

Demand Response Event Performance (mandatory vs voluntary)

SCSTF

5/6/16



DR availability requirements

mandatory event – required to respond or receive penalty
 voluntary event – no capacity penalty

Requirement	(Today) Limited DR (15/16 – 17/18)	(Today) Extended Summer DR (15/16 – 17/18)	(Today) Annual DR (16/17 – 17/18)	(CP) Base Capacity DR (18/19 & 19/20 DY only)	(CP) Capacity Performance DR (16/17 DY & beyond)
Availability	Non-NERC holiday weekday, June – Sept	June – Oct & May	Any day during DY*	June - Sep	Any day during DY*
Maximum Number of Interruptions	10 interruptions	Unlimited	Unlimited	Unlimited	Unlimited
Hours of Day Required to Respond (Hours in EPT)	12:00 PM – 8:00 PM	10:00 AM – 10:00 PM	June – Oct & May: 10 AM – 10 PM Nov. – April: 6 AM- 9 PM	10:00 AM – 10:00 PM	June – Oct. & May: 10 AM – 10 PM Nov. – April: 6 AM- 9 PM
Maximum Duration of Interruption	6 Hours	10 Hours	June – Oct : 12 hours Nov – April: 15 hours	10 Hours	June – Oct : 12 hours Nov – April: 15 hours

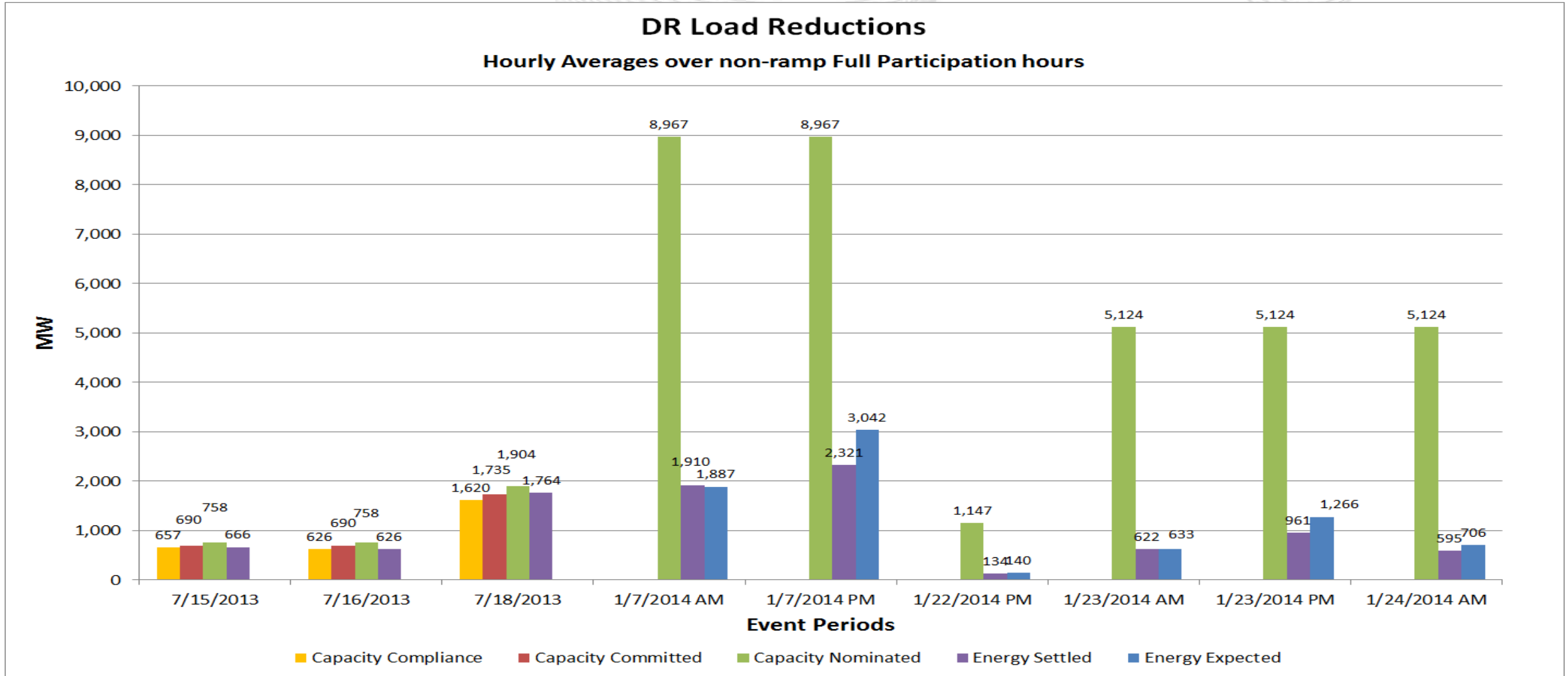
*unless on an approved maintenance outage during Oct – Apr.

Delivery year	Event performance	Test performance
2009/10	No Events	118%
2010/11	100%	111%
2011/12	91%	107%
2012/13	104%	116%
2013/14	94%	129%
2014/15	No Events	144%
2015/16	No Events	133%

See Annual Load Management Performance Report for Details
<http://www.pjm.com/markets-and-operations/demand-response.aspx>

- Capacity nomination – capacity load reduction expected from individual registration. Sum of capacity nomination may be \geq or \leq capacity commitment
- Capacity commitment – load reduction that must be achieved to avoid penalty.
- Capacity compliance – load reduction achieved during event
- Energy Settled – amount of energy load reduction that received energy market compensation during event
- Energy Expected – expected energy load reduction reported by CSP to PJM in advance to use for PJM dispatch decisions.

Capacity Load Reduction calculated different than Energy Load Reductions



- Mandatory Events
 - Energy Settlements very close to Capacity Compliance amount
 - Energy Settlements/Capacity Registered = 88%
- Voluntary Events
 - Energy Settlements/Capacity Registered = 12 to 25% or average 19%

Minimal experience but there are significant capacity load reductions in winter for voluntary events