

Fast-Start Capacity Data Requests

Cold TTS: Cost v. Price Schedules
Fast-Start Run Hours
March 13, 2018

1. How is the PJM fleet broken into start times?
 - For example, what percentage of the fleet needs 2 hours notice, 3 hours notice, 18 hours, 24 hours, etc.?

2. When are the 25,000 MW of fast-start (FS) resources running?
 - Are they used as “peakers”?
 - Are they on 15-16 hours a day?

- Cold Time-to-Start (TTS): Cost v Price Schedules
 - Winter, Spring, Summer and Fall Peak Day
 - TTS Cost Schedule vs Price Schedule¹
 - TTS only (all resources² regardless of minimum run time)
 - TTS where minimum run time is less than or equal to 2 hours
- FS³ Capacity Run Hours
 - Winter, Spring, Summer and Fall Peak Day
 - Capacity expressed as the sum of total EcoMax for FS resources that ran during the seasonal peak operating day over the sum of total EcoMax of resources that operated on that day

Notes:

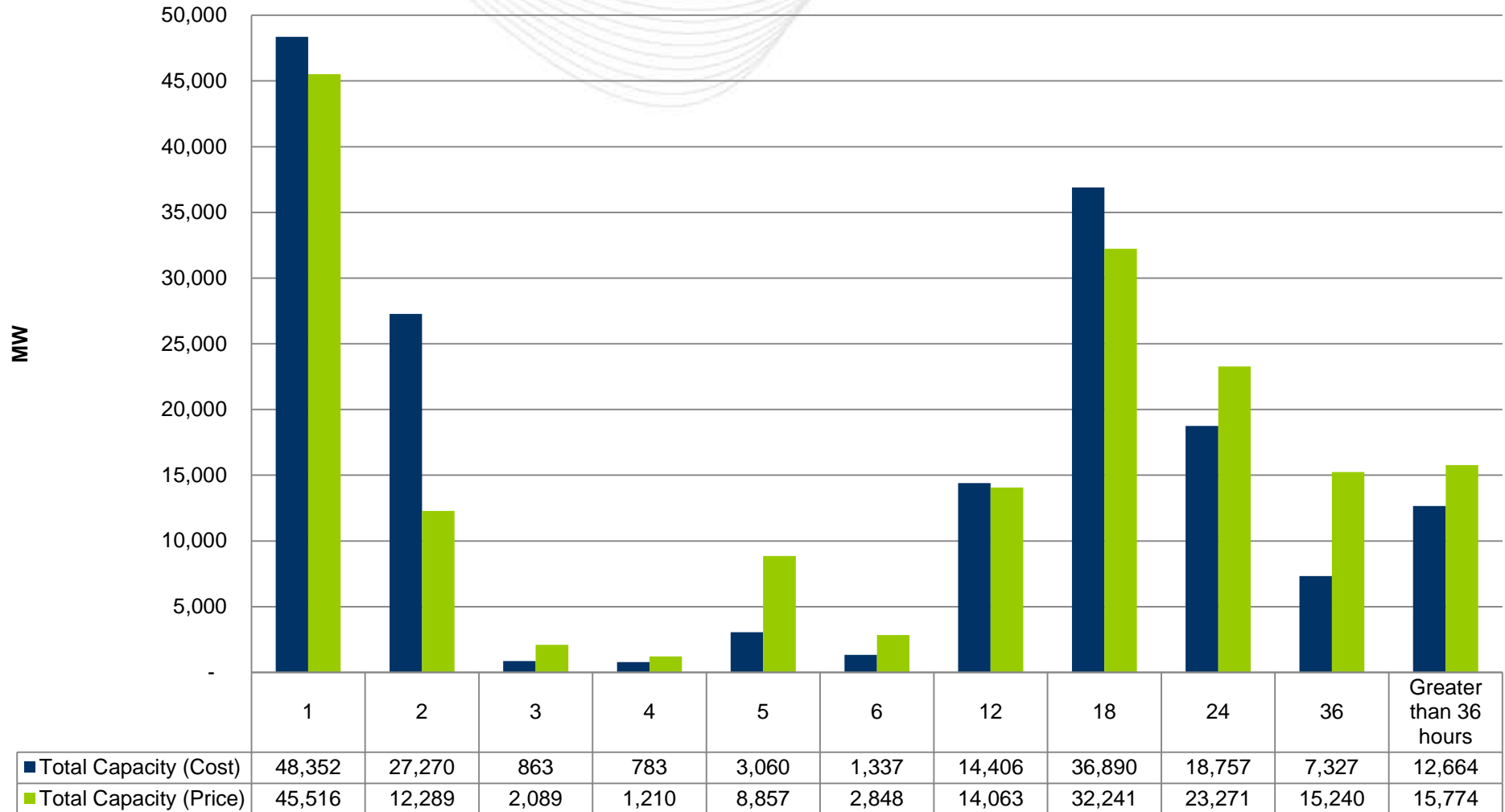
1) *The most flexible cost schedule was used for resources that did not offer in a price schedule*

2) *Excluding hydro*

3) *FS defined as 2 hour or less time-to-start and 2 hour or less minimum run time; excludes hydro*

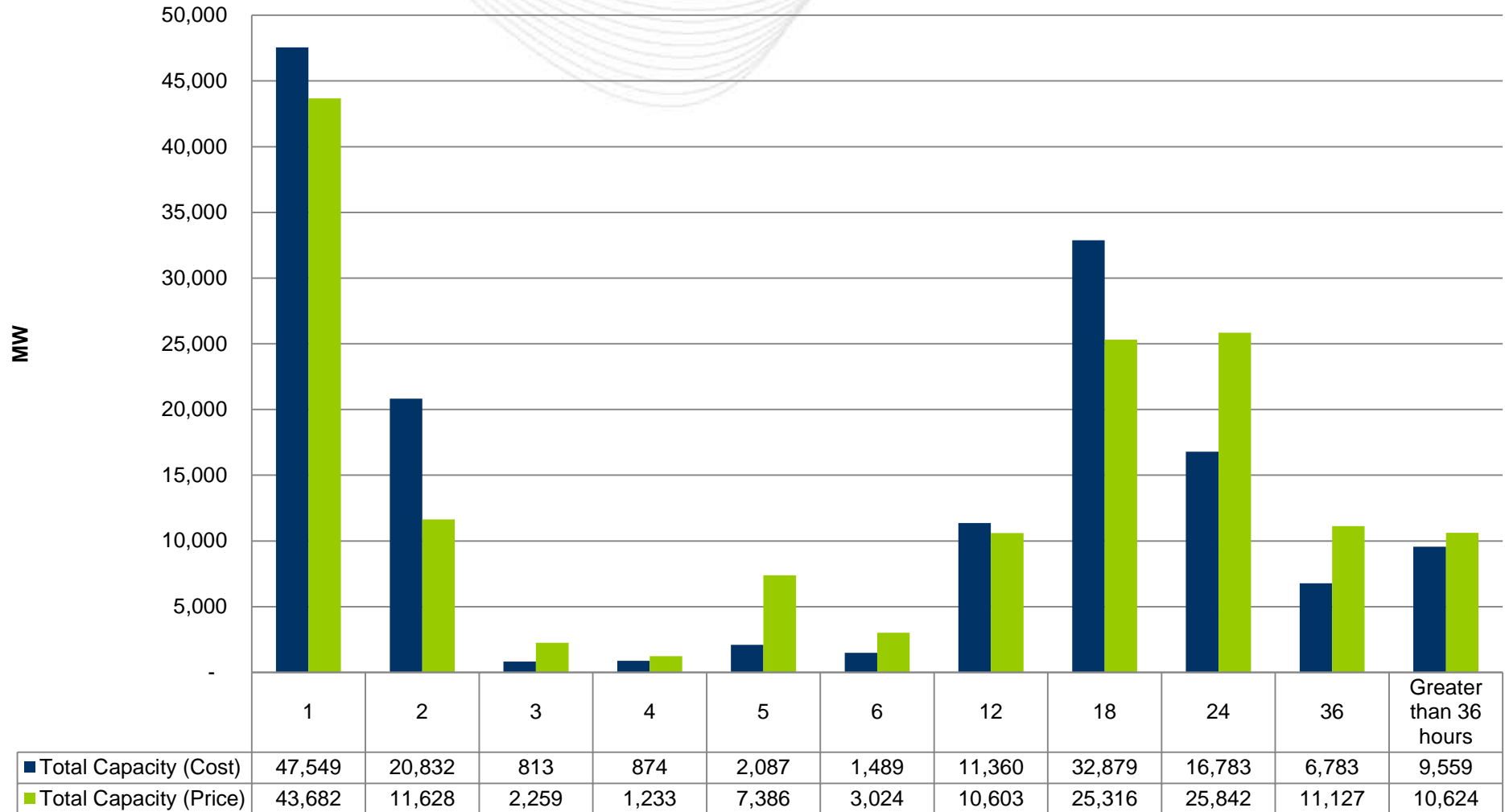
Cold TTS: Cost v Price Schedules

Winter Peak Day
January 9, 2017



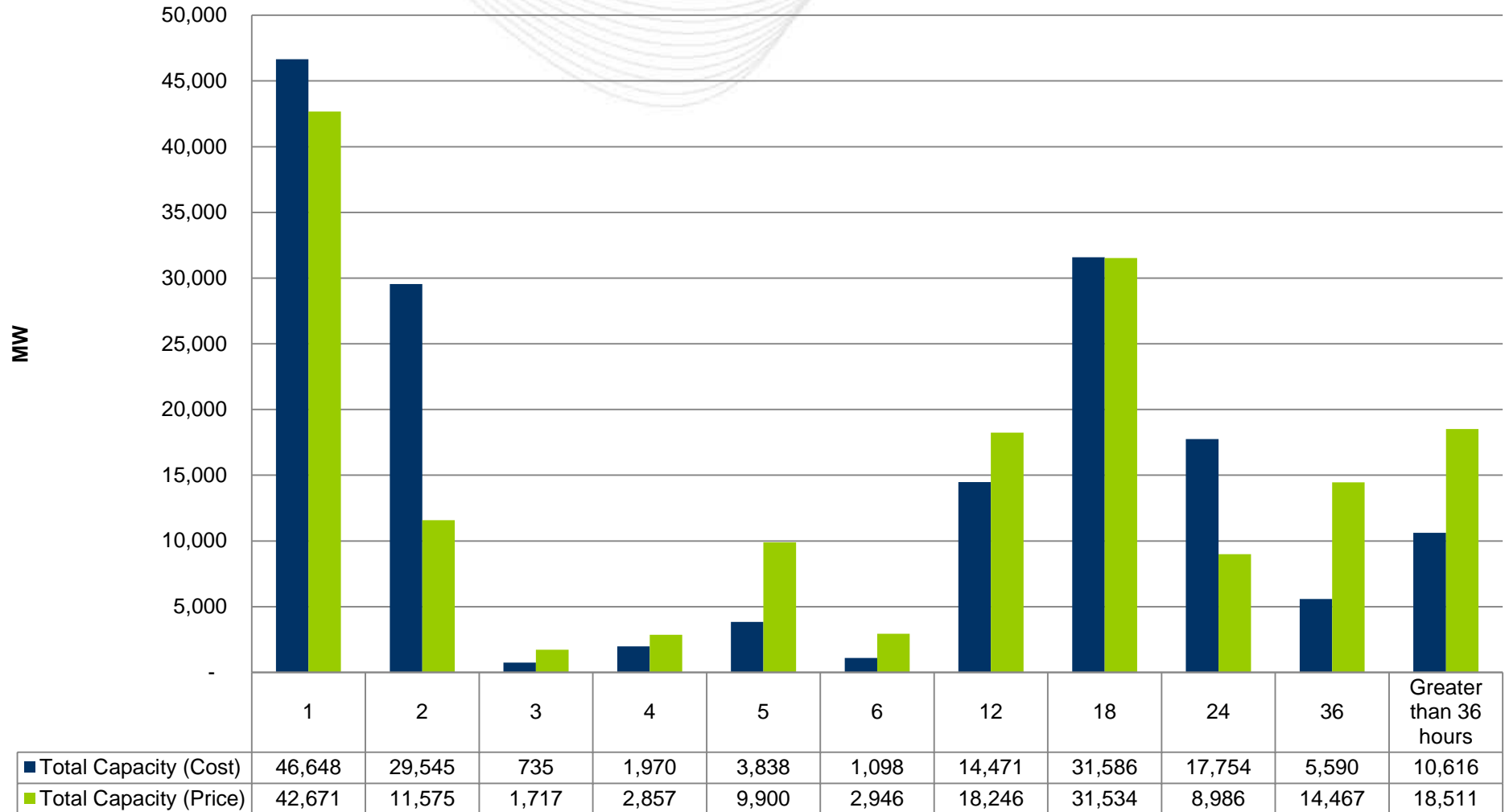
Cold TTS: Cost v Price Schedules

Spring Peak Day
May 18, 2017



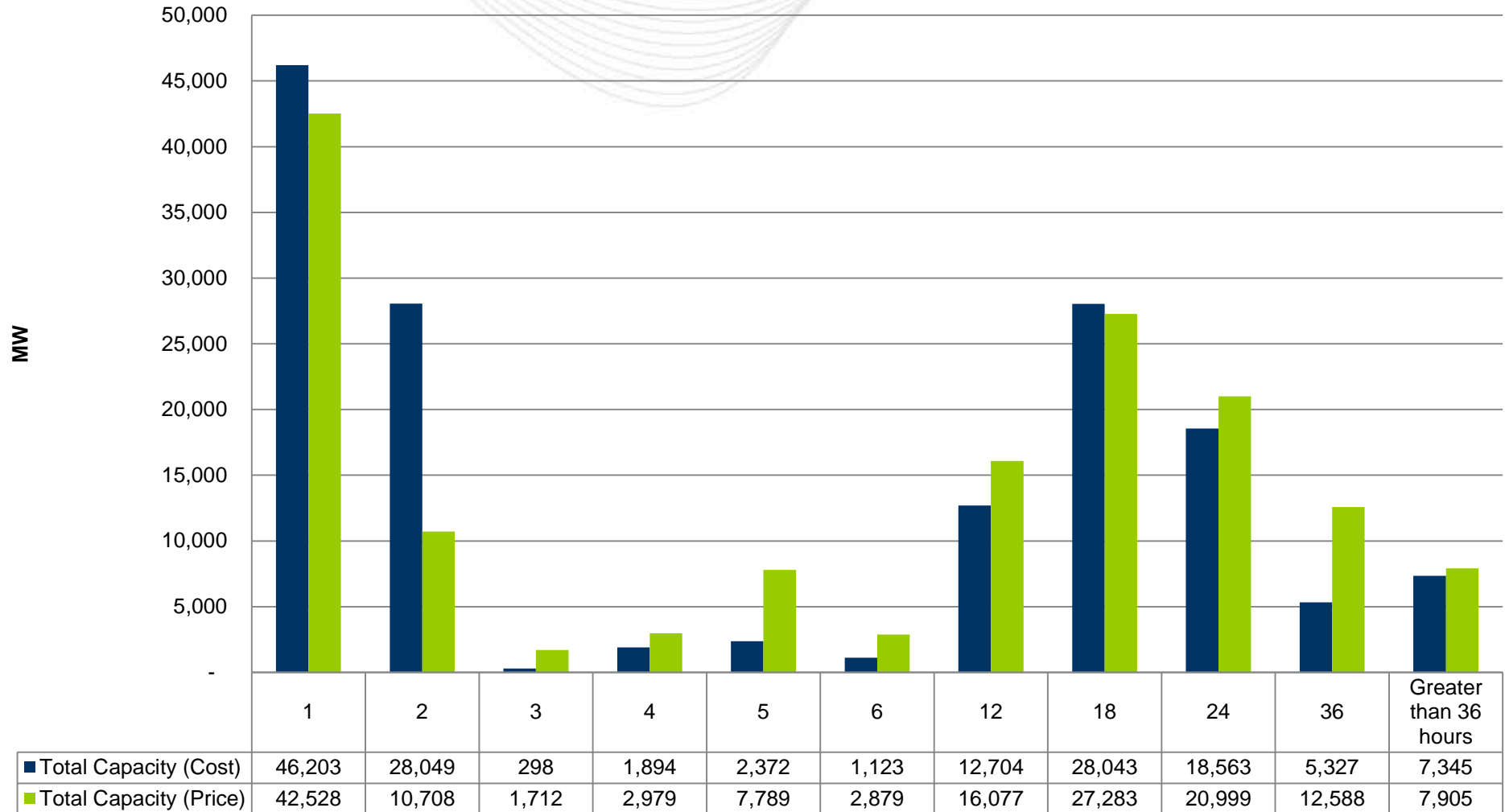
Cold TTS: Cost v Price Schedules

Summer Peak Day
July 19, 2017



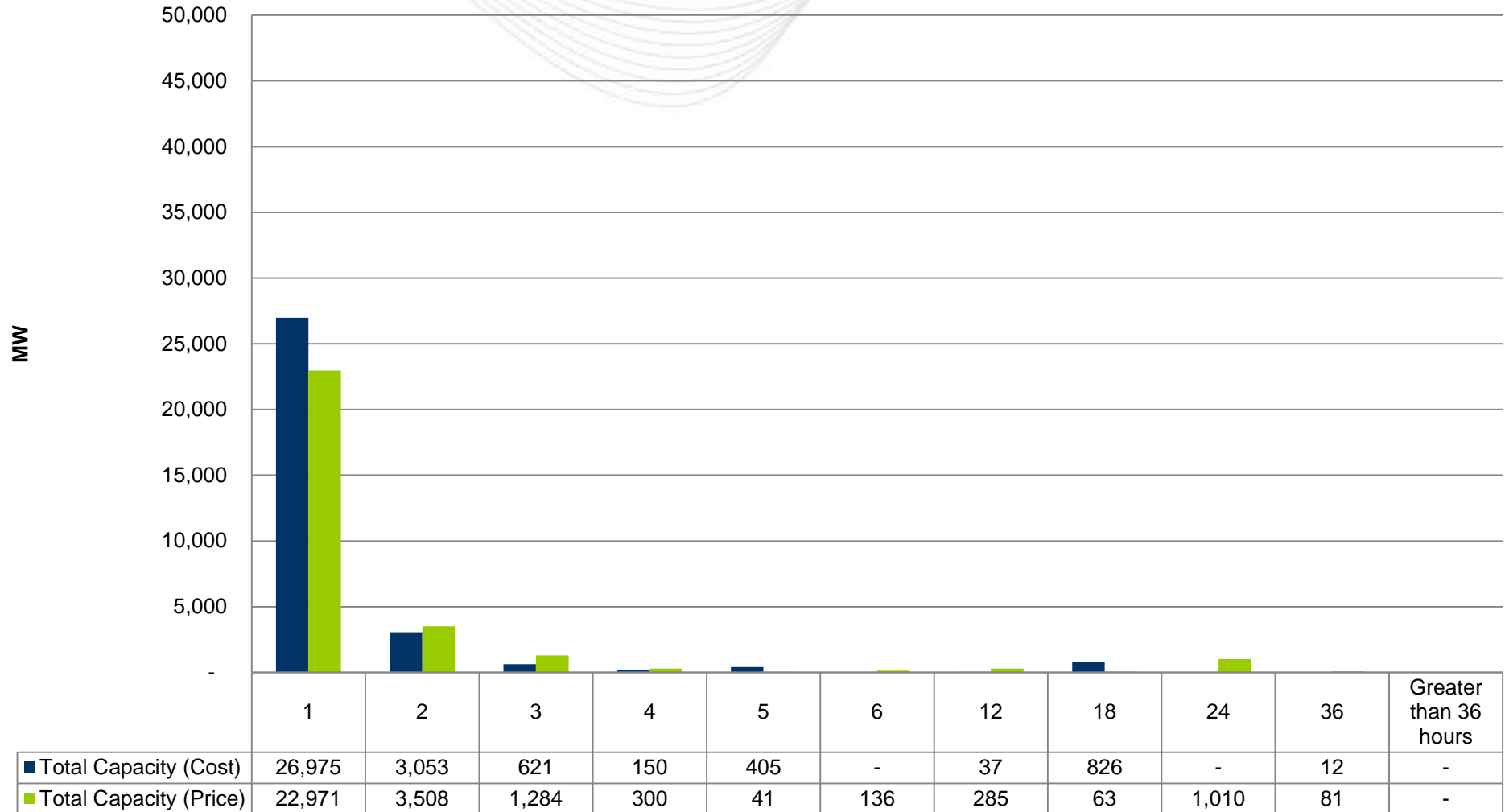
Cold TTS: Cost v Price Schedules

Fall Peak Day
September 25, 2017



Cold TTS where MRT =< 2 hrs: Cost v Price Schedules

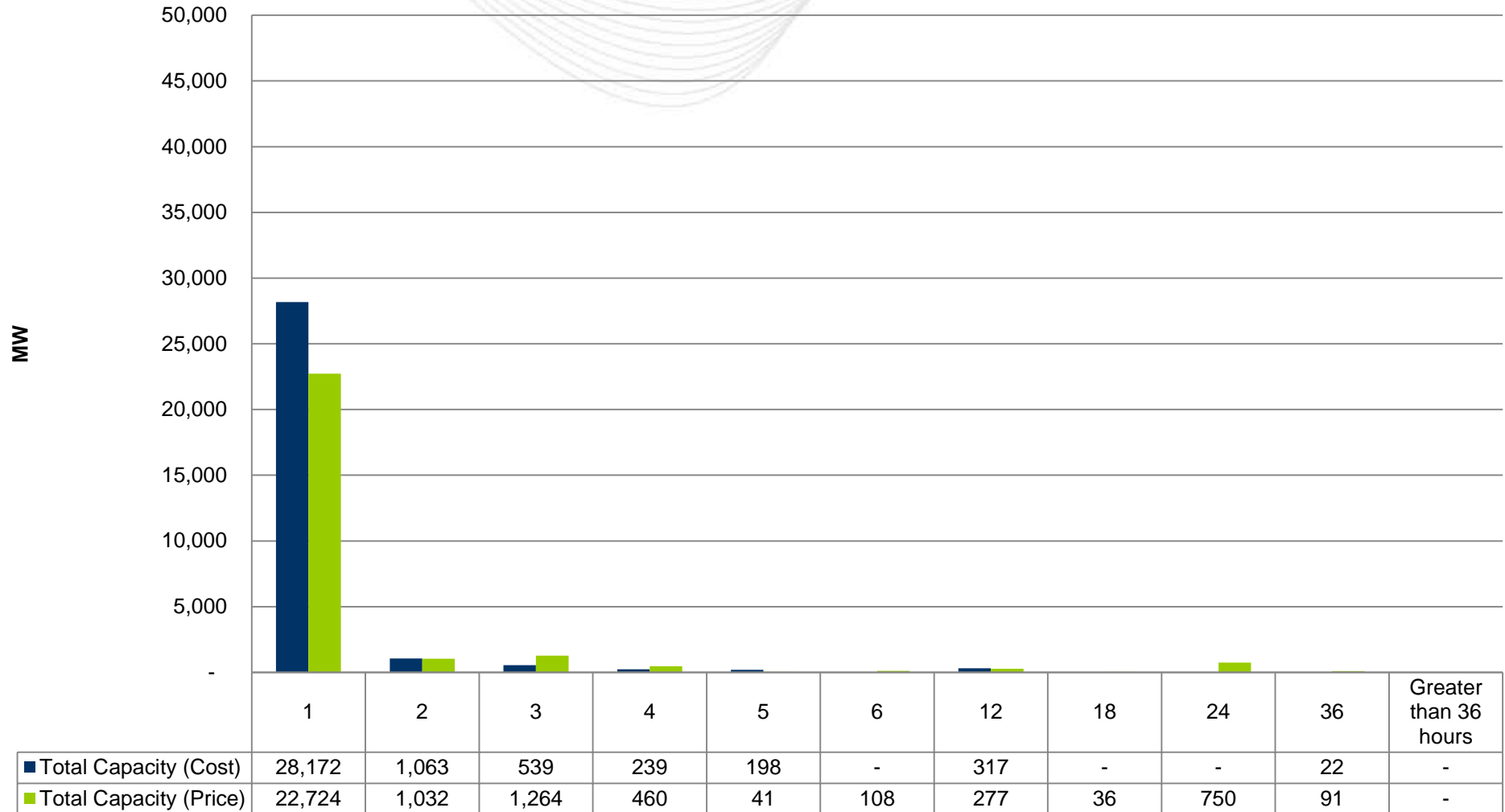
Winter Peak Day
January 9, 2017





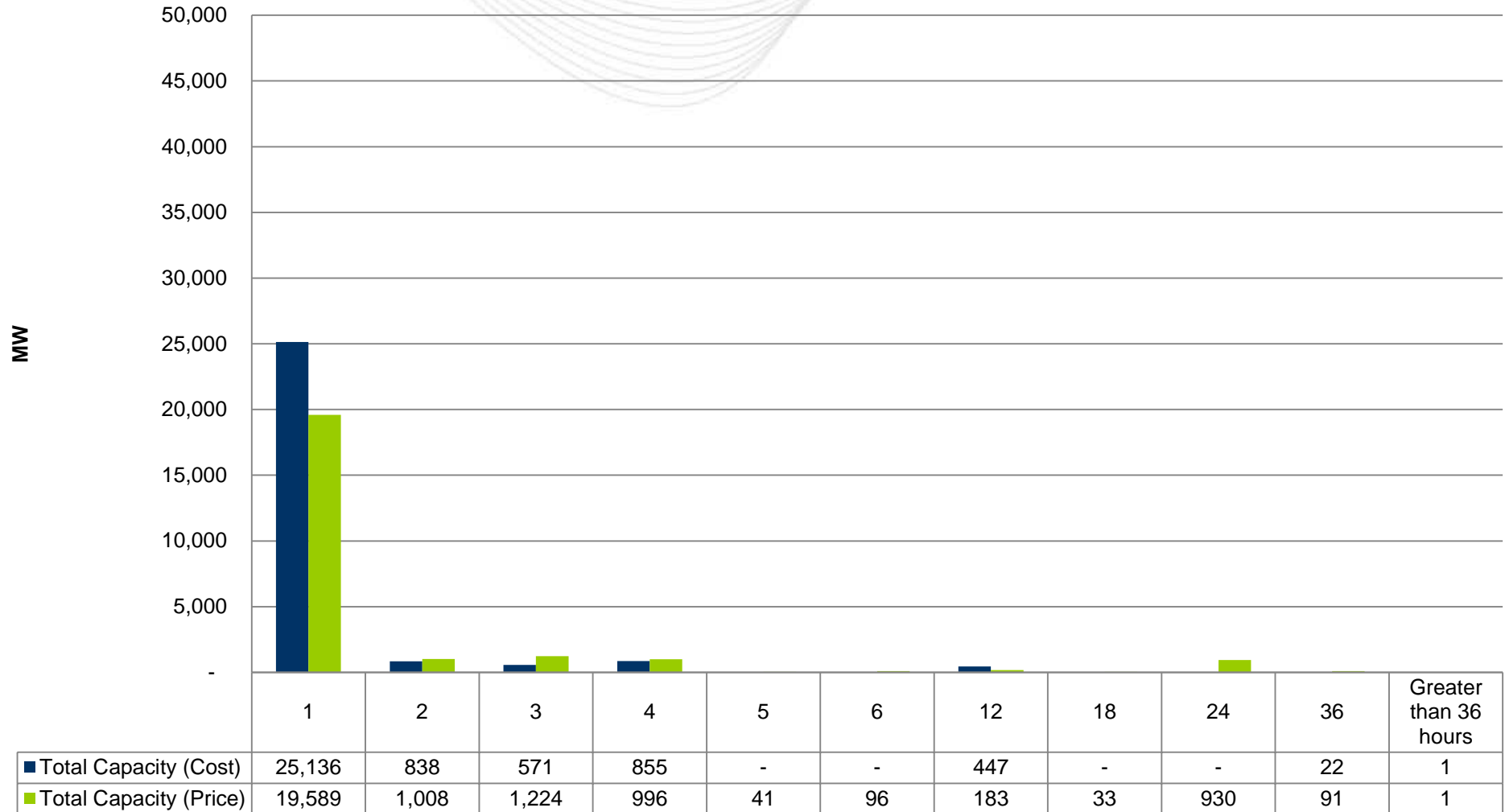
Cold TTS where MRT =< 2 hrs: Cost v Price Schedules

Spring Peak Day
May 18, 2017



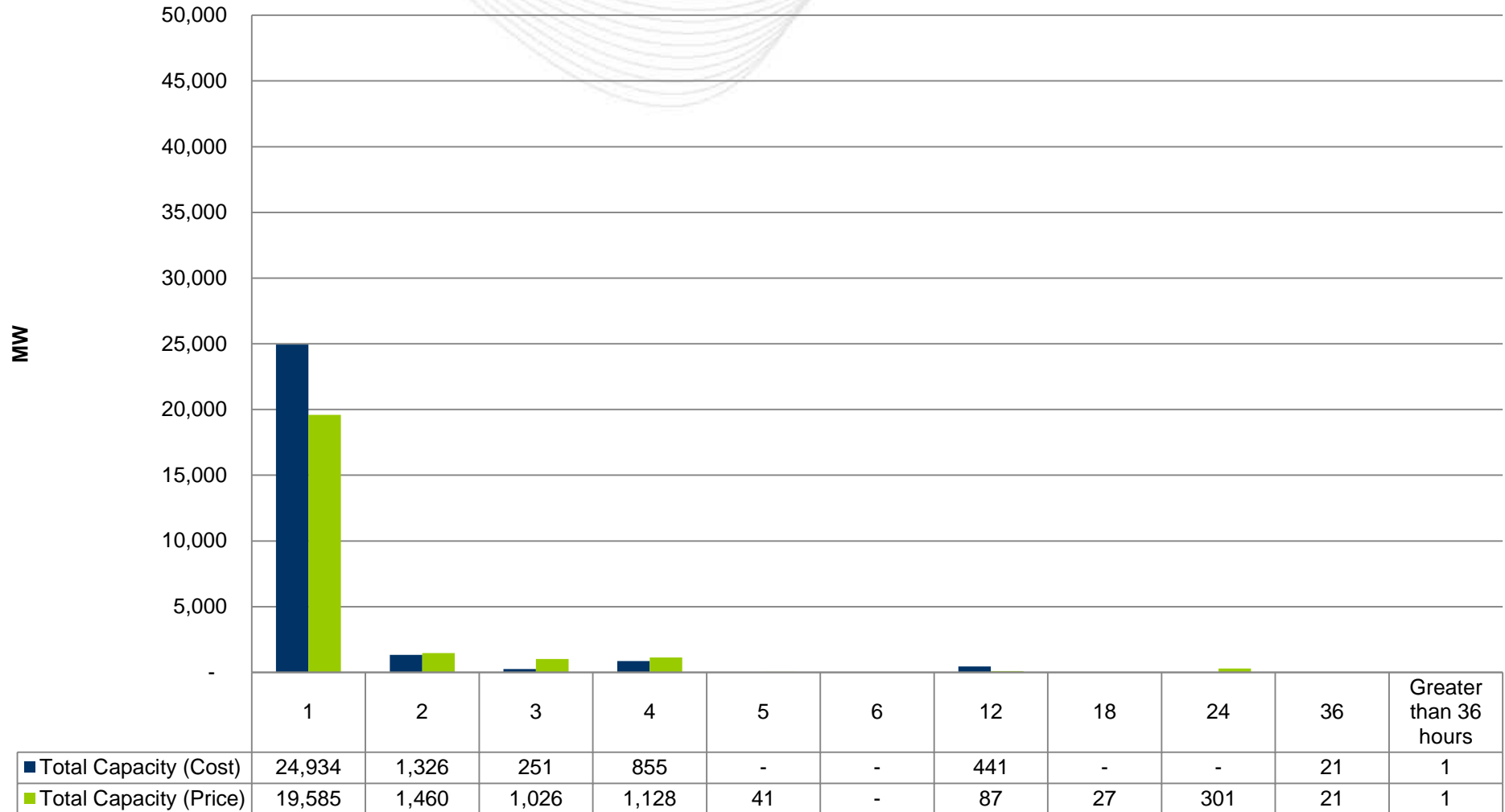
Cold TTS where MRT =< 2 hrs: Cost v Price Schedules

Summer Peak Day
July 19, 2017



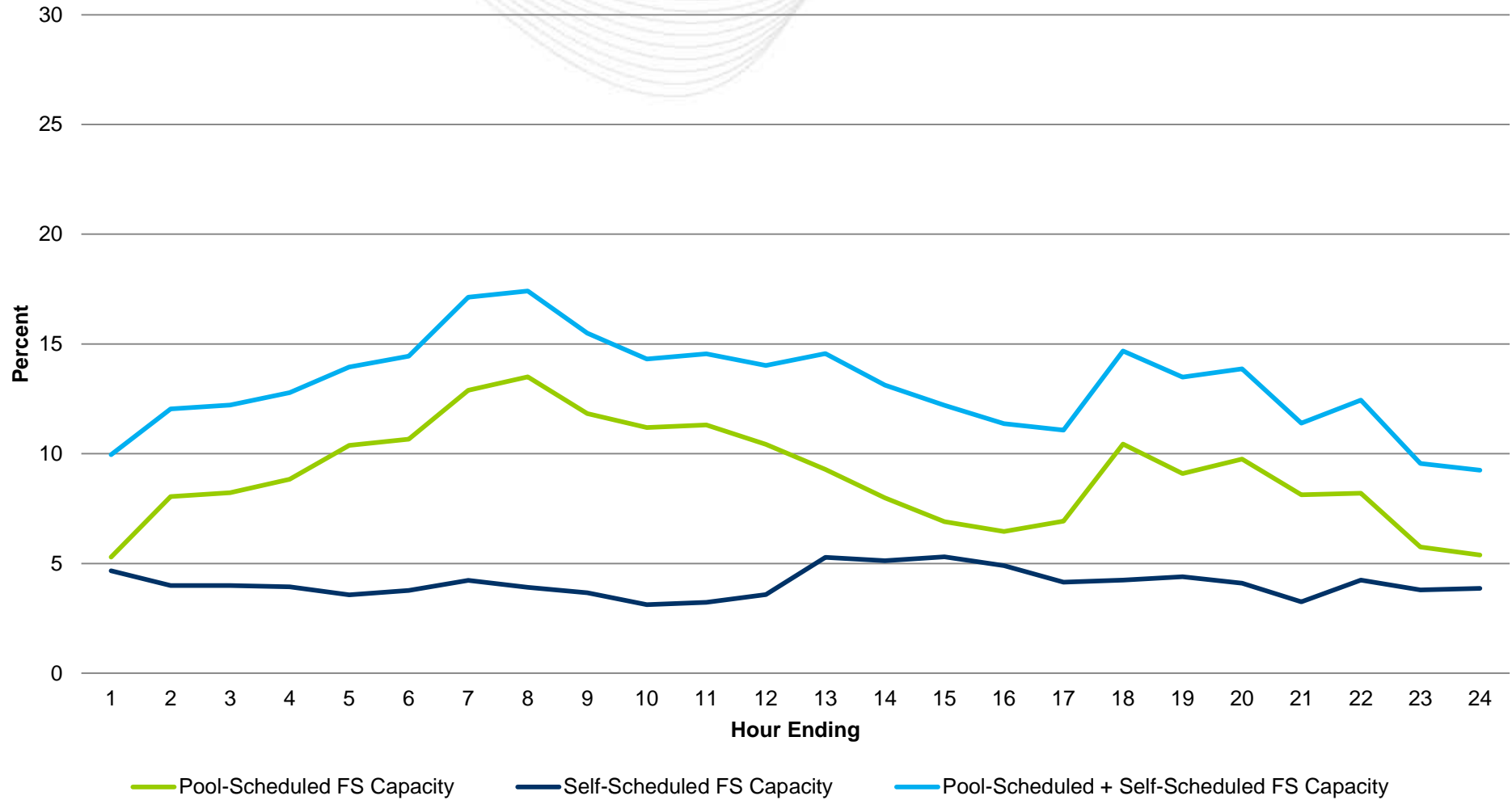
Cold TTS where MRT =< 2 hrs: Cost v Price Schedules

Fall Peak Day
September 25, 2017



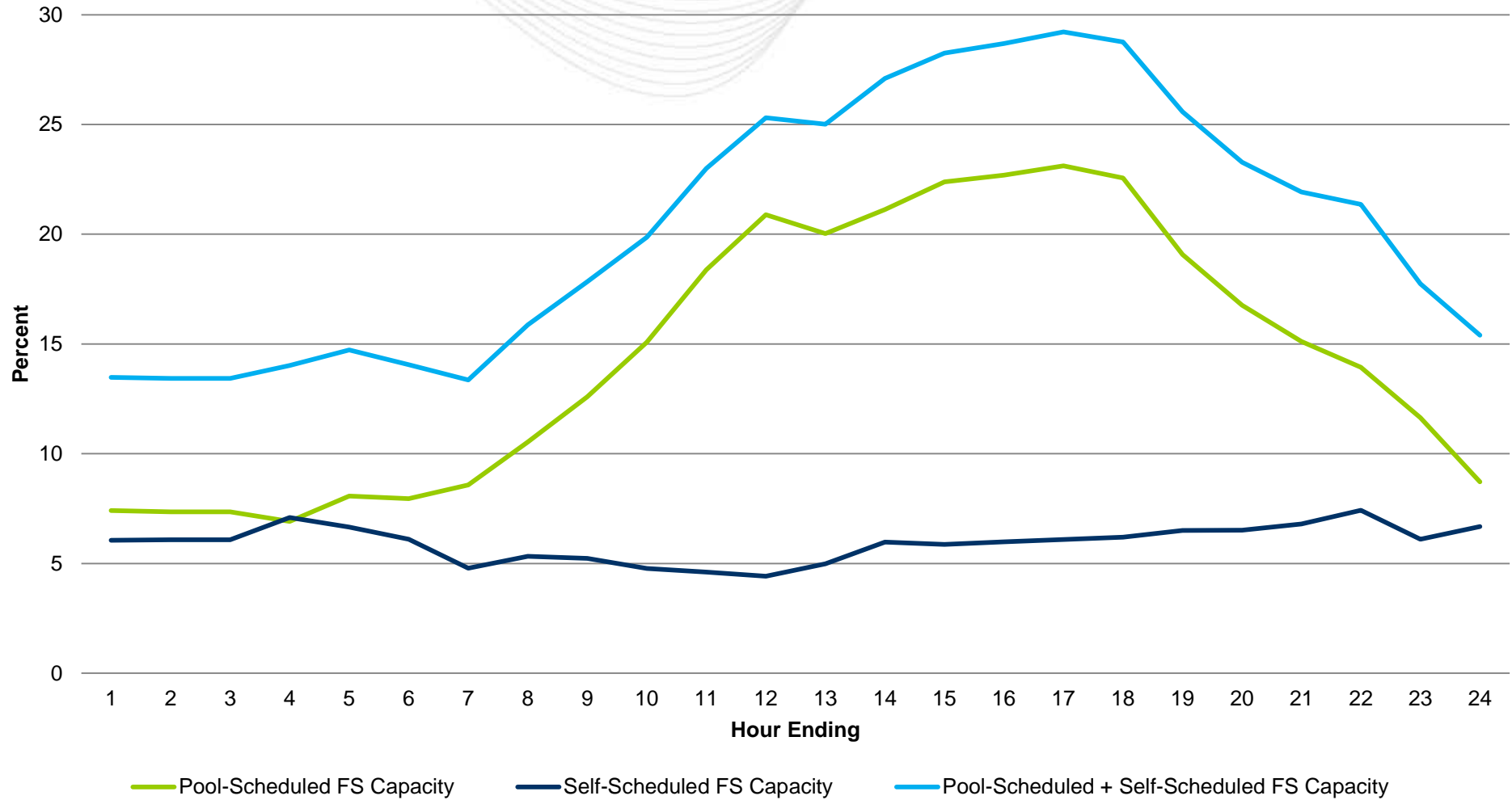
FS as a Percent of Total Capacity

**Winter Peak Day
January 9, 2017**



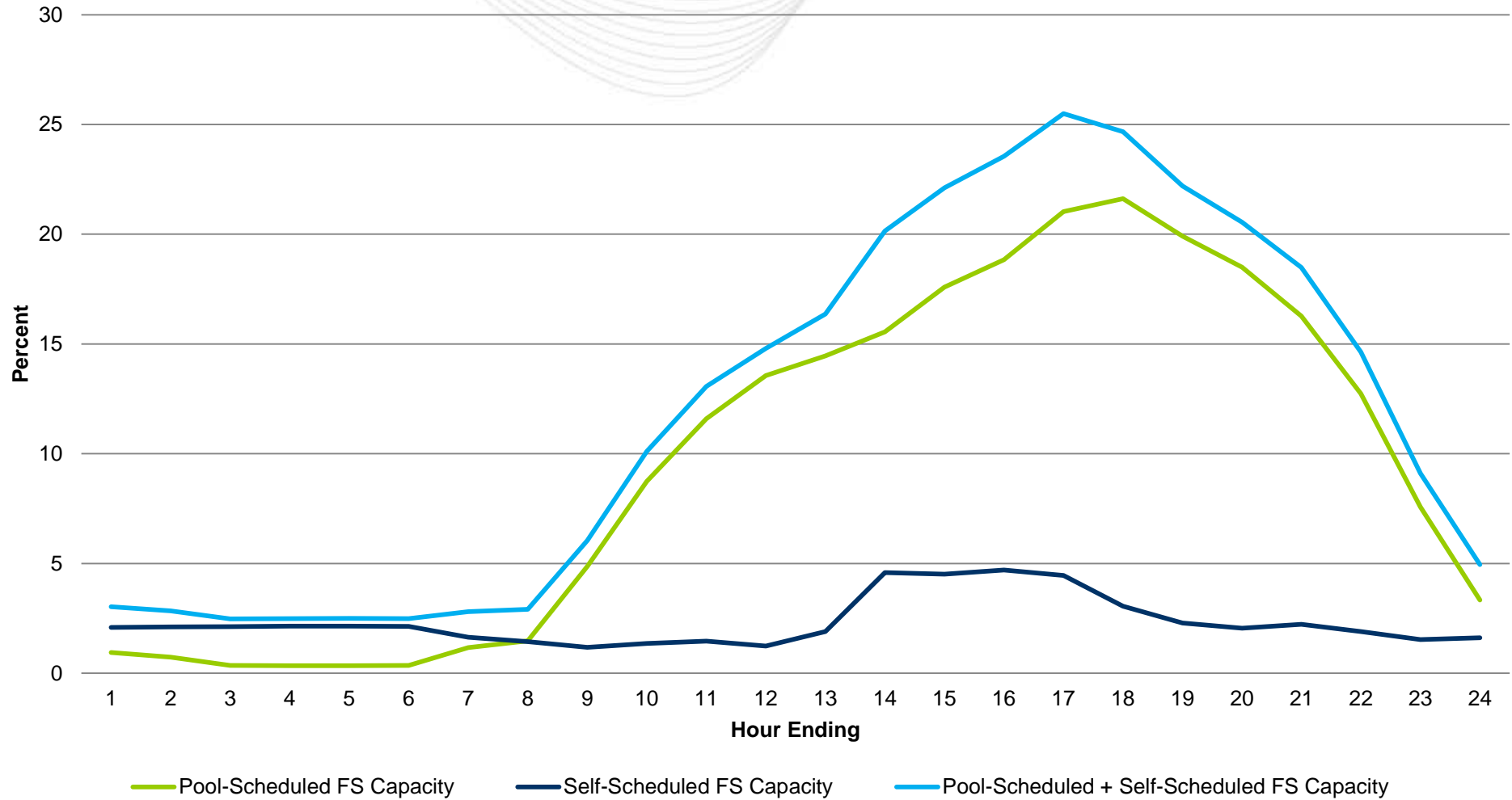
FS as a Percent of Total Capacity

**Spring Peak Day
May 18, 2017**



FS as a Percent of Total Capacity

Summer Peak Day
July 19, 2017



FS as a Percent of Total Capacity

**Fall Peak Day
September 25, 2017**

