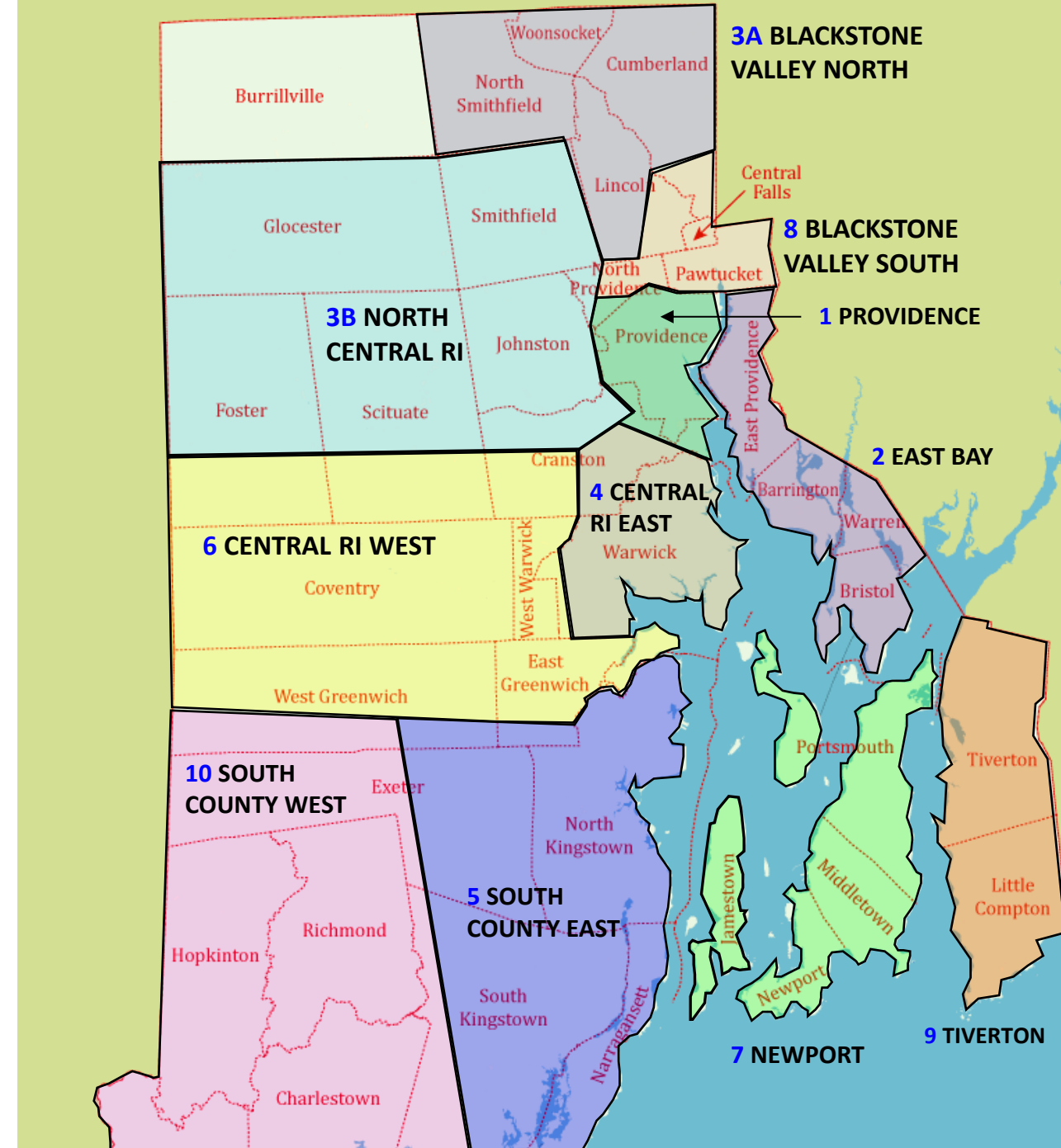


Recommendation 4

System Capacity Load Study 10-Year Long Range Plan



Rank	Study Area	Load (MVA)	% State Load	# Feeders	# Stations	Study Status
1	Providence	364	19%	95	17	100%
2	East Bay	157	8%	23	7	100%
3A	Blackstone Valley North	145	7%	20	5	50%
3B	North Central Rhode Island	254	13%	35	10	50%
4	Central Rhode Island East	197	10%	38	10	100%
5	South County East	184	10%	21	9	85%
6	Central Rhode Island West	178	9%	30	11	
7	Newport	136	7%	54	14	
8	Blackstone Valley South	198	10%	60	13	
9	Tiverton	30	2%	4	1	
10	South County West	97	5%	12	6	
TOTALS*		1940	100%	392	103	56%

* Study Status Total = % State Load weighted total

1 PROVIDENCE

Concerns:

- Asset condition concerns.
- Capacity to supply load growth in an urban environment.

Resolutions:

- Long Term Study complete.
- Study completed May 2017.

2 EAST BAY

Concerns:

- Normal and contingency capacity issues.
- Asset condition concerns.

Resolutions:

- Study completed August 2015.

3A BLACKSTONE VALLEY NORTH (Northwest RI)

Concerns:

- Normal and contingency capacity issues.
- Municipal Electric Stakeholder.

Resolutions:

- On-going study to resolve issues.

3B NORTH CENTRAL RI (Northwest RI)

Concerns:

- Normal and contingency capacity issues.
- Asset condition concerns.

Resolutions:

- On-going study to resolve issues.

4 CENTRAL RI EAST

Concerns:

- Normal and contingency capacity issues.
- Long term capacity plan needed to supply eastern Warwick.
- Flood risk at Sockanosett (pending solution in Providence study).
- Contingency issues at Kilvert St. (resolved).

Resolutions:

- Completed Kilvert St substation project has addressed contingency issues.
- Study completed February 2017.

5 SOUTH COUNTY EAST

Concerns:

- Potential feeder MWh violations.
- Potential MWh violations at Tower Hill.

Resolutions:

- On-going study to develop comprehensive plans.

6 CENTRAL RI WEST

Concerns:

- Normal and contingency capacity issues.
- Asset condition concerns at Arctic. (solution in progress)
- Contingency issues at Kent County. (resolved)
- Asset, flood risk, & environmental concerns at Hunt River. (resolved)

Resolutions:

- On-going New London Ave substation project will address asset condition concerns at Arctic.
- Completed Kent County substation project has addressed contingency issues and Hunt River issues.

7 NEWPORT

Concerns:

- Normal and contingency capacity issues. (solution in progress)
- Asset condition concerns at Vernon & Bailey Brook. (solution in progress)
- Subtransmission capacity concerns. (solution in progress)

Resolutions:

- On-going Aquidneck Island projects will address all issues.

8 BLACKSTONE VALLEY SOUTH

Concerns:

- Asset condition concerns at Pawtucket No 1 Indoor substation. (pending solution)
- Asset condition concerns at Pawtucket No 2 Indoor substation.
- Normal and contingency capacity issues at Pawtucket No 1. (pending solution)

Resolutions:

- On-going Southeast substation project will address all asset and capacity issues at Pawtucket No 1.

9 TIVERTON

Concerns:

- Normal and contingency capacity issues. (deferment in progress)

Resolutions:

- Ongoing Non-Wires Alternative pilot may defer infrastructure solution.

10 SOUTH COUNTY WEST

Concerns:

- Normal and contingency capacity issues. (solution in progress)
- Flood risk concerns at Westerly.

Resolutions:

- On-going Chase Hill substation project will address capacity issues.
- On-going Westerly substation project will address flood risk concerns.