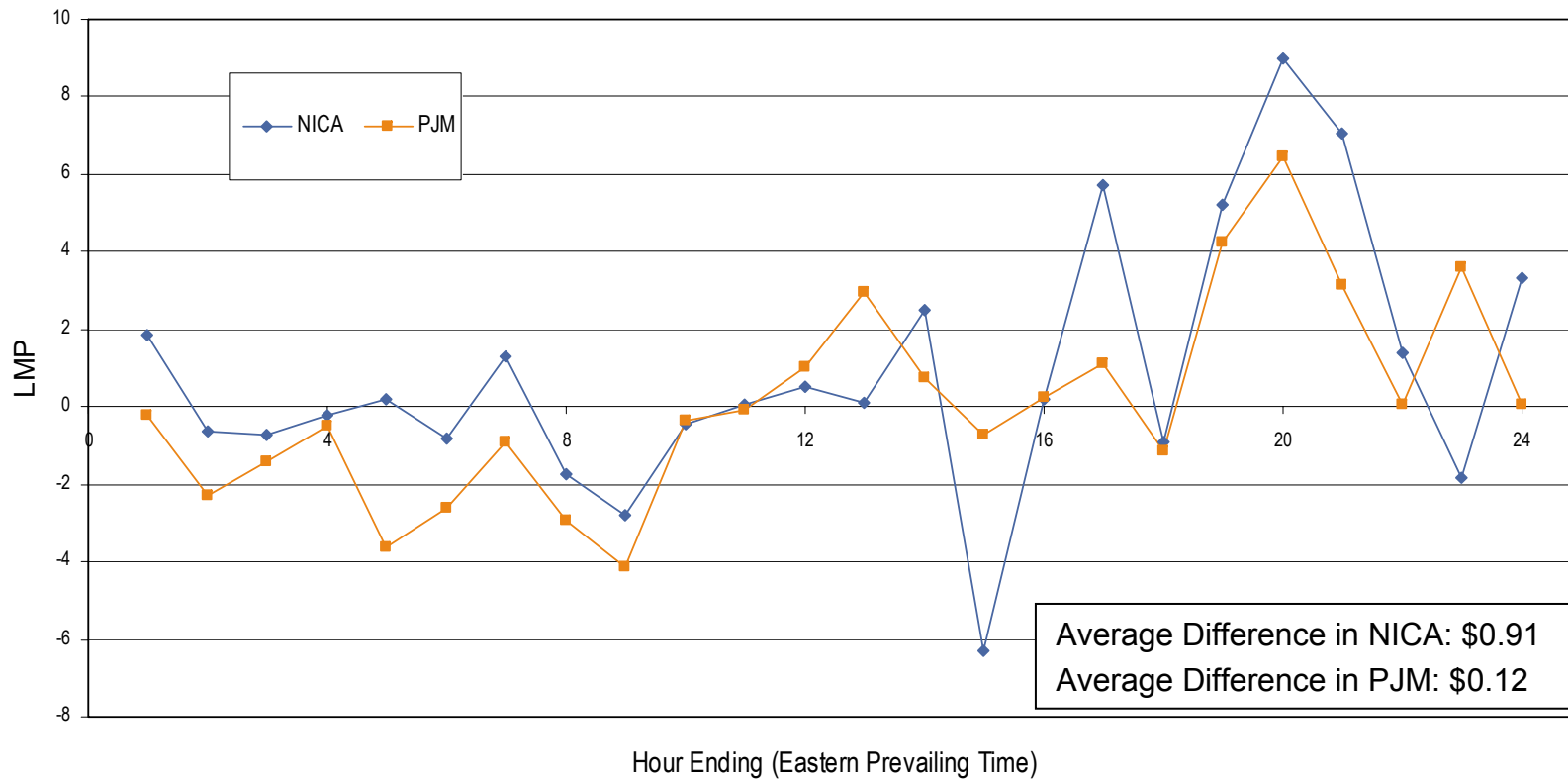
## Average Hourly Difference of Day-Ahead and Real-Time LMPs May 2004





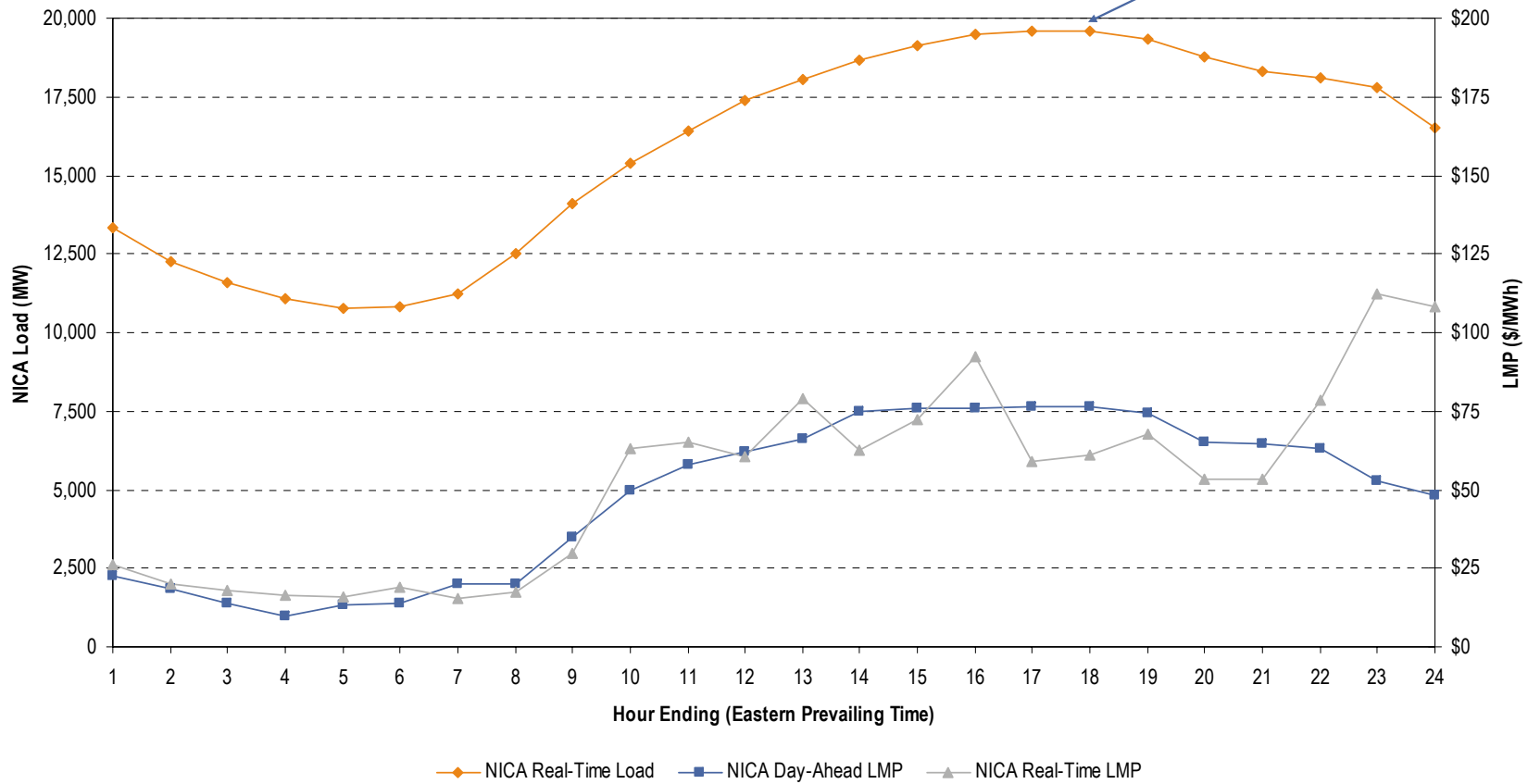
## Average Hourly Difference of Day-Ahead and Real-Time LMPs

June 2004

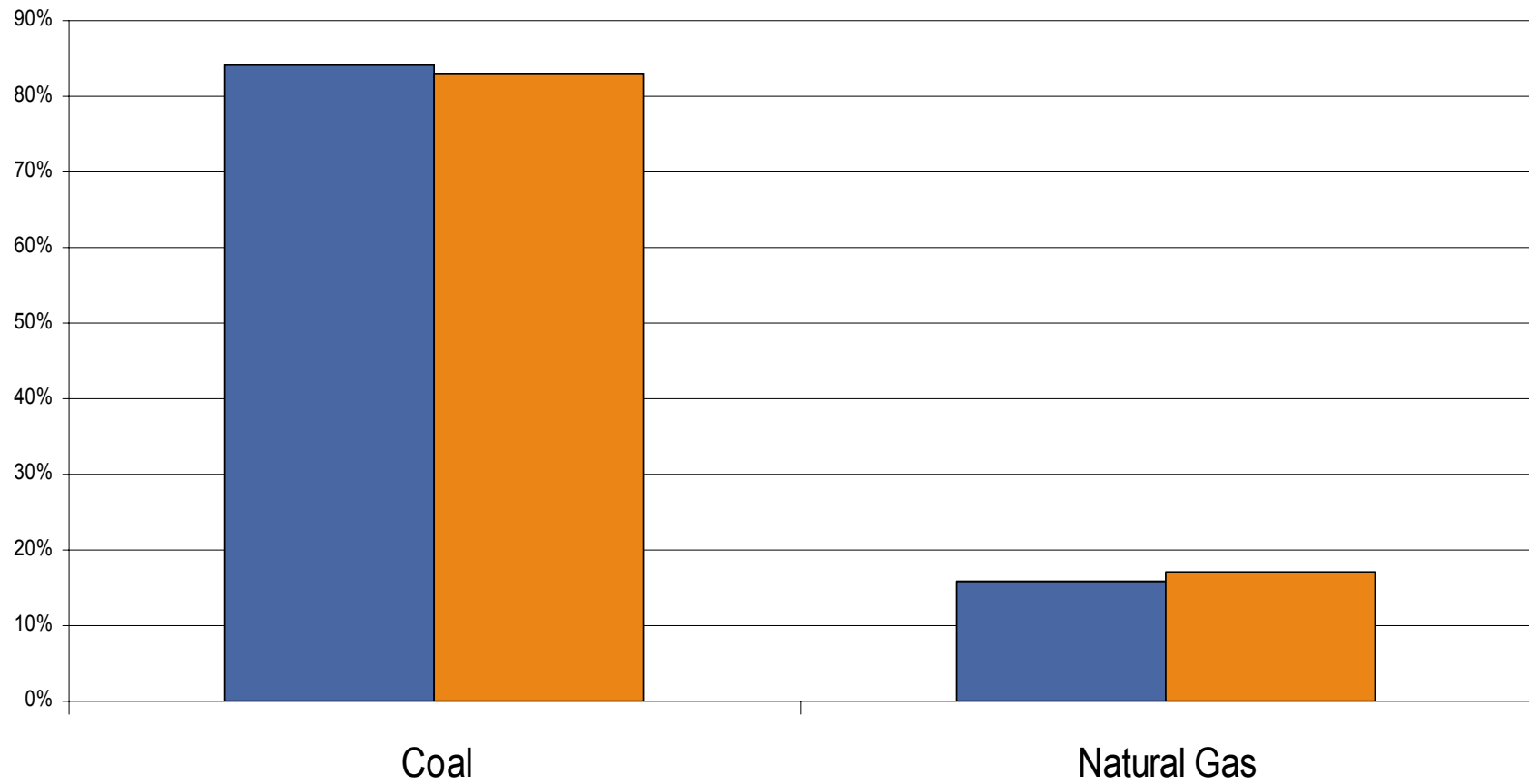


## NICA Peak Demand for 2004 through June 30th June 8, 2004

6/8/04 - 1800 EPT NICA 19,586 MW



## Fuel of NICA Marginal Units

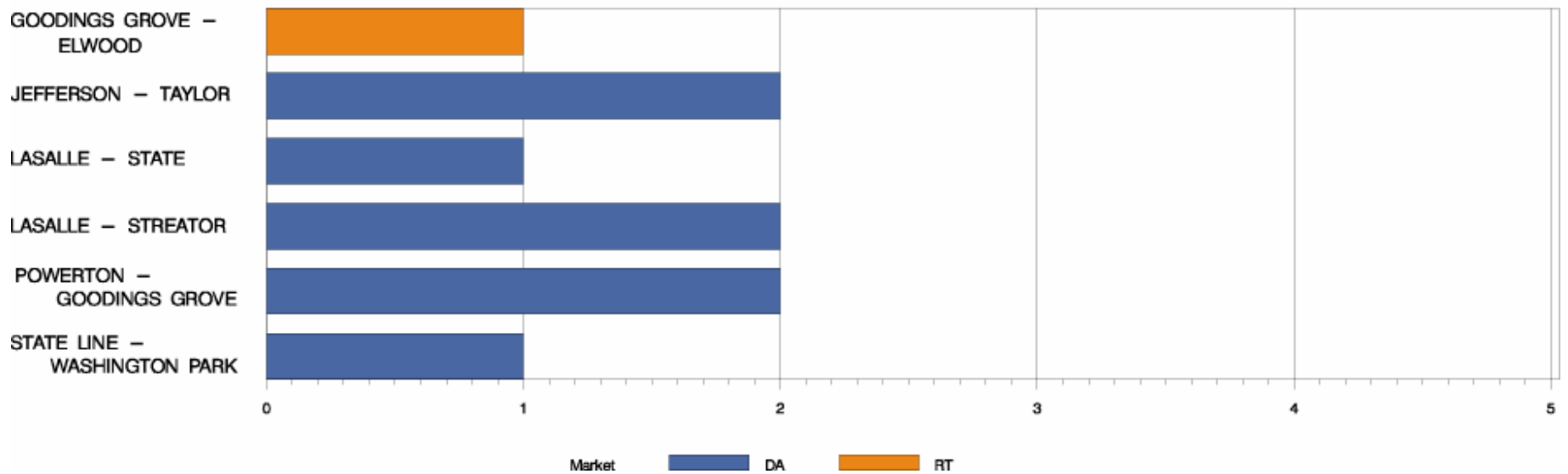


■ May ■ June

## NICA Congestion for June 2004

- Congestion was very limited in NICA in June.
- Day-Ahead Market congestion:
  - 8 event hours
- Real-Time Market congestion:
  - 1 event hour
- No NICA units were offer-capped in the Real-Time Markets in June 2004.
- No NICA units were offer-capped in the Day-Ahead Markets in June 2004.

## NICA Congestion Event Hours by Facility JUNE 2004



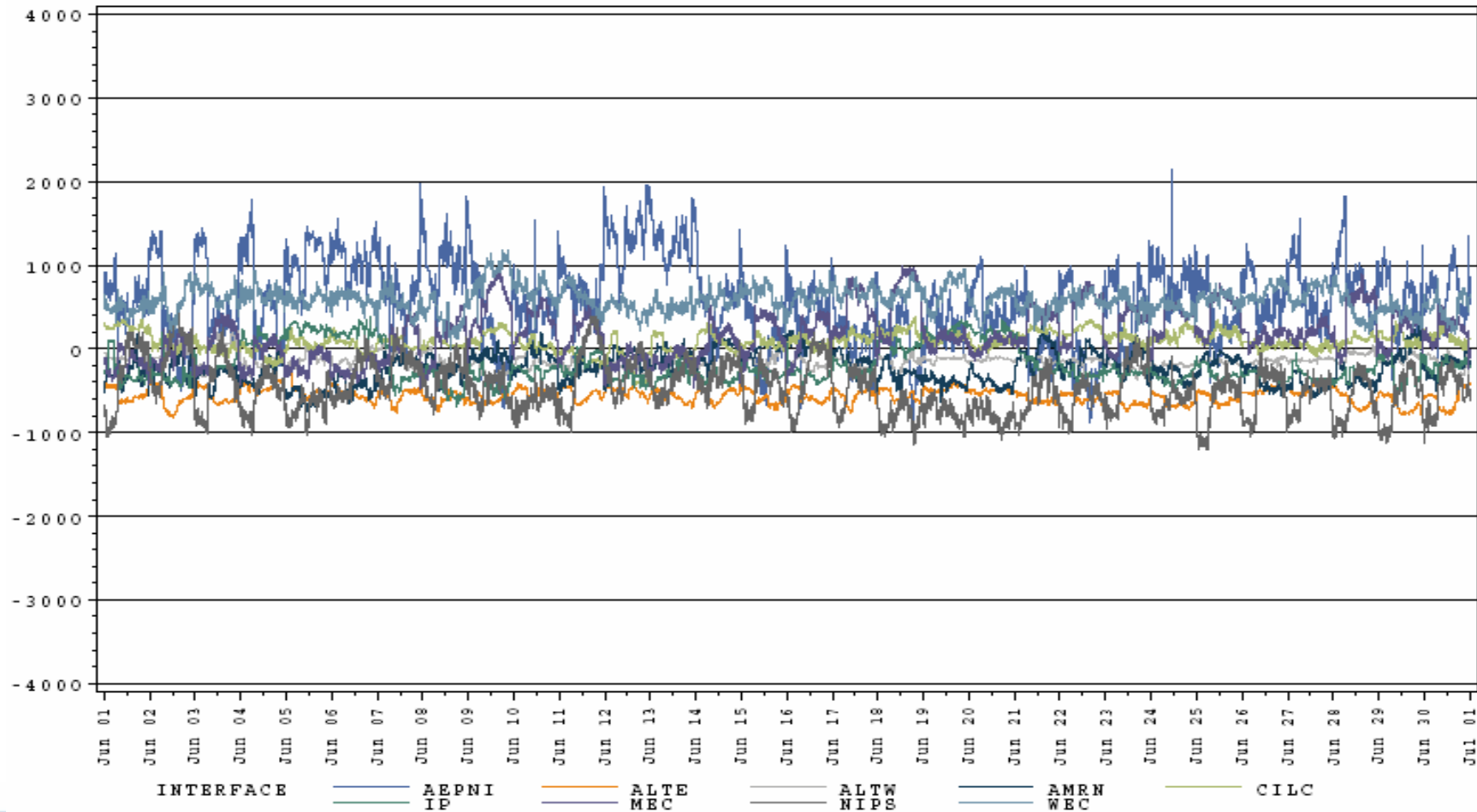
## Real-time pathway statistics for June 2004

- Pathway limited from NICA to PJM 354 hours, or 49 percent.
- Pathway limited from PJM to NICA 65 hours, or 9 percent.
- Pathway not limited for 301 hours, or 41 percent.
- Pathway flowed from NICA to PJM for 485 hours, or 67 percent.
- Pathway flowed from PJM to NICA for 235 hours, or 33 percent.

## Day-ahead pathway statistics for June 2004

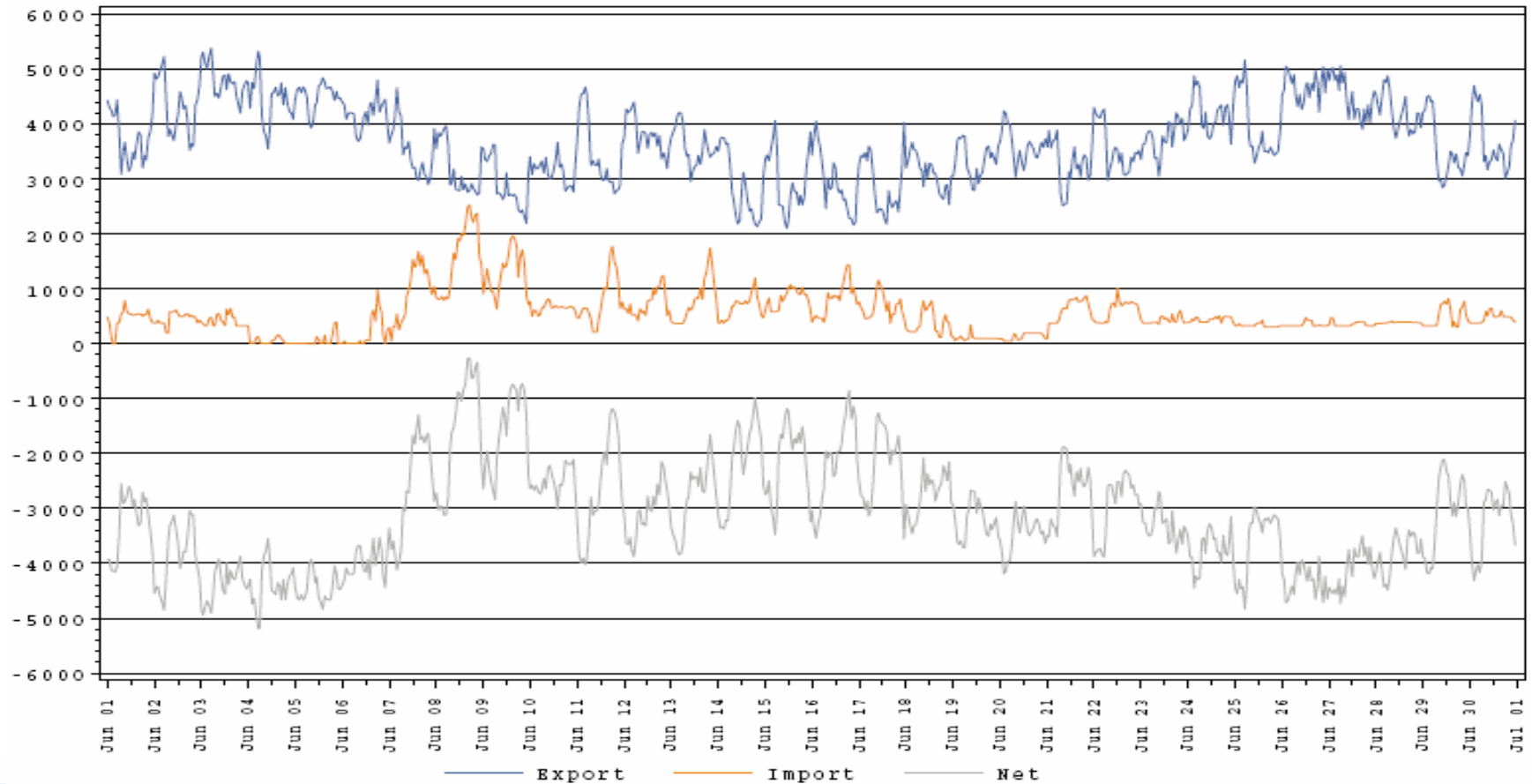
- Pathway limited from NICA to PJM 478 hours, or 66 percent.
- Pathway limited from PJM to NICA 82 hours, or 11 percent.
- Pathway not limited for 160 hours, or 22 percent.
- Pathway flowed from NICA to PJM for 585 hours, or 81 percent.
- Pathway flowed from PJM to NICA for 135 hours, or 19 percent.
- The direction of flow on the pathway is primarily a function of interface price differentials.

## NICA Actual Minus Scheduled Tie Flows June 2004





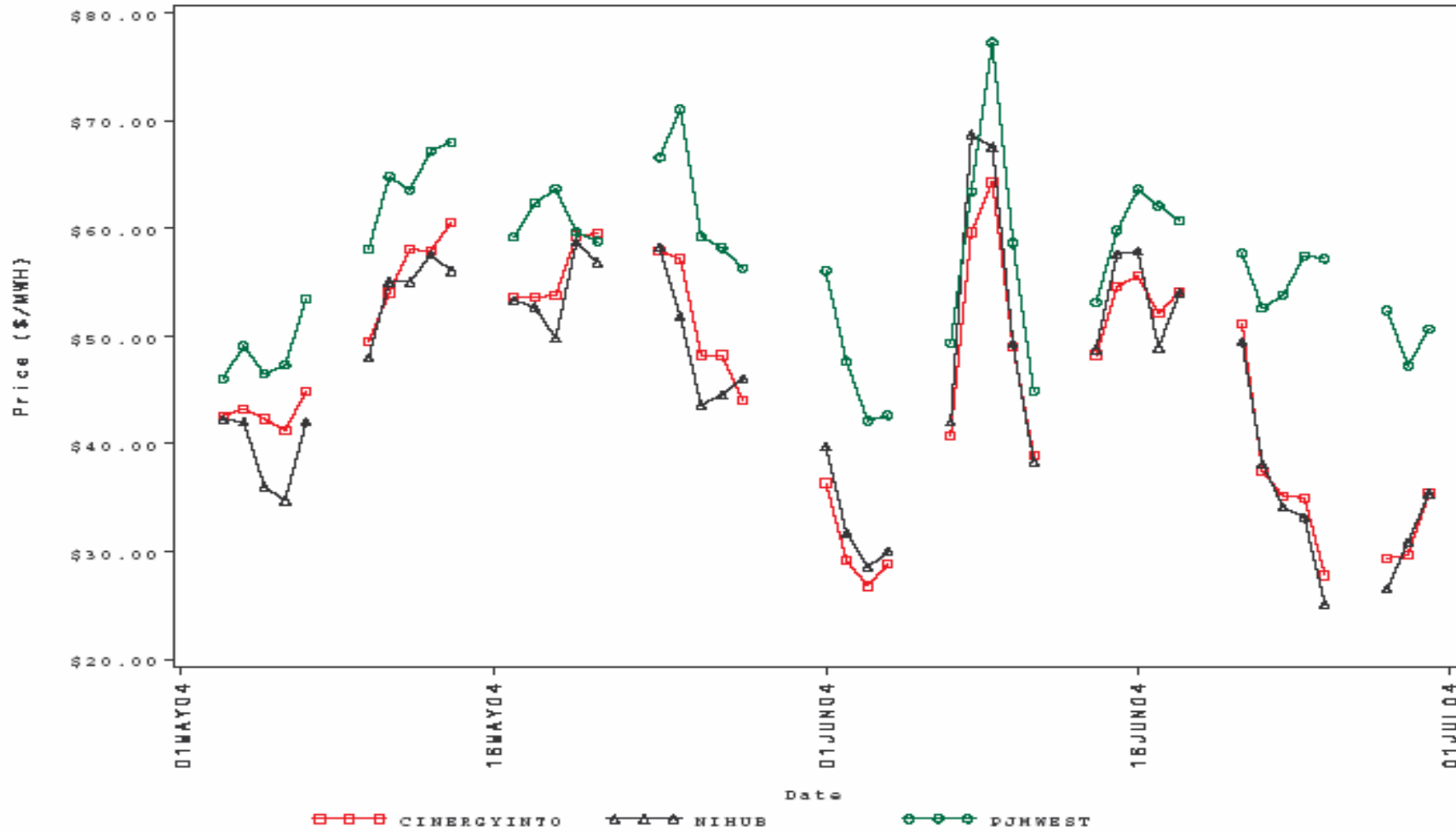
## NICA Imports, Exports and Net June 2004



- Daily forward prices for NIHub and CINergy tracked closely in June.
  - The maximum daily NIHub – CINergy spread was \$9.05 per MWh during June.
  - The average daily NIHub – CINergy spread was \$0.75 per MWh during June.
  - The NIHub – CINergy spread was \$0.00 per MWh on the final trading day of June.

## Cinergy, NIHub and PJM Dailies

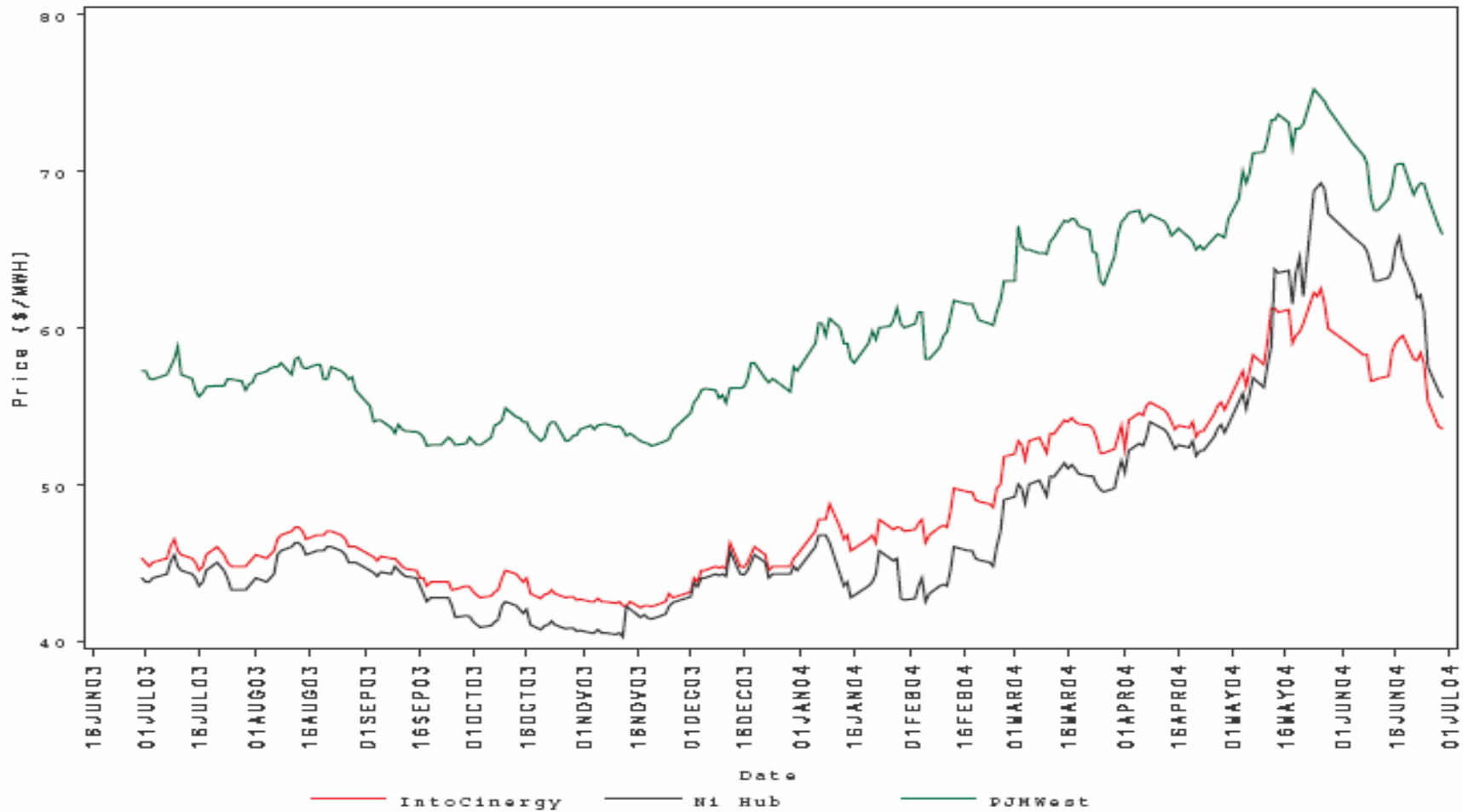
Platts Data



- Forward prices for the July-August contract showed varying spreads during June.
  - Spreads reflect traders' expectations about future prices.
  - The maximum NIHub – CENergy spread was \$7.40 per MWh during June.
  - The average NIHub – CENergy spread was \$5.12 per MWh during June
  - The NIHub – CENergy spread was \$2.00 per MWh on the final trading day for the July-August contract.

## Cinergy, NIHub and PJM West Forward Prices

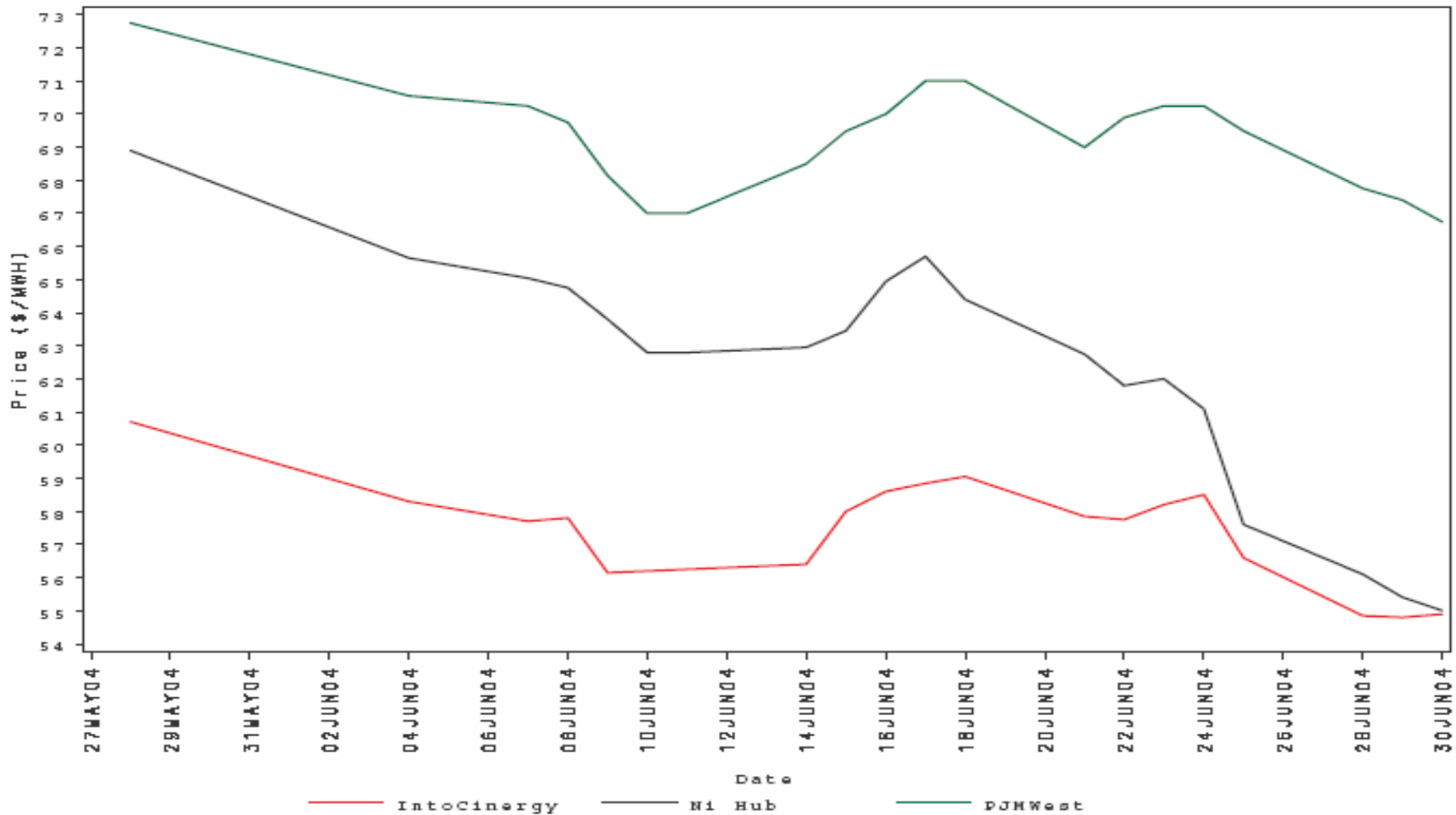
Platts Data  
Jul - Aug 2004 Contract



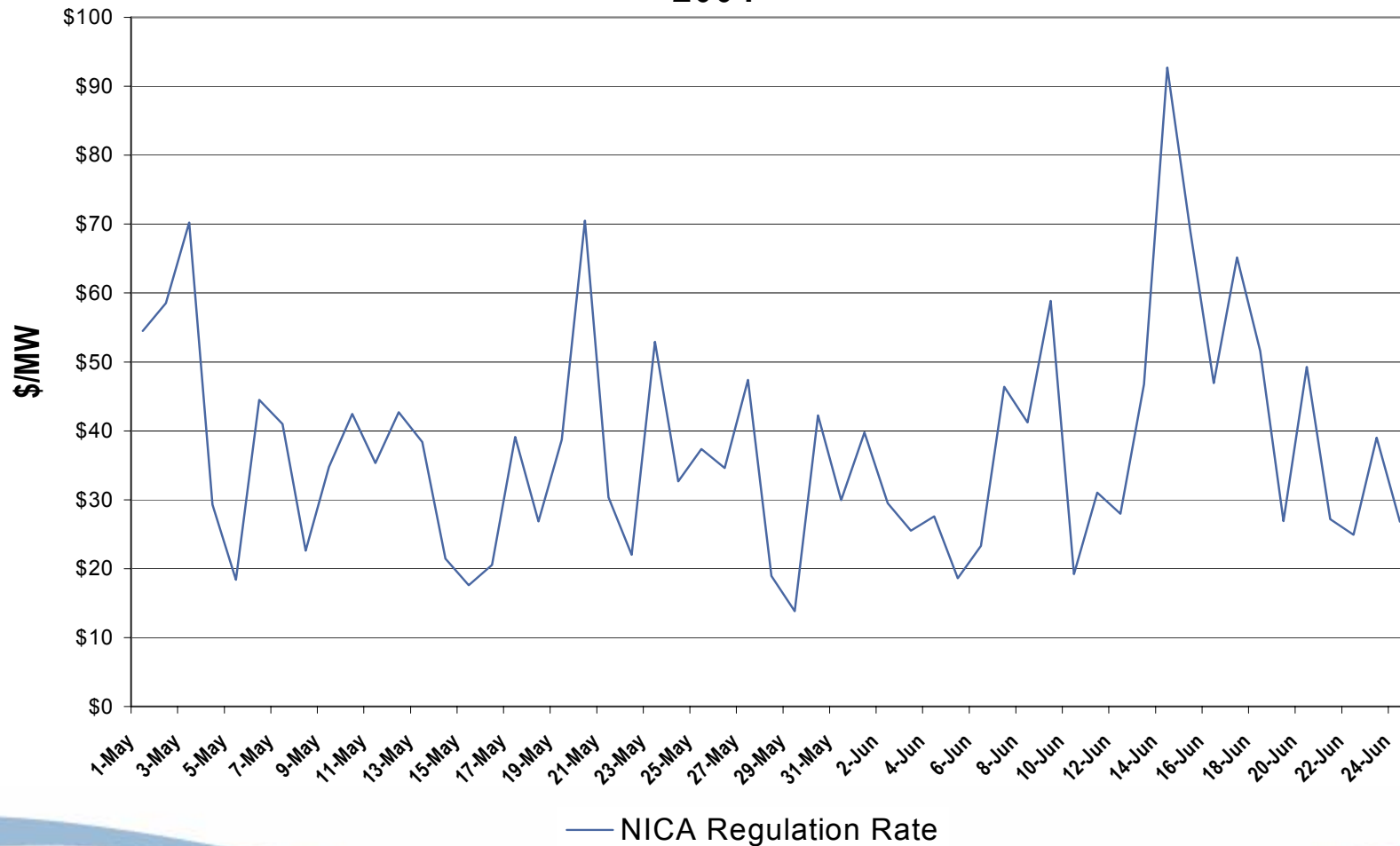
- Forward prices for the August contract showed varying spreads during June.
  - Spreads reflect traders' expectations about future prices.
  - The maximum NIHub – CINergy spread was \$7.65 per MWh during June.
  - The average NIHub – CINergy spread was \$4.81 per MWh during June
  - The NIHub – CINergy spread for the August contract was \$0.10 per MWh on the final day of June.

## Cinergy, NIHub and PJM West Forward Prices

Platts Data  
Aug 2004 Contract



### NICA Daily Regulation Cost per MW 2004



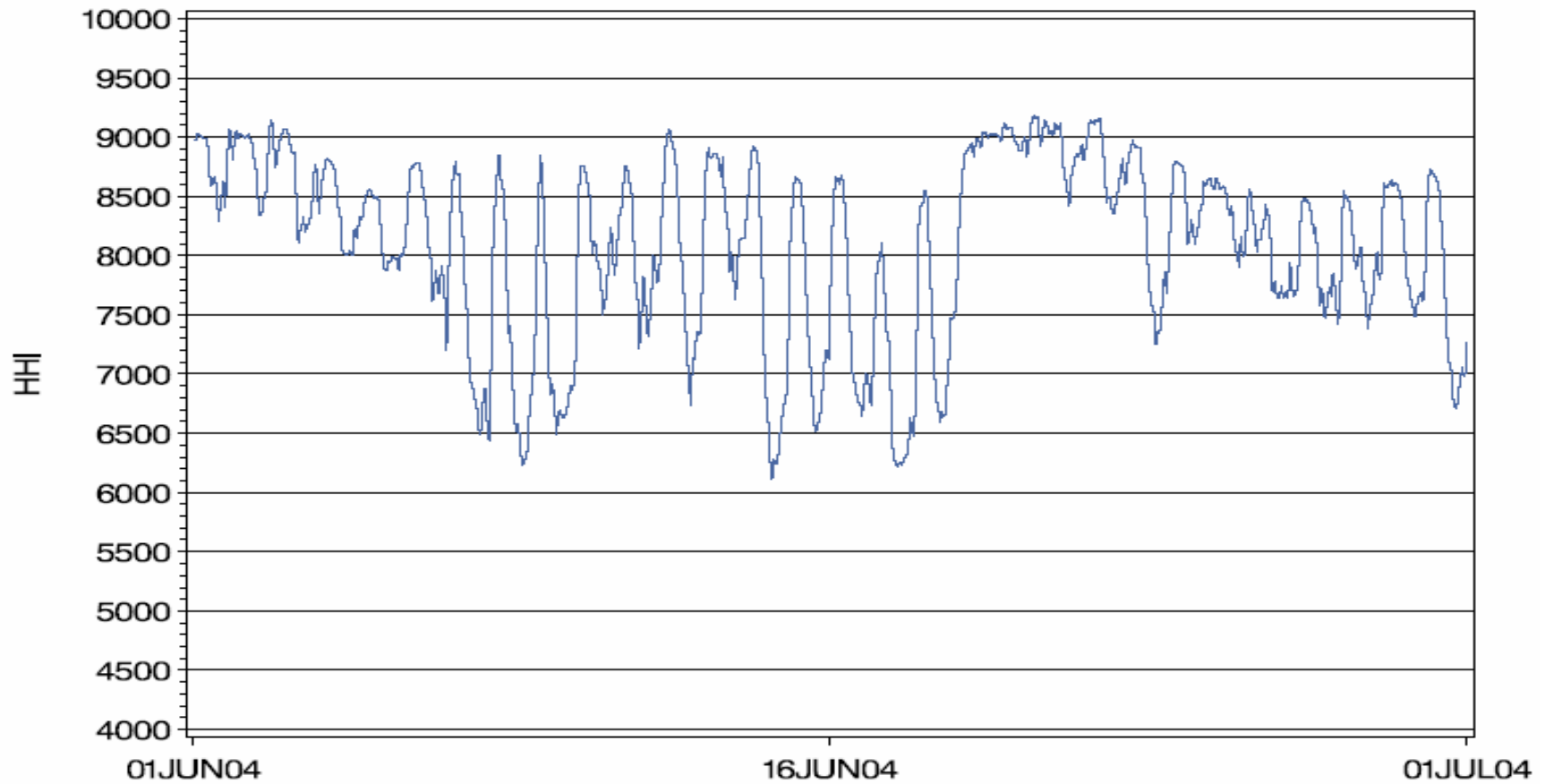


- NICA Capacity Market structural tests indicate significant potential market power.
- Results of NICA Capacity Market auctions were generally less than the proposed offer cap.

- Average capacity price per MW for the summer 2004 period was \$30.39.
- Average capacity price per MW for the fall 2004 period was \$25.88.
- Average capacity price per MW for the winter 2004/2005 period was \$25.66.
- Average capacity price per MW for the full planning period was \$27.86.

- The NICA energy market had high HHIs during June.
  - High HHIs reflect highly concentrated ownership of the units supplying energy on an hourly basis.
- The NICA energy market had low RSIs during June.
  - RSIs less than 1.0 indicate that a single supplier is pivotal during the hour.
- The pathway flows served to provide competitive pressures in the NICA energy market, offsetting the stand-alone structural market power concerns.

## NICA Hourly Energy Market HHI JUNE 2004



## NICA Residual Supply Index – May 2004 (Revised)

Number of Hours RSI < 1.10	Number of Hours RSI < 1.00	Percent of Hours RSI < 1.10	Percent of Hours RSI < 1.00	Overall Average RSI	Overall Minimum RSI
426	337	57%	45%	0.93	0.69

## NICA Residual Supply Index – June 2004

Number of Hours RSI < 1.10	Number of Hours RSI < 1.00	Percent of Hours RSI < 1.10	Percent of Hours RSI < 1.00	Overall Average RSI	Overall Minimum RSI
570	470	77%	63%	0.85	0.47