

Customer Line- Load Expand Projects FY 2010-13

- **FY 2010 Projects:**
 - Silverado Substation (Clallam PUD) - \$625k line tap and auto-sectionalizing
 - Gardiner Substation, new 115 kV bay (Central Lincoln PUD) - \$836k

- **FY 2011 Projects:**
 - Acord Substation (Benton REA) - \$338k line tap
 - Mt Adams Substation (Yakima Power) - \$250k line tap
 - Flathead Substation new 230 kV Bay (Flathead Electric) - \$1.575M, including bus tie
 - Olympia Substation new 115 kV Bay (Puget Sound Energy) - \$2M (prelim estimate)

- **FY 2012 Projects:**
 - Cathlamet Substation transformer addition (Wahkiakum PUD) - \$287k

- **FY 2013 Projects:**
 - St Clair Substation, add 230 kV yard for loop-in of Olympia-S. Tacoma line (PSE) – not yet estimated
 - Alderton Substation, add 230 kV yard for loop-in of S. Tacoma-White River line (PSE) – not yet estimated
 - Juan de fuca HVDC, connect to 230 kV at Port Angeles substation - \$30M
 - Big Sky Green Power, new 500 kV Substation at Townsend Montana – not yet estimated



Generation Expand Projects FY 2010-11

■ FY 2010 Projects under construction:

- Linden Ranch (50 MW) - 6/2010 (\$1.5M collector addition)
 - Leaning Juniper 2 part 1 (90 MW) GI-226, 9/1/2010 (\$3M 230 kV terminal addition)
 - Big Horn III (50 MW) GI 224, 9/1/2010 (\$150K meter/telemeter addition)
 - Roosevelt Landfill BioGas (22 MW) GI 407, 7/1/2010 (\$150K meter/telemeter addition)
 - Coastal Energy Wind (6 MW) GI 407, 7/1/2010 (\$50K meter/telemeter addition)
- Total for FY2010 – 888 MW, 218 MW remaining. (\$4.85M remaining with overheads)

■ FY 2011 Projects (* design / construction in progress):

- *Golden Hills (200 MW) GI 99, 10/1/2010 (\$4M 230 kV station expansion, collector addition)
 - *Leaning Juniper 2 part 2 (110 MW) GI-226, 12/1/2010 (\$50K meter/telemeter addition)
 - Oregon Trail Wind (20 MW) I0003, 12/1/2010 (\$100K meter/telemeter addition)
 - *Kittitas Valley (108 MW) GI 80, 12/1/2010 (\$10.5M new 230 kV ring bus substation, collector addition)
 - *Juniper Canyon 1 (150 MW) GI 203,4 12/1/2010 (\$2.5M 230 kV terminal and collector addition)
 - Seneca Saw Mill Biomass (20 MW) GI 349, 3/1/2011 (\$100K meter/telemeter addition)
 - Hampton Wind Project (8 MW) GI 331, 3/2011 (\$100K meter/telemeter addition)
 - Sage 1-2, Lost Forest Solar (12 MW) GI 376,77,79, 8/2011 (\$50K meter/telemeter addition)
 - Heppner Biomass (10 MW) GI 399, 8/2011 (\$100K meter/telemeter addition)
 - Energetics Solar (10) GI 387, 8/2011 (\$100K meter/telemeter addition)
 - *Miller Ranch (122 MW) GI 233, 8/1/2011 (\$1.8M collector addition)
 - *Eight Mile Canyon (78 MW) GI 255, 8/1/2011 (\$1.5M collector addition)
 - *Shepherds Flat Phase 1 (250 MW) GI 118, 8/1/2011 (\$32M, 500/230 kV Slatt and collector addition)
- Total for FY2011 – 1086 MW (\$52.9M with overheads)



Generation Expand Projects FY 2012-13

■ FY 2012 Projects (* design / construction in progress):

- *Lower Snake Wind Phase 1 (PSE – 250 MW of 1250 MW) GI 284-6, 2/1/2012 (\$102M with overheads)
- North Vly & Fossil Lake Solar (10 MW) GI 409,10, 12/1/2011 (\$50K meter/telemeter addition)
- Coyote Crest Wind (100 MW) GI-313, 8/1/2012 (\$1.5M 115kV terminal addition/collector addition)
- West Butte Wind (104 MW) GI 300, 8/2012 (\$5.5M 115 kV substation addition / collector addition)
- Christmas Vly Solar – (10 MW) GI 385, 3/1/2012 (\$50K meter/telemeter addition)
- Badger Peak Wind (20 MW) GI 388, 9/1/2012 (\$50K meter/telemeter addition)
- Scoggins Ridge Wind (20 MW) GI 386, 9/1/2012 (\$50K meter/telemeter addition)
- Fort Rock Solar (20 MW) GI 400, 9/1/2012 (\$50K meter/telemeter addition)
- Windy Flats 2 (100 MW) GI 222, 8/1/2012 (\$150K meter/telemeter addition)
- Juniper Canyon 2 (100 MW) GI 242, 8/1/2012 (\$10.5M new 230 kV ring bus substation, collector addition)
- Lund, etal (60 MW) GI 318,9,10, 8/1/2012 (\$50K meter/telemeter addition)
- Shepherds Flat Phase 2 (250 MW) GI 118, 8/1/2012 (\$1.8M collector addition)

Total for FY2012 – 1014 MW (\$121.9M with overheads)

■ FY 2013 Projects:

- Montague Wind 1 (200 MW) GI 238, 12/1/2012 (\$2.5M 230 kV terminal and collector addition)
- Lower Snake Wind Phase 1 part 2 (100 MW) GI 284-6, 12/1/2012 (\$1.5M collector addition)
- GI 345 (100 MW) GI 345, 12/1/2012 (\$10.5M new 230 kV ring bus substation, collector addition)
- Radar Ridge Wind (100 MW) GI-288, 8/1/2013 (\$1.5M 115kV terminal addition/collector addition)
- Shepherds Flat Phase 3 (250 MW), 8/1/2013 (\$2.5M 230 kV terminal/collector addition)

Total for FY2013 – 750 MW (\$18.5M)

