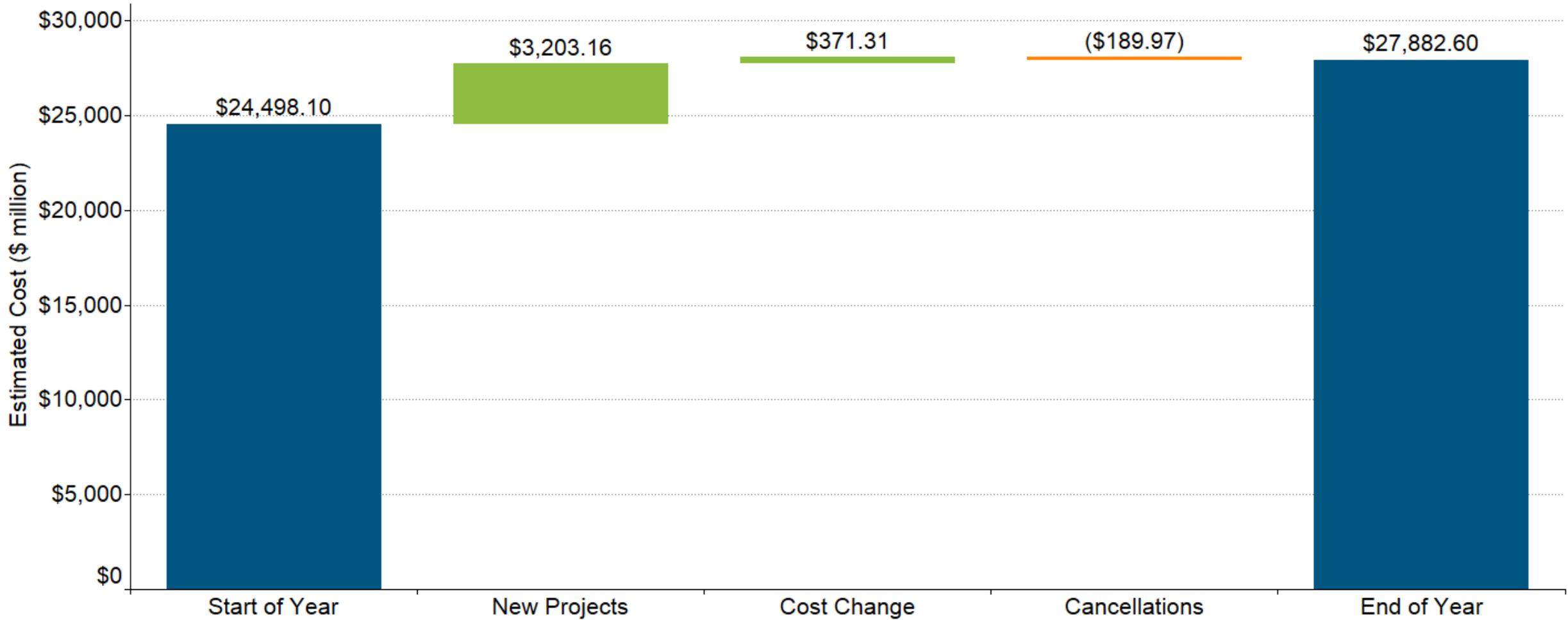


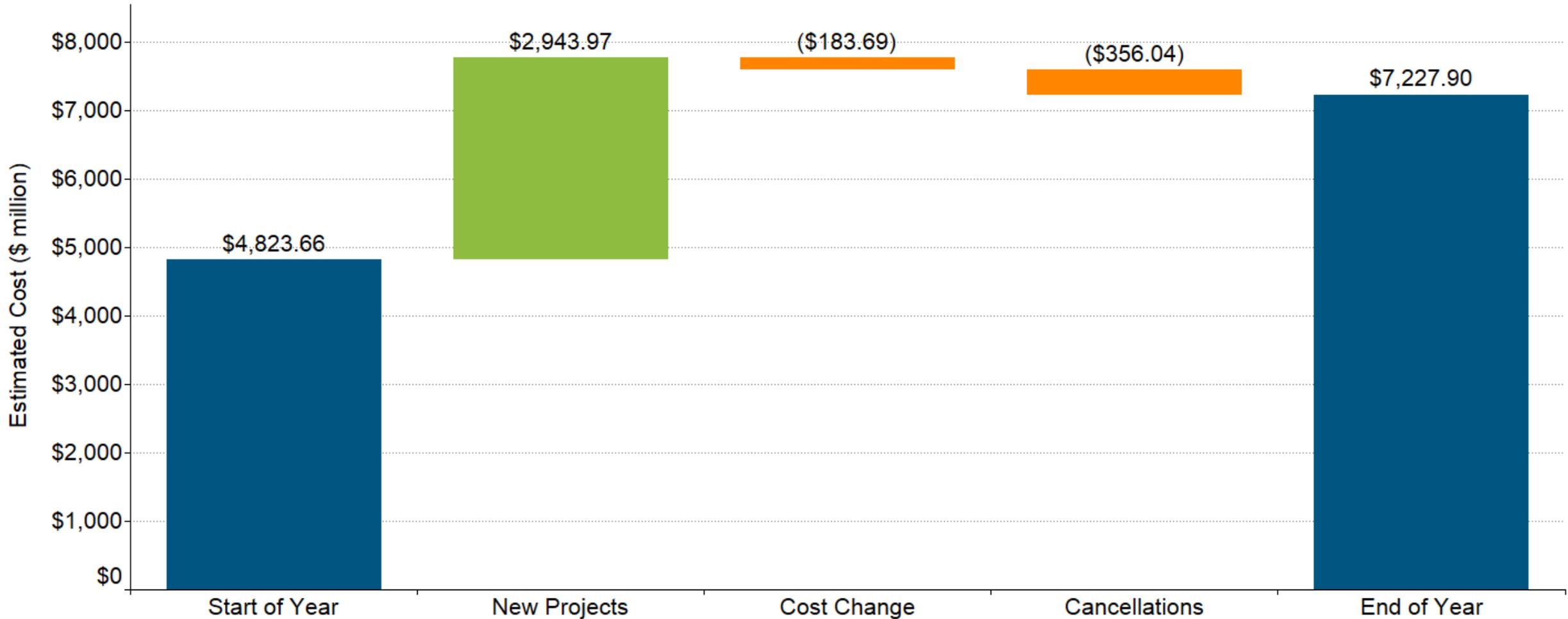


# Project Statistics

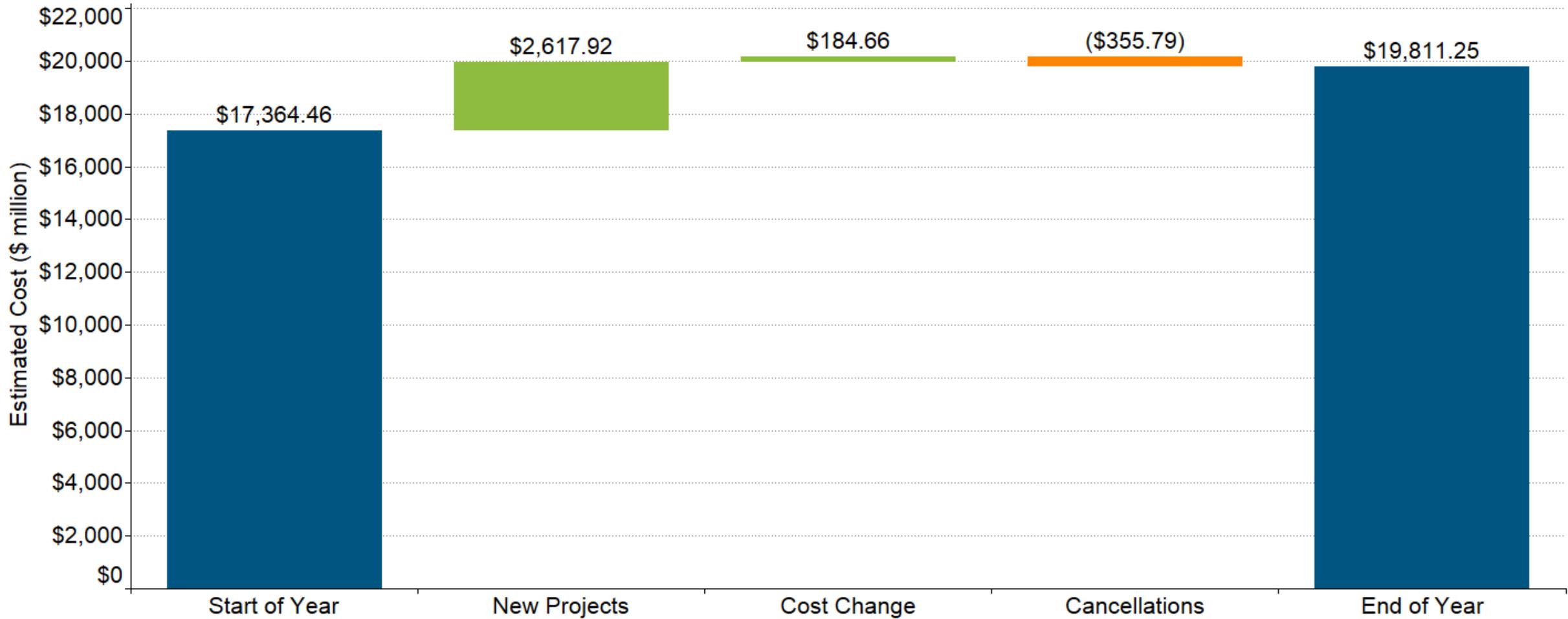
- This is information-only posting, prepared based on stakeholder feedback and is anticipated to be updated following the periodic PJM Board meetings along with the “TEAC Whitepaper” documents that are typically posted.
- Each slide summarizes projects based on the estimated costs presented at the TEAC or Subregional TEAC meetings.
  - Costs are provided by the Designated Entity or Transmission Owners. Cost estimation methods may vary by company. Estimated costs in this document may include cost caps or cost containment even though it isn’t specifically noted
  - Cost estimates may change over time as new information is known and incorporated into the estimate by the project sponsor, this document reflects the current estimates that are provided to PJM
  - A single cost is provided for each project identifier, without any additional breakdown (for example, cost by state)
- This information is not part of the TEAC agenda. PJM requests feedback in writing through the [Planning Community](#) tool.



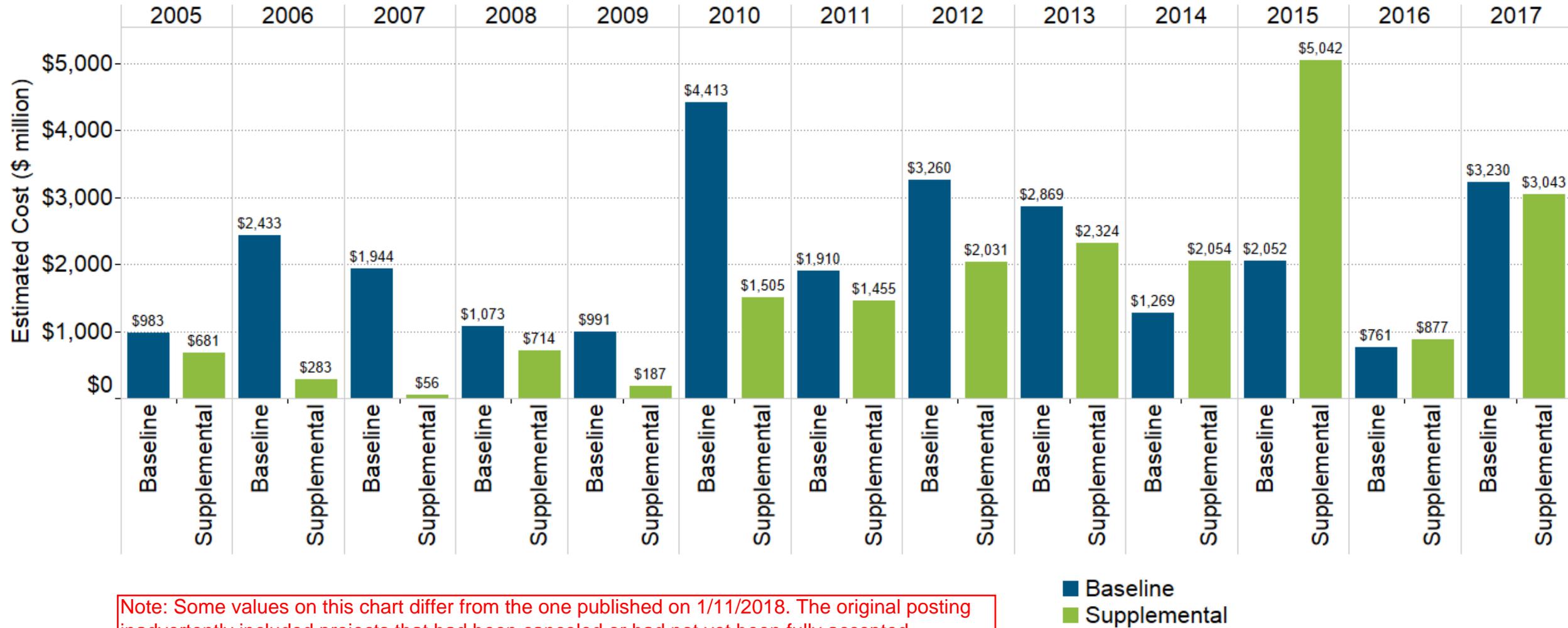
# 2017 Changes to the RTEP Generation and Merchant Network Upgrade Projects



# 2017 Supplemental Projects Presented by TOs to TEAC/Sub-regional TEAC Meetings

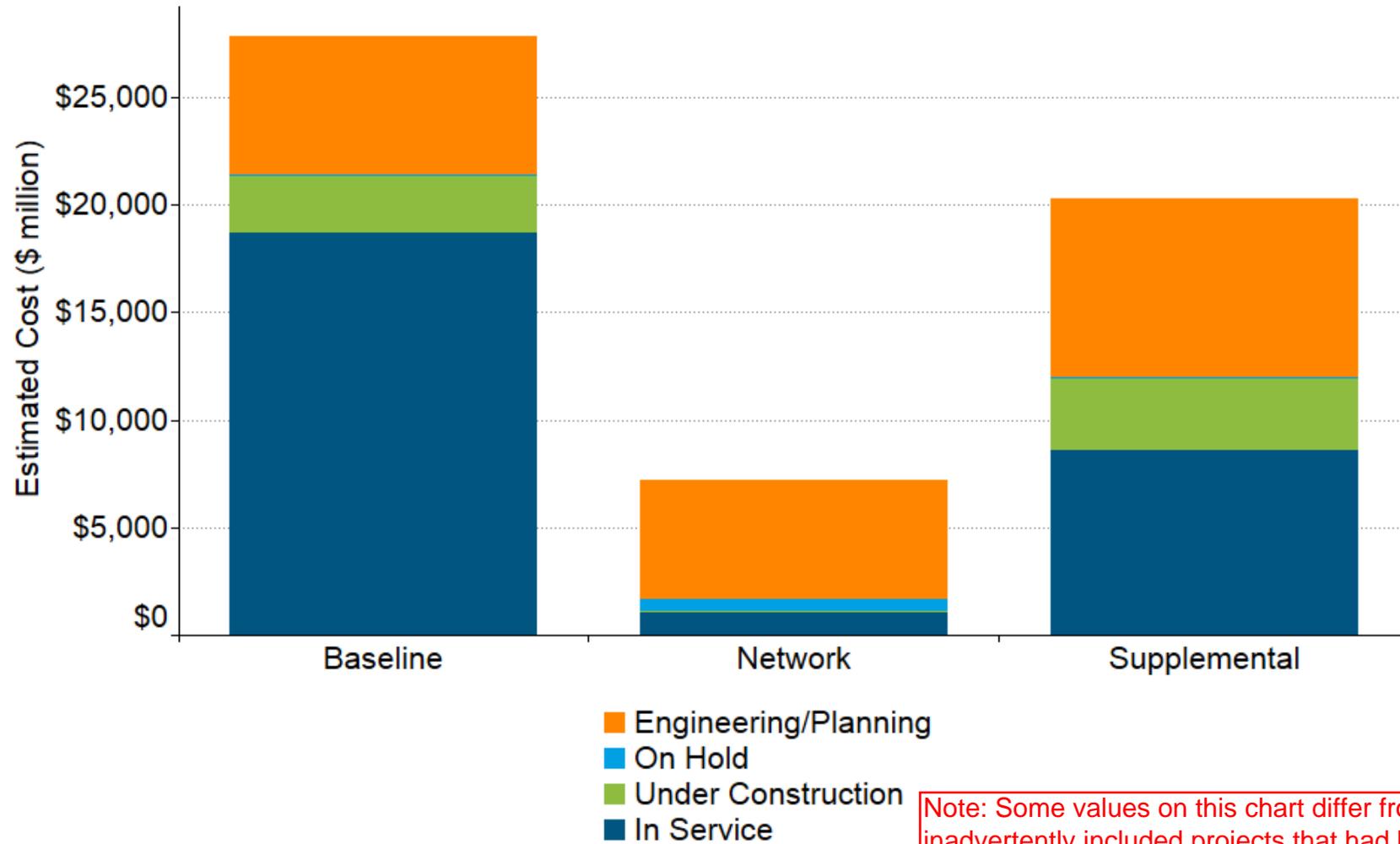


# New Baseline and Supplemental Projects by Year



Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

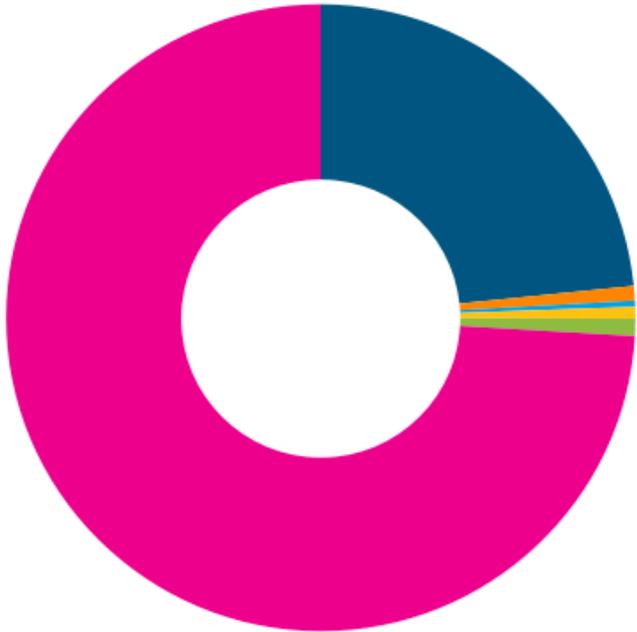
■ Baseline  
■ Supplemental



	Baseline	Network	Supplemental
Engineering/Planning	\$6,456	\$5,532	\$8,262
On Hold	\$34	\$567	\$77
Under Construction	\$2,614	\$95	\$3,343
In Service	\$18,726	\$1,028	\$8,590
<b>Grand Total</b>	<b>\$27,830</b>	<b>\$7,223</b>	<b>\$20,272</b>

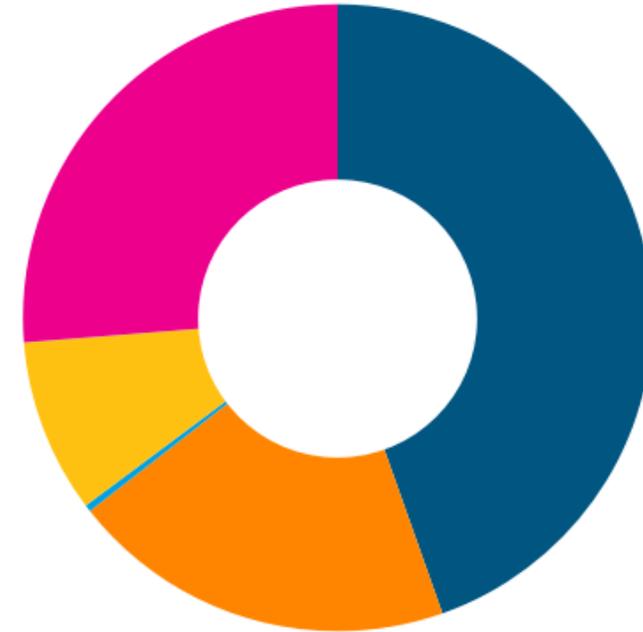
Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

### Estimated Cost of Baseline Projects Approved by PJM Board



Baseline Load Growth Deliverability & Reliability	\$755
Congestion Relief - Economic	\$24
Generator Deactivation	\$10
Operational Performance	\$21
Short Circuit	\$28
TO Criteria Violation	\$2,392

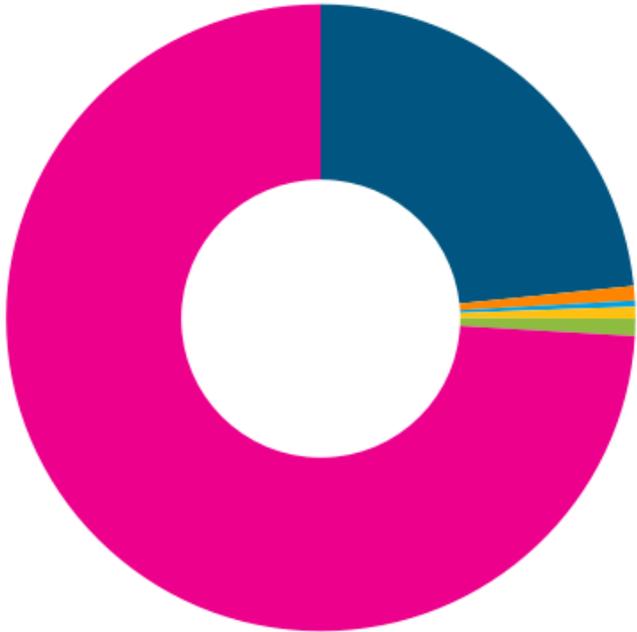
### Estimated Cost of Supplemental Projects Presented by TOs to the TEAC



Equipment Material Condition, Performance and Risk	\$1,358
Operational Flexibility and Efficiency	\$603
Infrastructure Resilience	\$11
Customer Service	\$273
Other	\$0
Multiple Drivers	\$798

Note: Some values on this chart differ from the one published on 1/11/2018. 27 projects for a total of \$24.8M was misidentified as Load Growth rather than Short Circuit.

**Estimated Cost of Baseline Projects  
Approved by PJM Board**



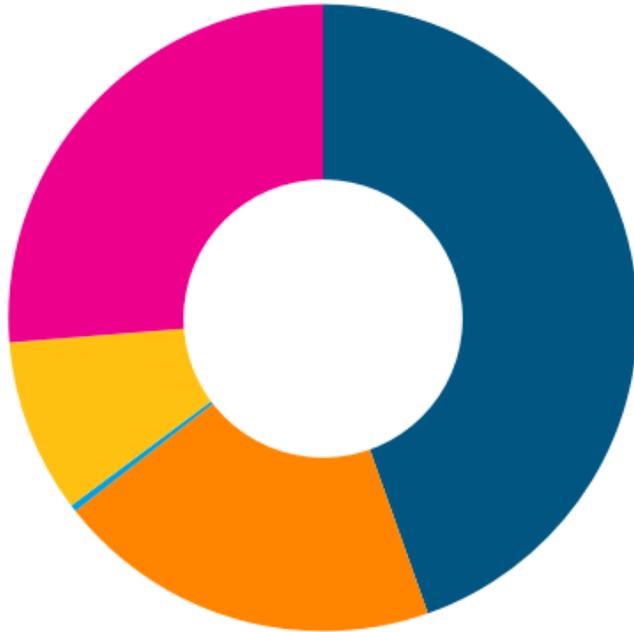
Baseline Load Growth Deliverability & Reliability	\$755
Congestion Relief - Economic	\$24
Generator Deactivation	\$10
Operational Performance	\$21
Short Circuit	\$28
TO Criteria Violation	\$2,392

**Estimated Cost of Baselines Projects  
Driven by TO Criteria Violations**



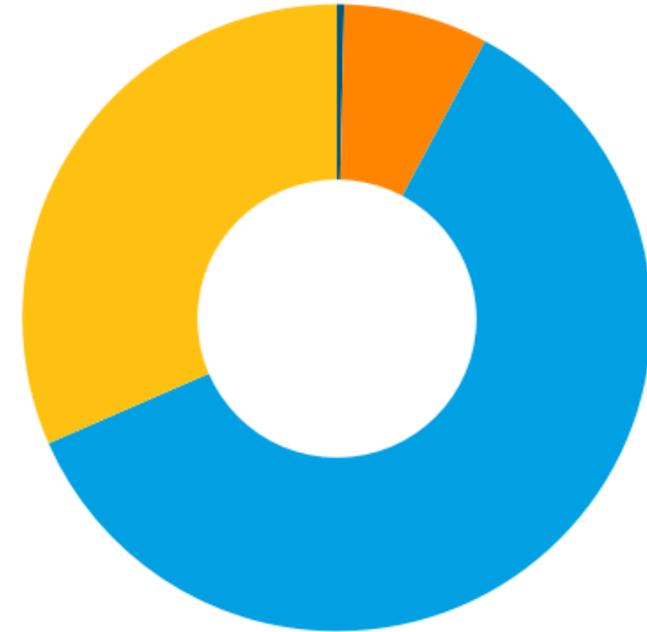
Aging Infrastructure	\$1,554
Other TO Criteria	\$838

**Estimated Cost of Supplemental Projects Presented by TOs to the TEAC**

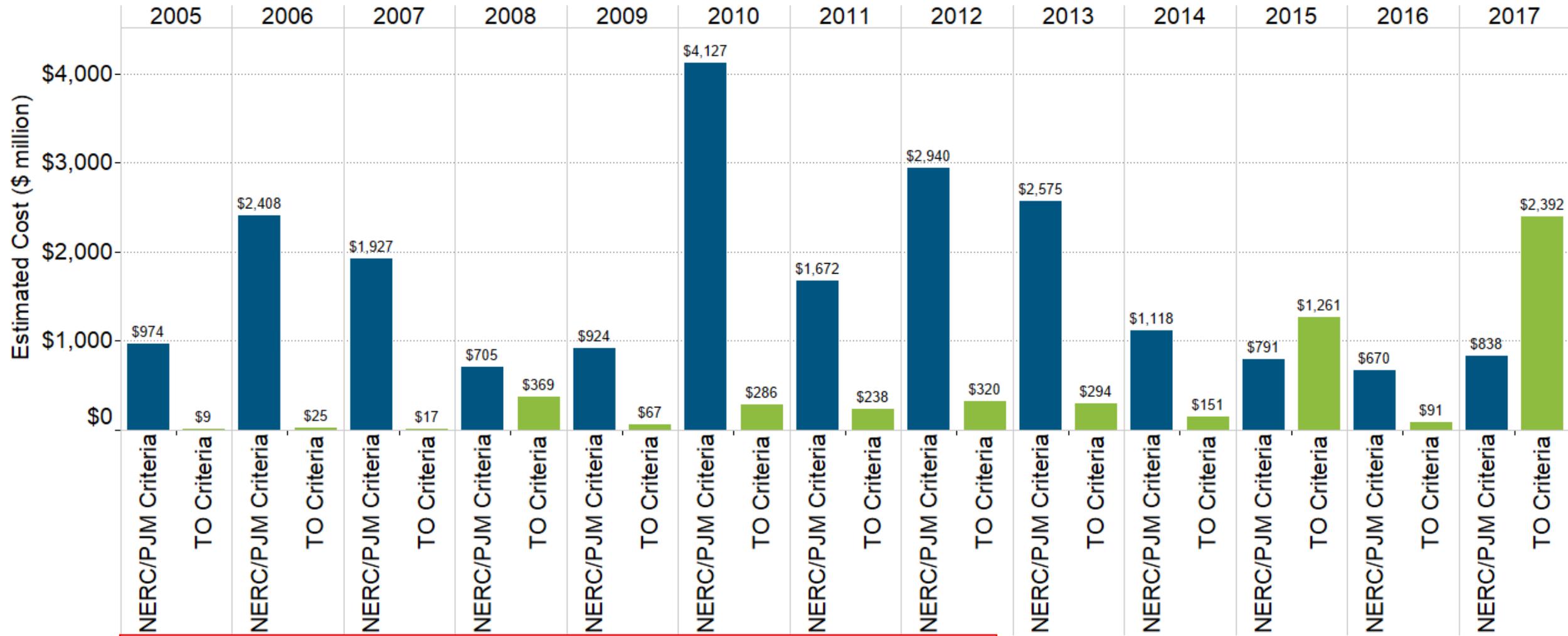


Equipment Material Condition, Performance and Risk	\$1,358
Operational Flexibility and Efficiency	\$603
Infrastructure Resilience	\$11
Customer Service	\$273
Other	\$0
Multiple Drivers	\$798

**Estimated Cost of Supplemental Projects with Multiple Drivers**



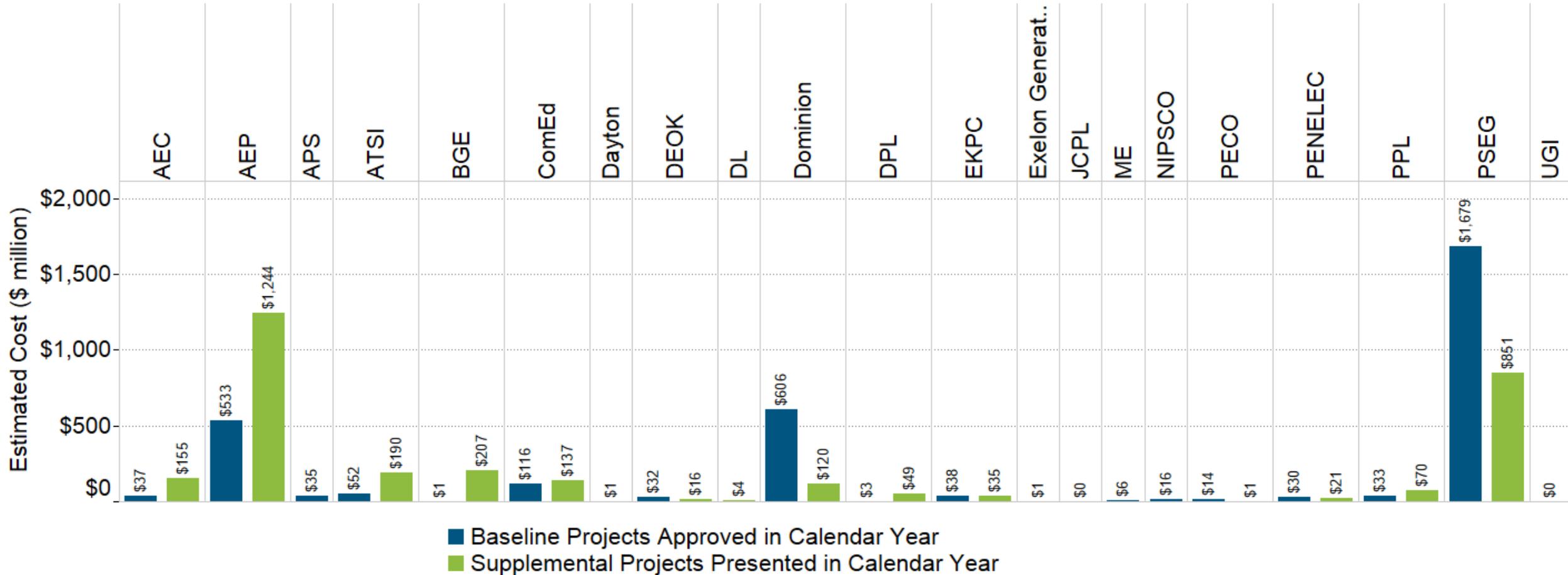
Equipment Material Condition, Performance and Risk / Customer Service	\$3
Equipment Material Condition, Performance and Risk / Infrastructure Resilience	\$59
Equipment Material Condition, Performance and Risk / Operational Flexibility and Efficiency	\$484
Operational Flexibility and Efficiency / Customer Service	\$252



Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

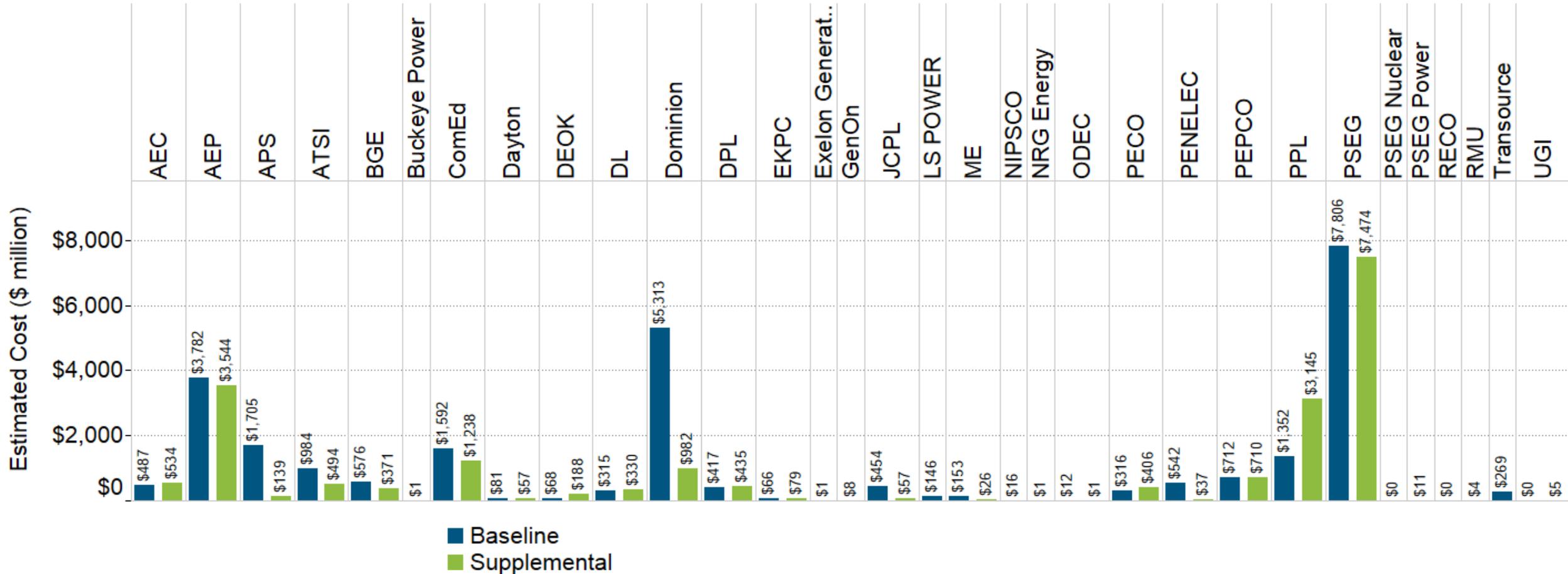


# Distribution of New Baseline and Supplemental Projects Approved by the PJM Board (baseline) or Presented (supplemental) in 2017



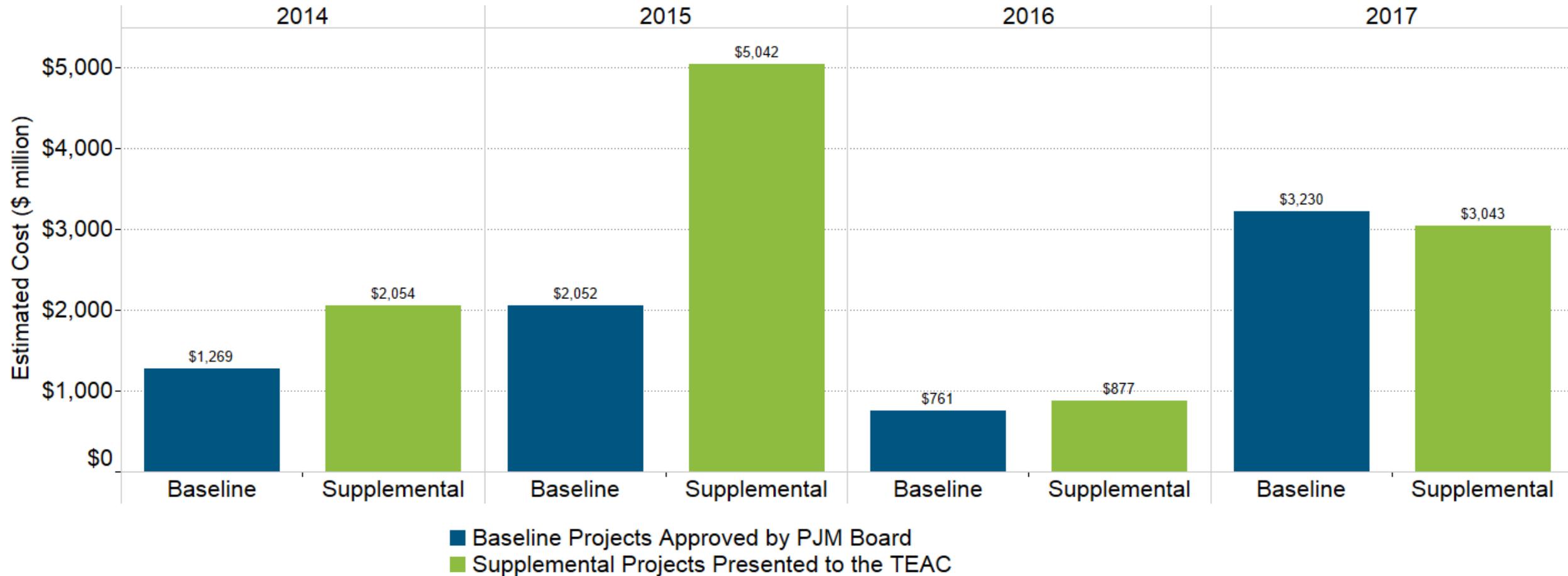


# Distribution of New Baseline and Supplemental Projects Approved by the PJM Board (baseline) or Presented (supplemental) since 2005



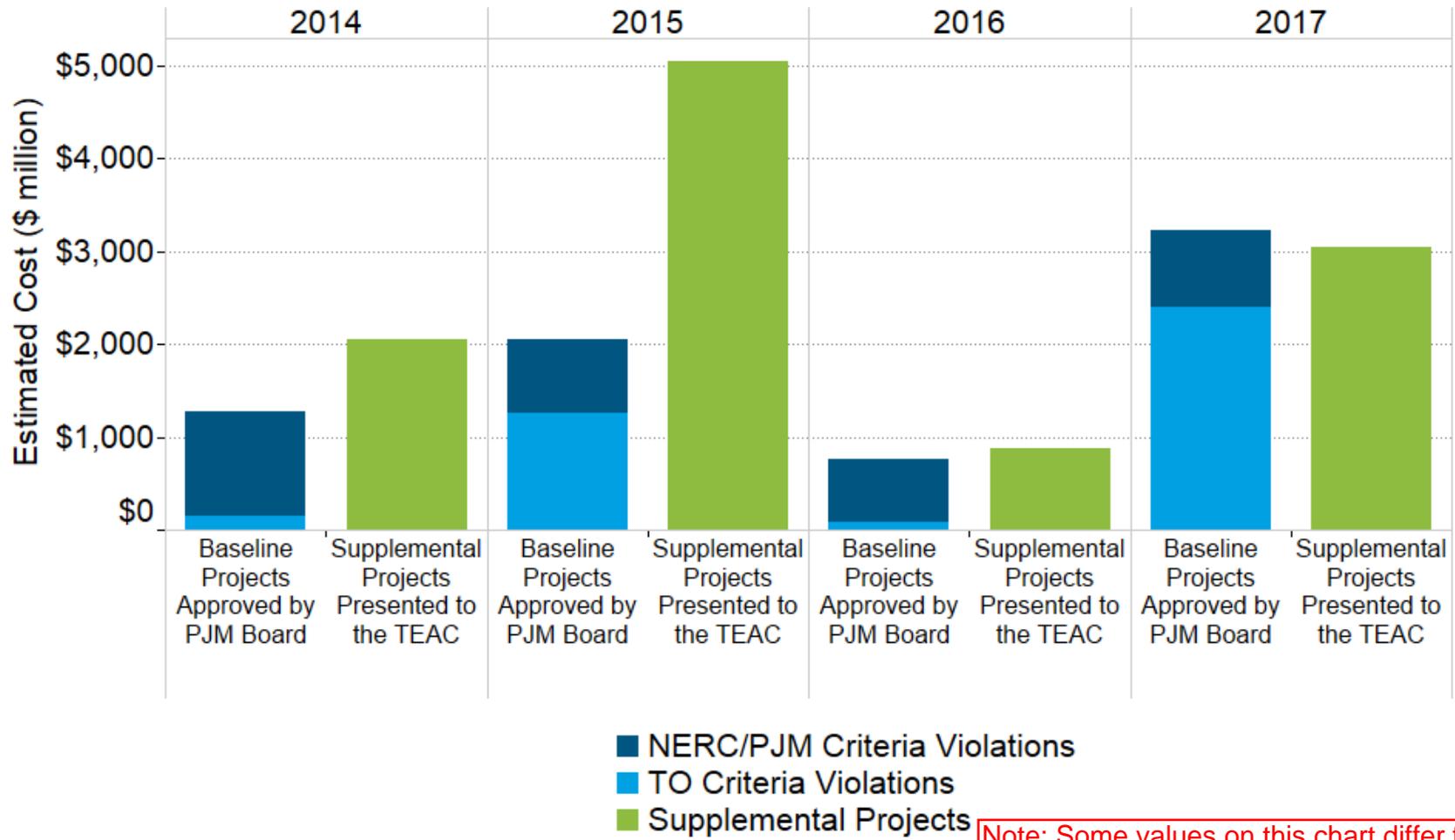
Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

# Baseline and Supplemental Projects by Year



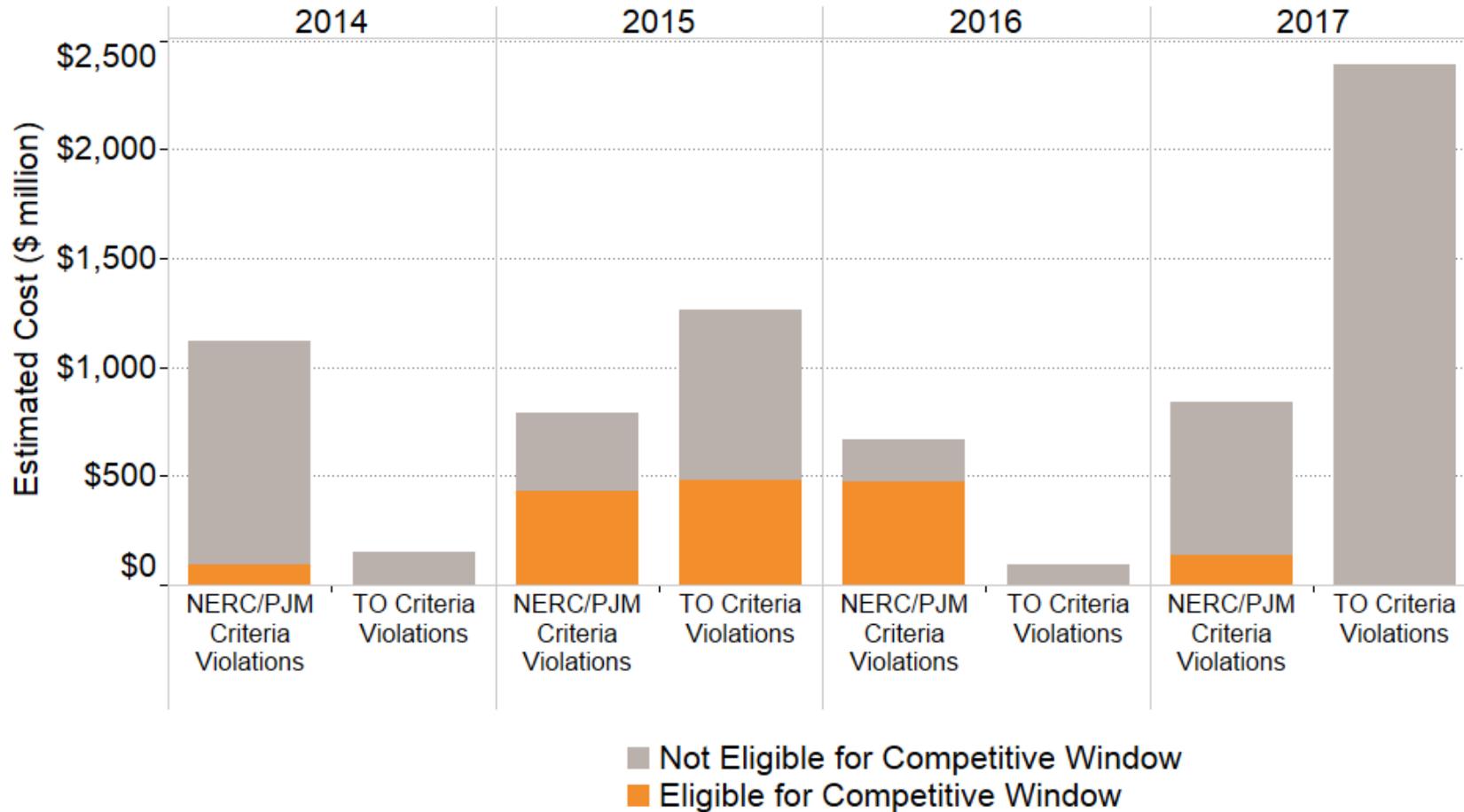
Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

# Baseline and Supplemental Projects by Year



	Baseline		Supplemental
	NERC/PJM Criteria Violations	TO Criteria Violations	Supplemental Projects
2014	\$1,118	\$151	\$2,054
2015	\$791	\$1,261	\$5,042
2016	\$670	\$91	\$877
2017	\$838	\$2,392	\$3,043

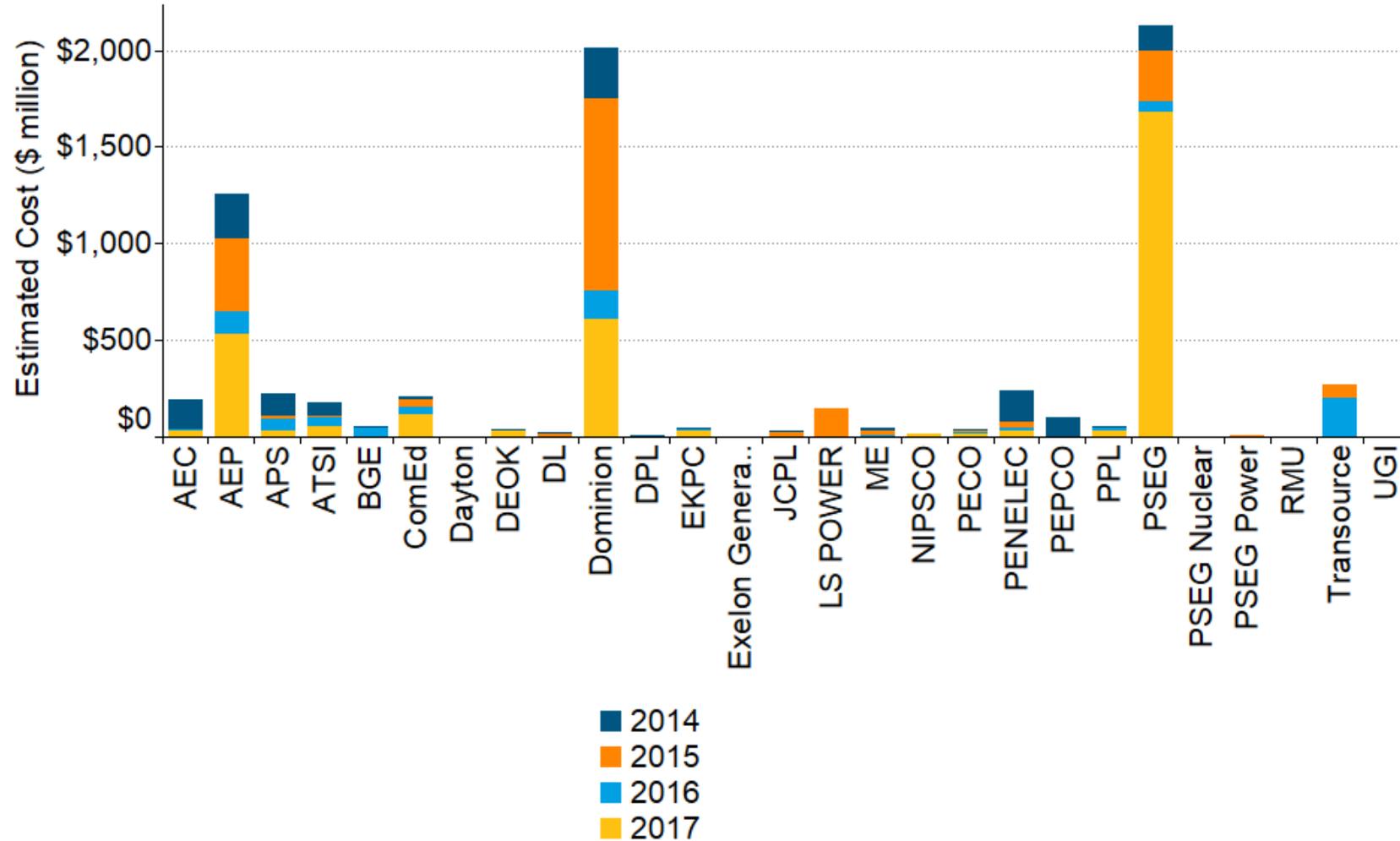
Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.



	Eligible for Competitive Window	Not Eligible for Competitive Window
2014	\$90	\$1,179
2015	\$912	\$1,140
2016	\$471	\$290
2017	\$136	\$3,094

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

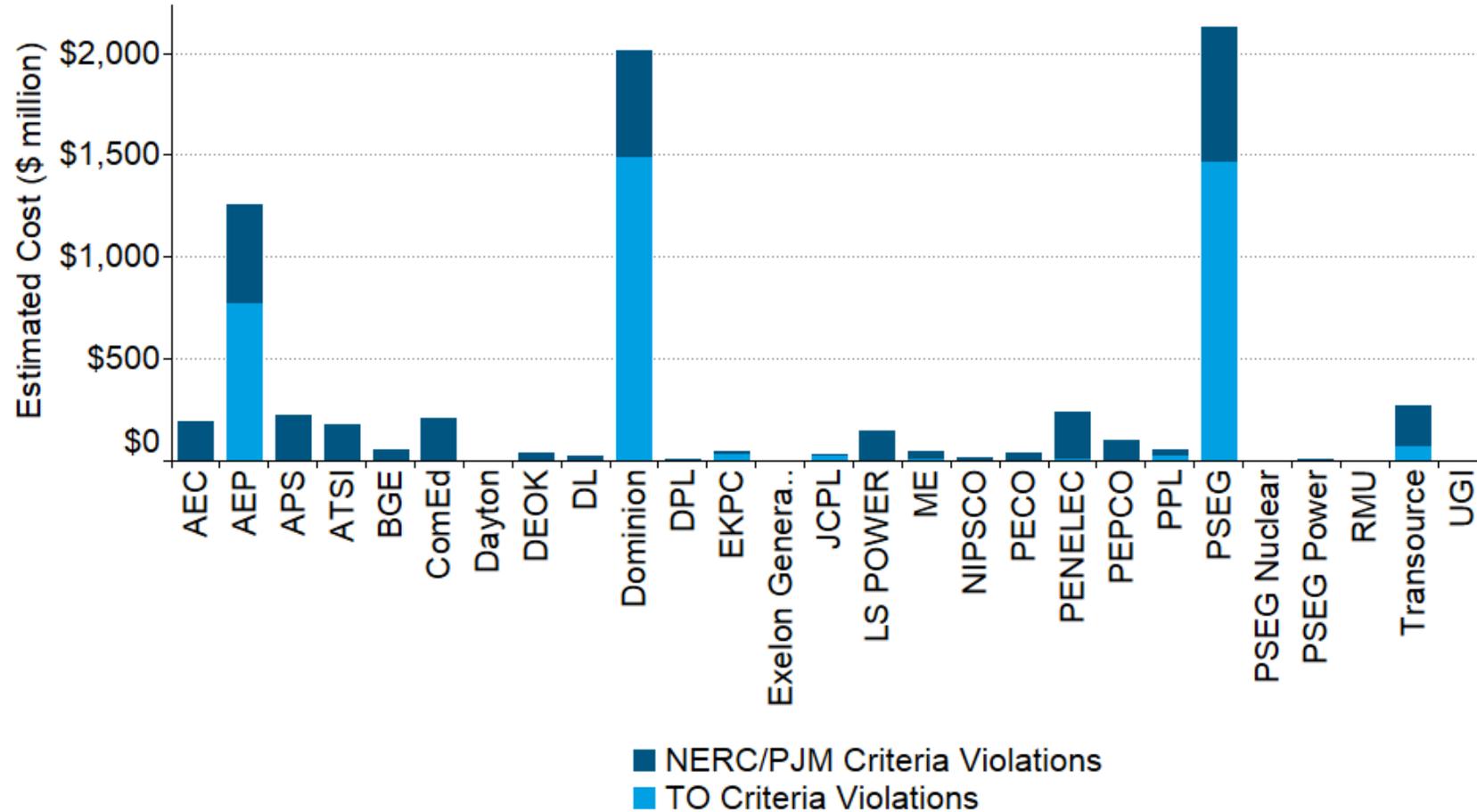
# Baseline Projects by Designated Entity Approved by PJM Board 2014-2017



	2014	2015	2016	2017
AEC	\$152		\$1	\$37
AEP	\$229	\$381	\$114	\$531
APS	\$114	\$15	\$60	\$35
ATSI	\$70	\$12	\$45	\$52
BGE	\$2		\$53	\$1
ComEd	\$14	\$40	\$39	\$116
Dayton	\$0			\$1
DEOK	\$2	\$7		\$30
DL	\$7	\$13		
Dominion	\$259	\$998	\$148	\$606
DPL	\$0	\$4		\$3
EKPC	\$0	\$5	\$1	\$38
Exelon Genera...				\$1
JCPL	\$6	\$23	\$1	\$0
LS POWER		\$146		
ME	\$14	\$21	\$3	\$6
NIPSCO				\$16
PECO	\$2	\$12	\$12	\$14
PENELEC	\$163	\$30	\$15	\$30
PEPCO	\$97			
PPL	\$3	\$5	\$14	\$33
PSEG	\$134	\$260	\$56	\$1,679
PSEG Nuclear		\$0		
PSEG Power		\$8		
RMU			\$4	
Transource		\$72	\$197	
UGI				\$0

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

# Baseline Projects by Designated Entity Approved by PJM Board 2014-2017

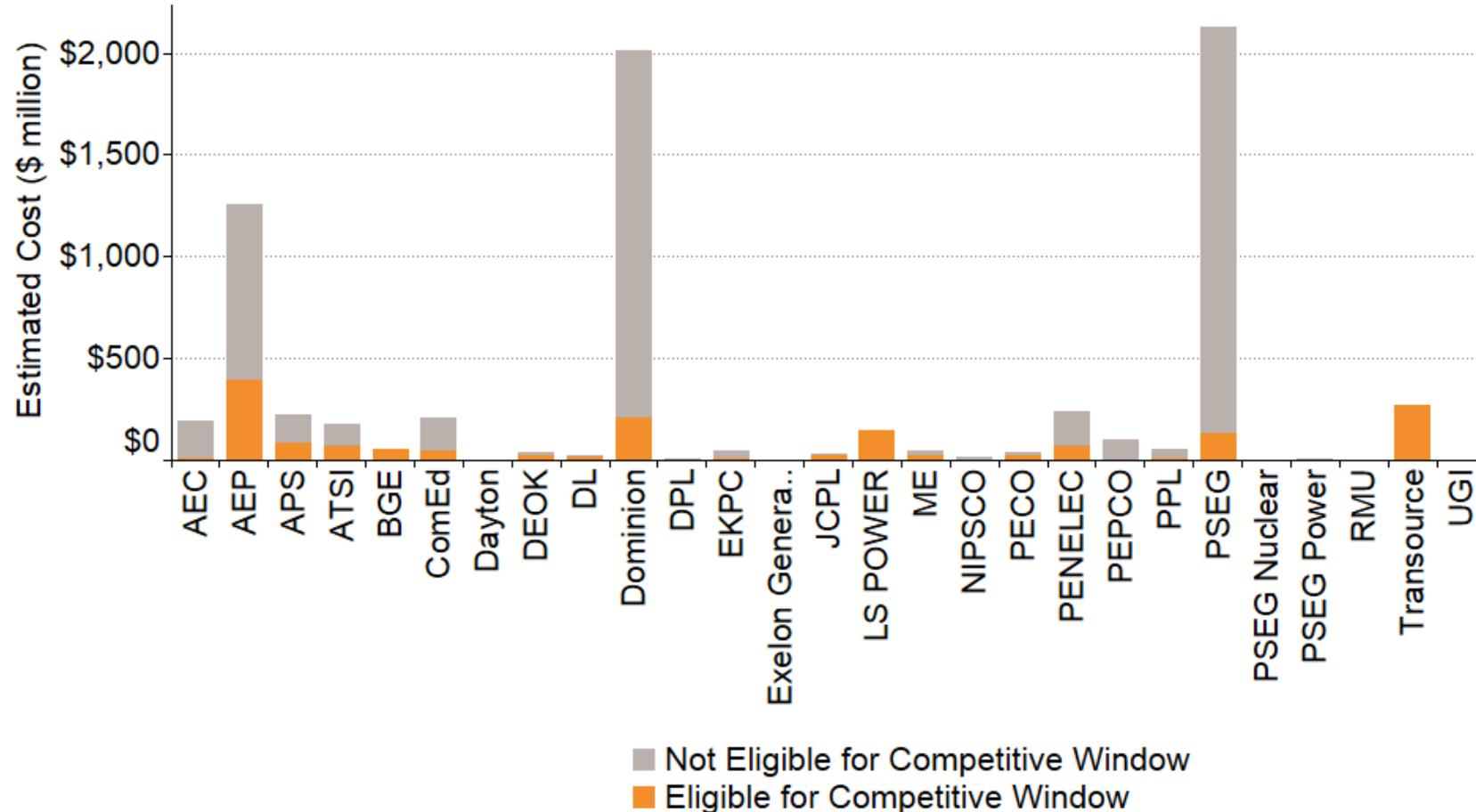


	NERC/PJM Criteria Violations	TO Criteria Violations
AEC	\$191	
AEP	\$481	\$774
APS	\$223	\$1
ATSI	\$179	
BGE	\$56	
ComEd	\$210	
Dayton	\$1	
DEOK	\$39	
DL	\$20	
Dominion	\$521	\$1,490
DPL	\$8	
EKPC	\$10	\$34
Exelon Generation	\$1	
JCPL	\$3	\$27
LS POWER	\$146	
ME	\$38	\$6
NIPSCO	\$16	
PECO	\$40	
PENELEC	\$229	\$9
PEPCO	\$97	
PPL	\$32	\$22
PSEG	\$668	\$1,462
PSEG Nuclear	\$0	
PSEG Power	\$8	
RMU	\$4	
Transource	\$197	\$72
UGI	\$0	

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.



# Baseline Projects by Designated Entity Approved by PJM Board 2014-2017

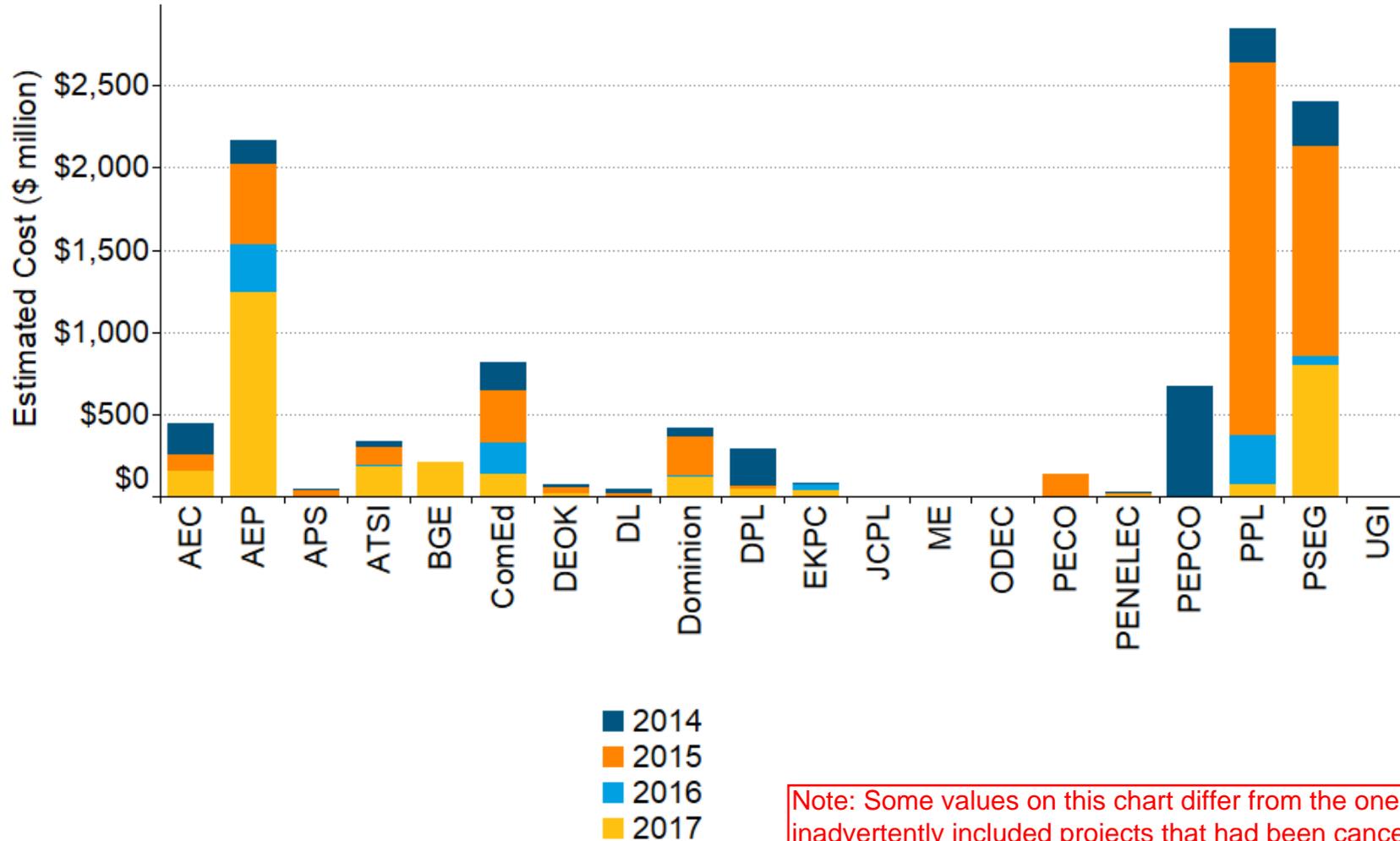


	Eligible for Competitive Window	Not Eligible for Competitive Window
AEC	\$8	\$184
AEP	\$393	\$862
APS	\$84	\$139
ATSI	\$72	\$107
BGE	\$56	
ComEd	\$48	\$162
Dayton		\$1
DEOK	\$26	\$14
DL	\$18	\$2
Dominion	\$205	\$1,806
DPL	\$4	\$3
EKPC	\$6	\$38
Exelon Generation		\$1
JCPL	\$23	\$6
LS POWER	\$146	
ME	\$23	\$20
NIPSCO		\$16
PECO	\$22	\$18
PENELEC	\$67	\$170
PEPCO		\$97
PPL	\$7	\$48
PSEG	\$132	\$1,997
PSEG Nuclear	\$0	
PSEG Power		\$8
RMU		\$4
Transource	\$269	
UGI		\$0

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

# Supplemental Projects by Transmission Owner

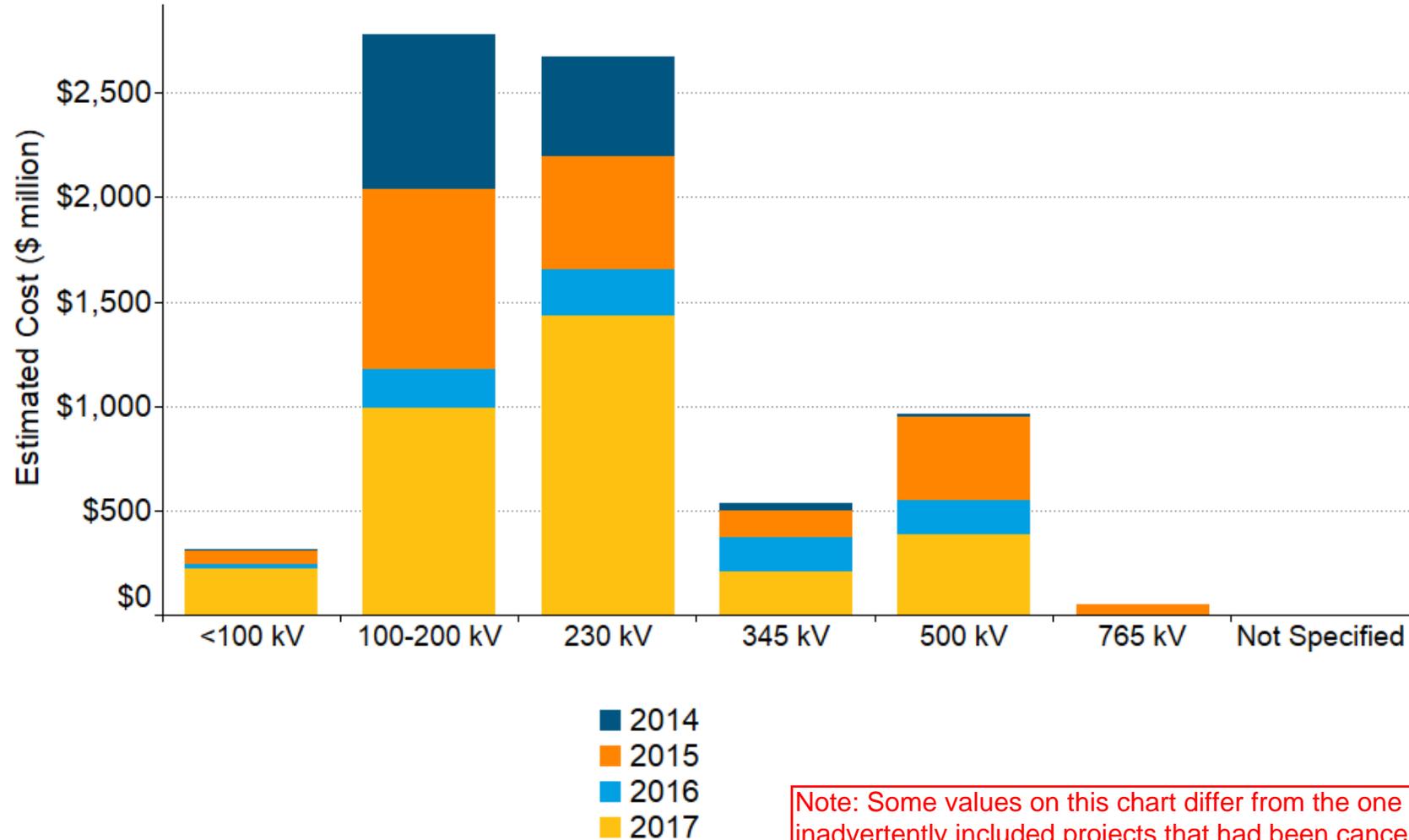
## Presented to the TEAC/Sub-regional TEAC Meetings in 2014-2017



	2014	2015	2016	2017
AEC	\$190	\$97		\$155
AEP	\$146	\$492	\$288	\$1,244
APS	\$9	\$40	\$1	
ATSI	\$43	\$102	\$2	\$190
BGE				\$207
ComEd	\$179	\$317	\$186	\$137
DEOK	\$20	\$37		\$16
DL	\$28	\$11		\$4
Dominion	\$60	\$235	\$6	\$120
DPL	\$220	\$17		\$49
EKPC	\$1	\$10	\$33	\$35
JCPL	\$0	\$0		
ME		\$4		
ODEC		\$1		
PECO		\$135		\$1
PENELEC	\$1	\$1	\$0	\$21
PEPCO	\$674			
PPL	\$212	\$2,262	\$306	\$70
PSEG	\$272	\$1,283	\$55	\$795
UGI				\$0

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

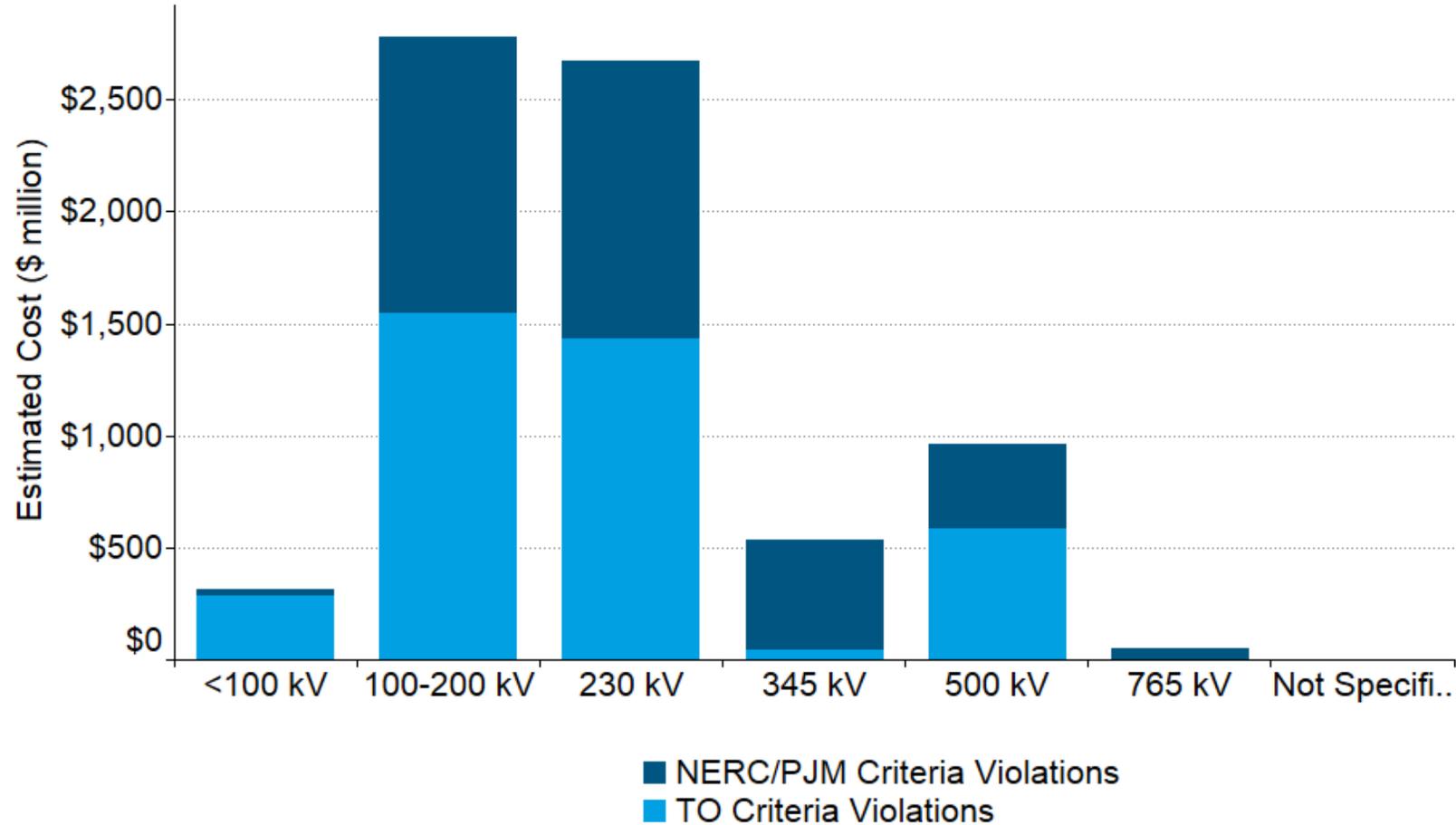
# Baseline Projects by Voltage Approved by PJM Board 2014-2017



	2014	2015	2016	2017
<100 kV	\$3	\$65	\$25	\$221
100-200 kV	\$746	\$860	\$186	\$991
230 kV	\$474	\$542	\$223	\$1,431
345 kV	\$32	\$135	\$161	\$206
500 kV	\$14	\$399	\$165	\$383
765 kV		\$52		
Not Specified	\$1	\$0		

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

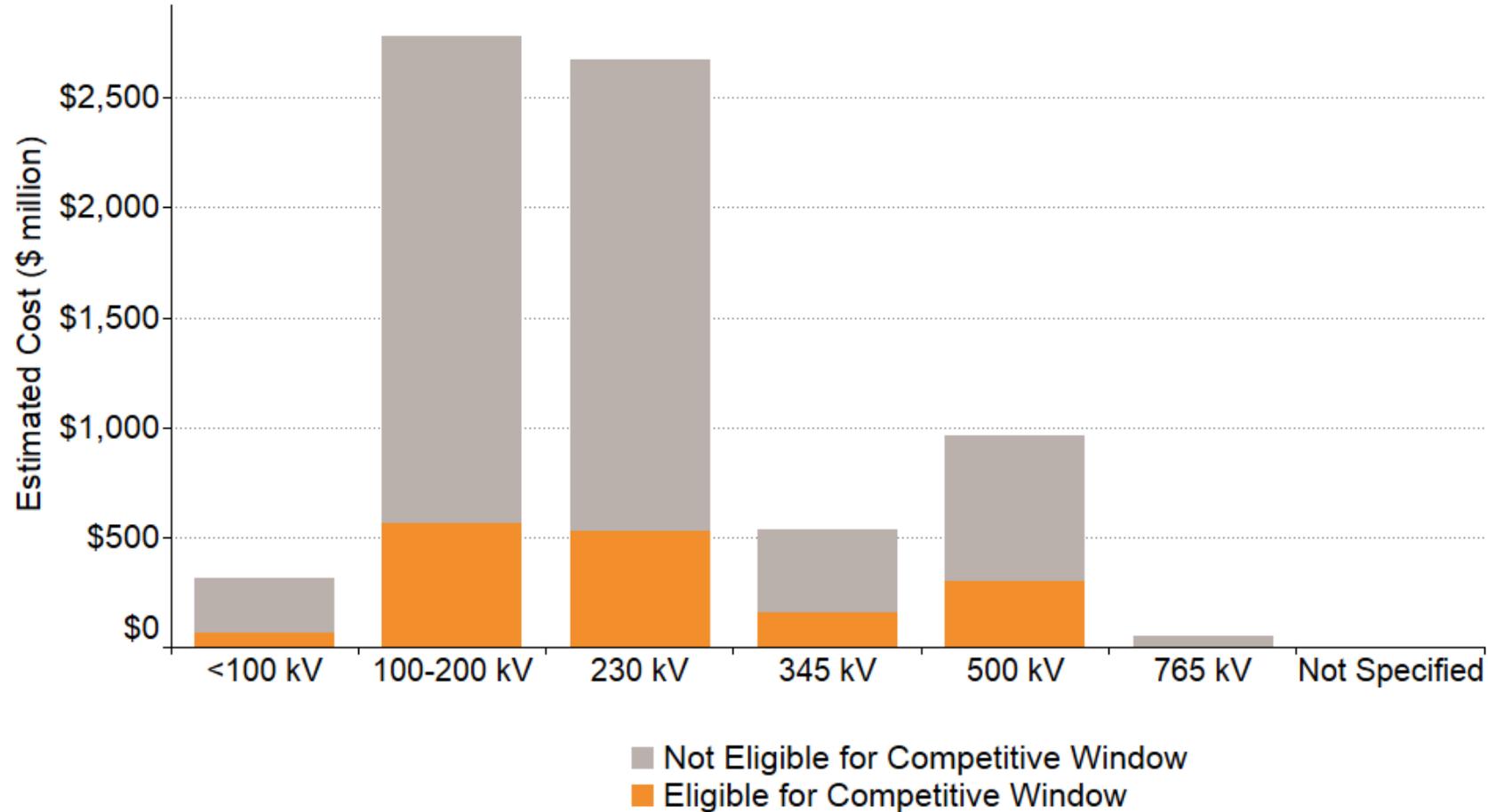
# Baseline Projects by Voltage Approved by PJM Board 2014-2017



	NERC/PJM Criteria Violations	TO Criteria Violations
<100 kV	\$28	\$286
100-200 kV	\$1,233	\$1,550
230 kV	\$1,237	\$1,433
345 kV	\$490	\$43
500 kV	\$377	\$583
765 kV	\$52	
Not Specified	\$1	

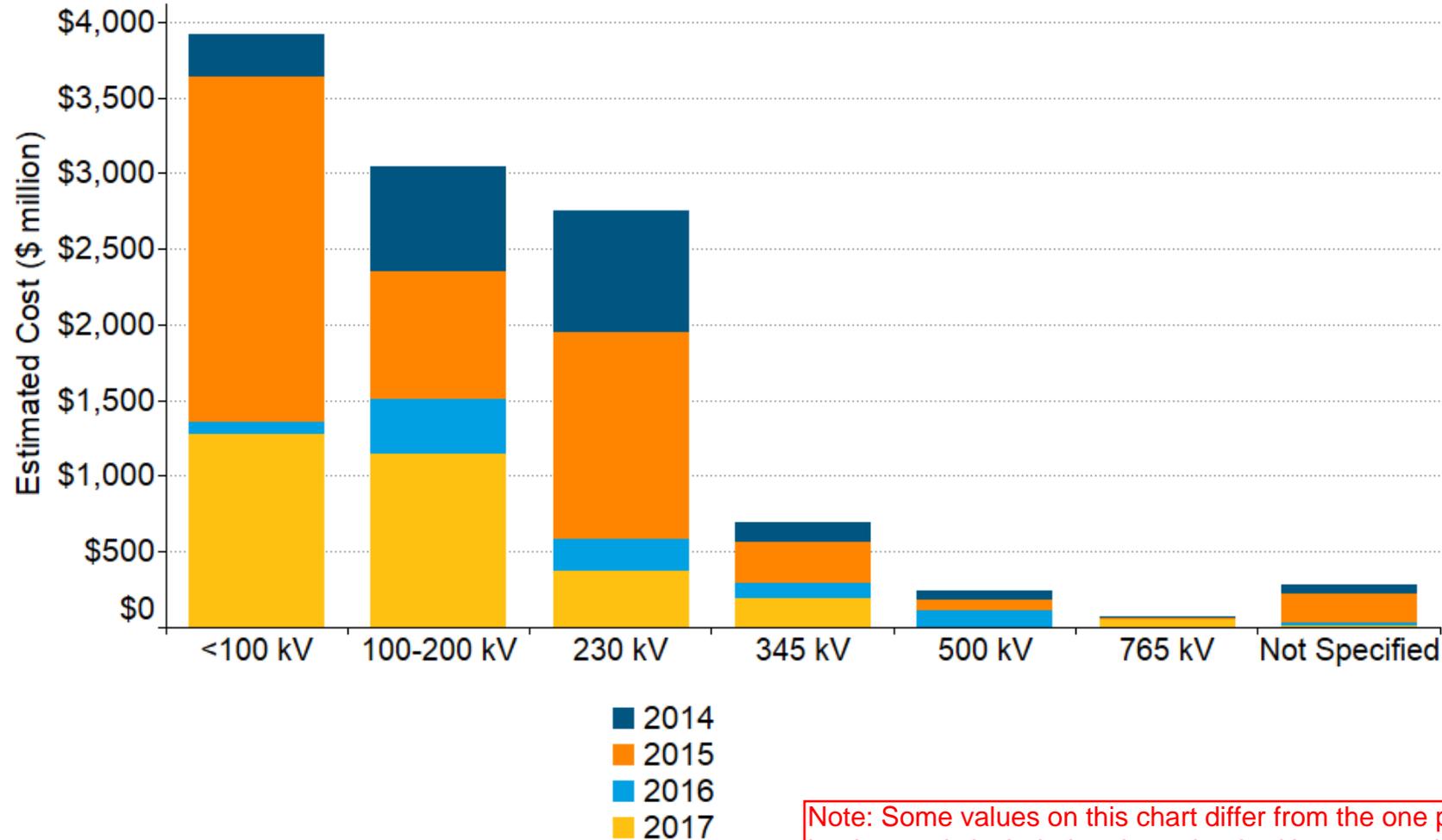
Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

# Baseline Projects by Voltage Approved by PJM Board 2014-2017



	Eligible for Competitive Window	Not Eligible for Competitive Window
<100 kV	\$63	\$251
100-200 kV	\$561	\$2,221
230 kV	\$530	\$2,140
345 kV	\$158	\$375
500 kV	\$297	\$664
765 kV	\$1	\$51
Not Specified	\$0	\$1

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.



	2014	2015	2016	2017
<100 kV	\$284	\$2,284	\$78	\$1,278
100-200 kV	\$693	\$845	\$365	\$1,142
230 kV	\$811	\$1,358	\$217	\$370
345 kV	\$129	\$277	\$97	\$189
500 kV	\$66	\$68	\$105	\$3
765 kV	\$7	\$19		\$50
Not Specified	\$65	\$192	\$14	\$12

Note: Some values on this chart differ from the one published on 1/11/2018. The original posting inadvertently included projects that had been canceled or had not yet been fully accepted.

- V2 – 2/13/2018 – Reposted with tabular values
- V1 – 1/9/2018 – Original Slides Posted