

Weighted Segment Voting Examples

Examples of Weighted Segment Voting Calculation for Balloting NERC's Reliability Standards

(Assumptions on numbers of entities are purely hypothetical and used only for illustrative purposes.)

Ballot Body and Pools

Segment	Registered Ballot Body	Ballot Pools	
		Standard #1	Standard #2
1. Transmission Owners	300	250	100
2. RTOs and ISOs	10	10	8
3. LSEs	200	100	50
4. TDUs	100	75	50
5. Electric Generators	25	20	25
6. Brokers, Aggregators, and Marketers	10	10	10
7. Large End-Use Customers	5	1	4
8. Small End-Use Customers	25	10	5
9. Regulators or Other Government Entities	50	10	15
10. RROs and REs	10	10	8
Totals	735	496	279

Example 1 — Weighted segment vote is greater than two thirds AND more than 75% of the ballot pool returned a ballot. Standard is approved.

Segment	Ballot Pool	Votes				Abstain	No Ballot
		Affirmative		Negative			
		# Votes	Fraction	# Votes	Fraction	# Votes	
1	250	200	0.833	40	0.167	10	0
2	10	8	0.800	2	0.200	0	0
3	100	60	0.632	35	0.368	5	0
4	75	50	0.714	20	0.286	0	5
5	20	7	0.412	10	0.588	2	1
6	10	6	0.600	4	0.400	0	0
7	1	0		0		1	0
8	10	0		0		0	10
9	10	8	0.800	2	0.200	0	0
10	10	7	0.700	3	0.300	0	0
Totals	496	346	5.491	116	2.509	18	16
Ballots	480	96.8%					
Wtd Vote			0.686		0.314		

No "Affirmative" or "Negative" votes cast, so Segments 7 and 8 not counted in total weighting.

Percent ballots returned:

$$= (480/496) \times 100$$

$$= 96.8\%$$

Weighted segment vote

$$= (\text{Total Fraction}) / (\text{Segments Counted})$$

$$= 5.491 / 8$$

$$= .677$$

Example 2 — Weighted segment vote is greater than two thirds BUT less than 75% of the ballot pool returned a ballot. Standard is NOT approved due to lack of a quorum.

Segment	Ballot Pool	Votes				Abstain	No Ballot
		Affirmative		Negative			
		# Votes	Fraction	# Votes	Fraction	# Votes	
1	100	25	1.000	0	0.000	0	75
2	8	6	.8*0.750	2	.8*0.250	0	0
3	50	30	0.600	20	0.400	0	0
4	50	25	0.833	5	0.167	0	20
5	25	18	0.783	5	0.217	2	0
6	10	6	0.600	4	0.400	0	0
7	4	4	.4*1.000	0	.4*0.000	0	0
8	5	5	.5*1.000	0	.5*0.000	0	0
9	15	7	.7*1.000	0	.7*0.000	5	3
10	8	8	.8*1.000	0	.8*0.000	0	0
Total	275	134	6.816	36	1.384	7	98
Ballots	177	64.36%					
Wtd Vote			0.831		0.169		

Segments with less than 10 votes (affirmative or negative) are discounted such that each vote counts 0.1 of the segment weight.

6.816/8.2 = .802 or 82.2 % approval

Denominator is reduced because:

- Segment 2 counts .8
- Segment 7 counts 0.4
- Segment 8 counts 0.5
- Segment 9 counts 0.7
- Segment 10 counts .8

Version History

Version	Date	Owner	Change Tracking
1	November 4, 2009		
1	March 29, 2024	Standards Information Staff	Updated template