

Big Eddy 500/230 Transformer Bank #5 Replacement Project

The Big Eddy 500/230 Transformer Bank #5 Replacement Project involves replacing the existing 500/230 kV Bank No. 5 at Big Eddy with three new single phase units (1300 MVA total) with the same impedance as Big Eddy Bank No.2.

This investment provides an additional 105 MVA total capacity and will free up the two remaining transformers to be used as spares. This project also solves an existing mismatched impedance problem between Banks No. 2 and No.5 at Big Eddy which will balance the loading between the two banks and avoid the reduction of total transfer capacity of West of McNary and West of Slatt path. Transmission describes this as an emergency replacement of a failed transformer and the replacement of two remaining units that are at the end of their life expectancy. The Big Eddy 500/230 kV transformer Bank No.5 is a critical asset to maintain reliable operations on the transmission system to serve the Pacific Direct Current Intertie (PDCI), the Portland metro area and Central Oregon load area.

The Big Eddy 500/230 TX Bank #5 replacement energization date is planned for 6/15/2009 and total capital project cost, including overheads and AFUDC is estimated to be \$17.7 million.