

Upgrades providing the best value in terms of improving our import capability and renewable generation hosting capacity	Notes	Incremental \$M estimate	Cumulative \$M estimate
Marshfield to Comerford 34.5 kV line	Marshfield to West Danville GMP is the fuse	3.6	3.6
Brandon to North Rutland 46 kV line	East Pittsford to Pittsford Village is the fuse	14.6	18.2
Two 50 MVar synchronous condensers at Highgate	resolves the stability/short circuit strength issues with redundancy	50	68.2
Second Essex to Williston line	approach to be determined, but could be a line from Limekiln to Williston around Burlington	80	148.2
Second Highgate to Georgia line	details to be determined, but I anticipate moving the Highgate converter into the Highgate ring, and this could eliminate the need for the synchronous condensers	70	218.2
New line from Georgia to Sand Bar to Essex	once we upgrade the Highgate-Georgia path, the Georgia to Essex path needs to be upgraded to fully realize the system benefits. May also need to raise the rating of the PV20 line, including a new Sand Bar ring	140	358.52
The 46 kV lines from Ascutney to Windsor to Bethel	could include reconfiguration, new line, voltage conversion	14	372.52
The above transmission and subtransmission upgrades get us most of the way. Other upgrades that would improve system reliability are:	Notes		
Sand Bar phase shifter	Improves reliability and avoids failure related generation costs	15	387.52
Coolidge transformer	Improves reliability	15	402.52
K32 upgrade	Improves reliability at higher load levels	72.76	475.28
K43 upgrade	Improves generation hosting capacity	30.16	505.44
K30 rating increase	Improves import capability	112.12	617.56

PV20 Vermont rating increase	Improves import capability	37.36	654.92
Mountainview Tap to Berlin 34.5 kV	Improves import capability	1.772	656.692
Georgia to Wyeth Tap to Ballard Rd 34.5 kV	Improves reliability at higher load levels	1	657.692
Then there are projects that improve system operability	Notes		
Various reconfiguration of stations from straight bus to rings	Improves operation flexibility		
Websterville to South Barre 34.5 kV	Improves local reliability		
West Rutland to Hydeville 46 kV	Improves local reliability		
Newfane to Georgia Pacific 46 kV	Improves reliability at higher load levels		