Aggregate TPS for Schedule 2 Penalties

MIC FCP Special Session

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Aggregate Market Power

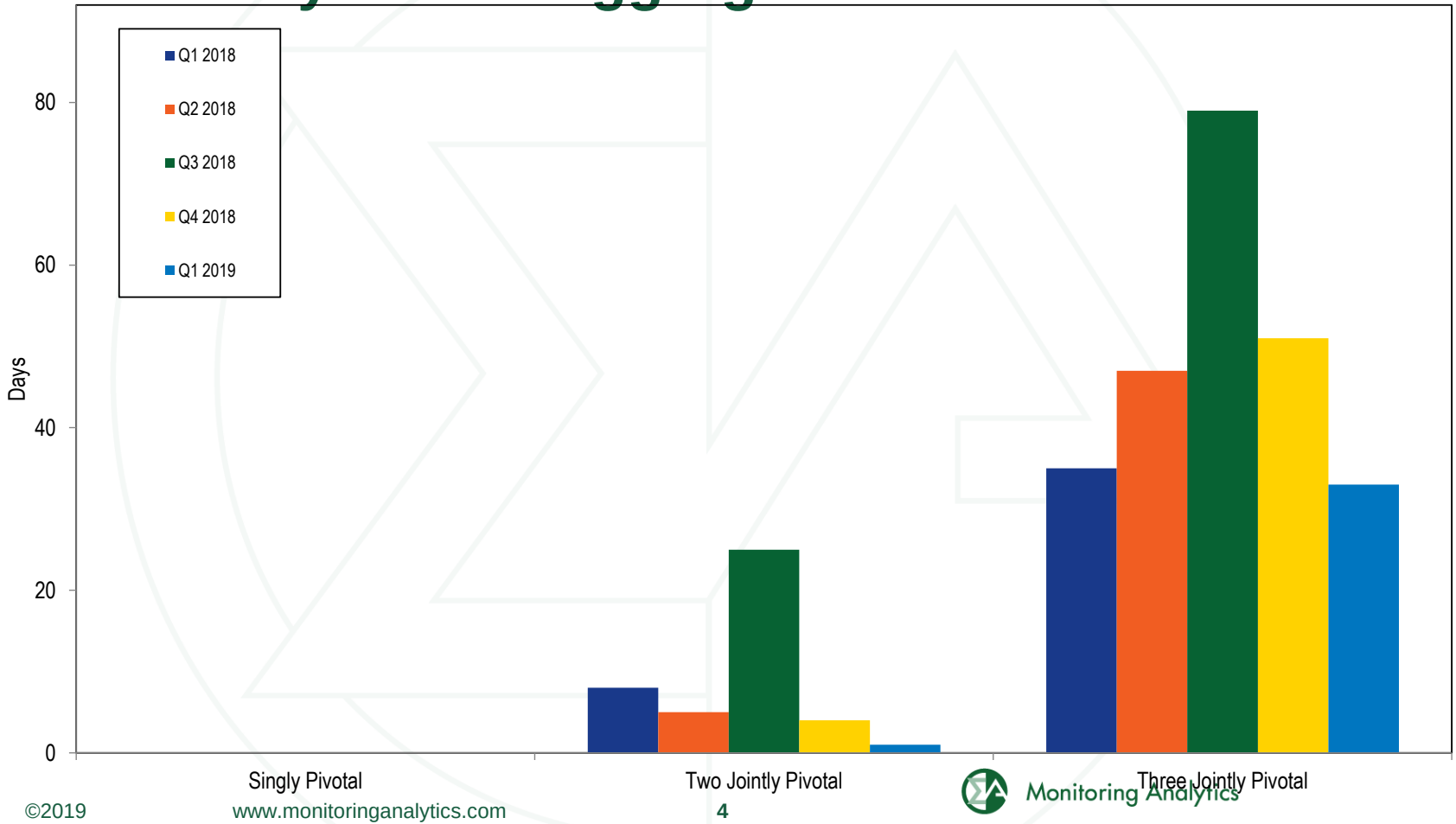
- **Aggregate market power is a supplier's ability to raise market prices or uplift payments because the market requires the supplier's generation to meet load.**
- **Aggregate market power can be assessed using a three pivotal supplier test in both the day ahead and real time markets.**

Day Ahead Aggregate TPS

- **Evaluate peak hour supply requirement, as measured by total scheduled supply**
- **Available supply to meet requirement**
  - **Generation capable of being online by the peak load hour**
  - **INCs, Economic DR, Imports**
  - **Cost is less than 150 percent of LMP**
- **TPS test fails for any supplier for which:**

$$Total\ Available\ MW - Supplier\ MW - Two\ Largest\ Suppliers'\ MW < Requirement\ MW$$

Day Ahead Aggregate TPS Results



Day Ahead Aggregate TPS Results for 2019

Pivotal Supplier Rank	Days Singly Pivotal	Percent of Days	Days Jointly Pivotal with One Other Supplier	Percent of Days	Days Jointly Pivotal with Two Other Suppliers	Percent of Days
1	0	0.0%	1	0.3%	33	9.0%
2	0	0.0%	0	0.0%	33	9.0%
3	0	0.0%	0	0.0%	33	9.0%
4	0	0.0%	0	0.0%	23	6.3%
5	0	0.0%	0	0.0%	15	4.1%
6	0	0.0%	0	0.0%	9	2.5%
7	0	0.0%	1	0.3%	7	1.9%
8	0	0.0%	0	0.0%	5	1.4%
9	0	0.0%	0	0.0%	5	1.4%
10 to 12	0	0.0%	0	0.0%	5	1.4%

Real Time Aggregate TPS

- Evaluate hourly supply requirement, as measured by total supply dispatched for the hour
- Available supply to meet requirement measured one hour before
  - Generation capable of starting and ramping in one hour
  - Economic DR, Imports
  - Cost is less than 150 percent of LMP
- TPS test fails for any supplier for which:

$$Total\ Available\ MW - Supplier\ MW - Two\ Largest\ Suppliers'\ MW < Requirement\ MW$$

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