

Schultz-Wautoma 500kV Series Caps

The South of Allston (SOA) path is congested and expected to become more congested in the future. The decision to cancel the SOA Transmission project called for consideration of “scalable, flexible non-wire alternatives” for addressing SOA congestion. BPA conducted a 2018 SOA Non-Wires Alternative (NWA) Study to examine which NWA could provide the most effective and efficient SOA capacity. Power Flow controls in the form of series capacitors were determined to be the preferred alternative; specifically a series capacitor on the Schultz-Wautoma 500 kV line. The series capacitor provides SOA capacity by re-directing flows from the I-5 transmission corridor to transmission paths east of the Cascades. This project will add a 1,152 MVAR, 24-ohm series capacitor (rated 4000A at 500 kV) on the Shultz-Wautoma line at Wautoma substation.