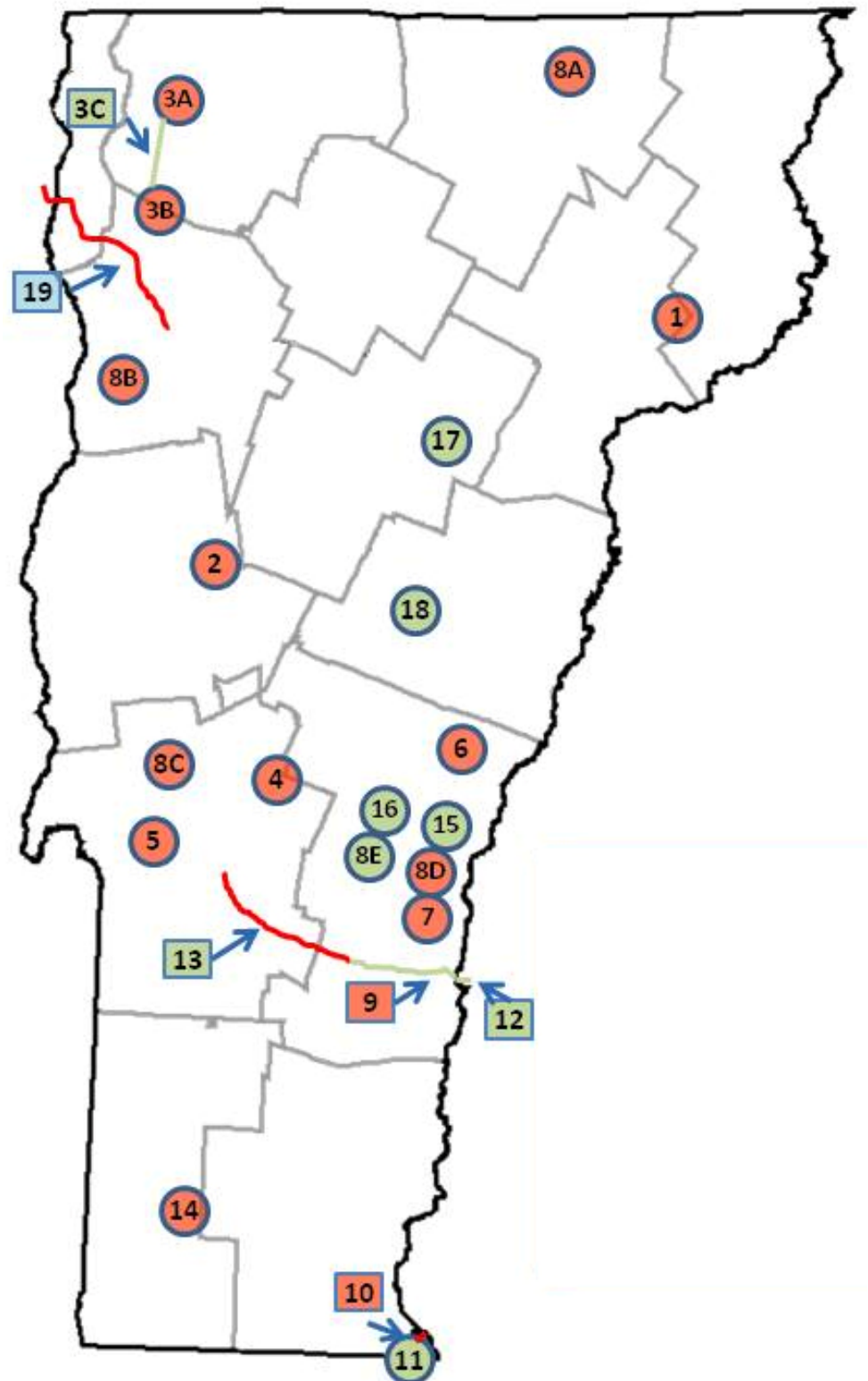


Transmission Solutions to Reliability Issues Identified in 2009 VT Long-Range Transmission Plan – Public Review Draft

Project number	Name	Project Type	Project
1	St. Johnsbury	Substation	Construct new ring substation at or near Lyndonville substation, install capacitor banks
2	Middlebury	Substation	Install 2nd 115/46 kV transformer, rebuild to ring station
3A	St Albans	Substation	Construct new ring station with two 115/34.5 kV transformers
3B	Georgia	Substation	Rebuild to ring station
3C	Georgia-St. Albans	Transmission	Construct new Georgia to St Albans 115 kV transmission line, under 10 miles. Needed before 2018.
4	S Rutland	Substation	Construct new substation with a 115/46 kV transformer
5	Blissville	Substation	Install 2nd 115/46 kV transformer, rebuild to ring station, install capacitor banks
6	Hartford	Substation	Install 2nd 115/46 kV transformer, rebuild to ring station
7	Ascutney	Substation	Rebuild to breaker-and-a-half station
8A	Newport	Substation	Install capacitor banks
8B	Queen City	Substation	Install capacitor bank
8C	W Rutland	Substation	Install capacitor banks and shunt reactors
8D	Ascutney	Substation	Add capacitor banks
8E	Coolidge Reactor	Substation	Install shunt reactor
9	Coolidge-Ascutney	Transmission	Rebuild transmission line to higher rating, under 15 miles
10	Yankee to Vernon Rd	Transmission	Rebuild line for higher rating, under 10 miles
11	Vernon	Substation	Install 2nd 345/115 kV transformer
12	Ascutney-Ascutney Tap	Transmission	Rebuild transmission line to higher rating, under 10 miles
13	Coolidge-Cold River	Transmission	Rebuild transmission line to higher rating, under 20 miles
14	Bennington	Substation	Rebuild to ring substation, install capacitor banks
15	Ascutney Transformer	Substation	Install 2nd 115/46kV transformer
16	Coolidge Transformer	Substation	Install 2nd 345/115 kV transformer
17	Barre	Substation	Install 2nd 115/34.5 kV transformer and rebuild to ring station. 2018 assumes there will be an upgrade to the 34.5 kV system
18	Chelsea	Substation	Install 2nd 115/46 kV transformer, rebuild to ring station
19	Plattsburgh-Essex	Transmission	Construct new Plattsburgh to Essex 230 kV transmission line, parallel with existing 115 kV lines, under 30 miles, NOTE: timing may be 2016 or earlier depending on other possible scenarios



Legend

- X 2009 substation project
- X 2010-2020 substation project
- X 2009 transmission project
- XX 2010-2020 transmission project
- XX After 2020 transmission project