

**SDG&E Assumptions in the  
DRAFT UNIT COST GUIDE  
2/22/2011**

For all construction:

-Straight time work

For Substation work:

- Normal assemblies, not extra seismic additions to structures
- Used current equipment contract pricing, (always subject to change)
- No site development, permitting, or environmental costs included

For Transmission Line Construction:

- Excludes cost for ROW and Land Acquisition, no licensing costs are included.
- Costs provided are installed costs, including costs of material, engineering, labor, and project management, and anticipated Environmental Mitigation costs.
- Facilities are to be constructed to SDG&E Standards
- Costs are in 2011 dollars
- Per mile transmission line costs assume that access road work will be required. The estimates include SDG&E's assumptions of "average" grading for New Line construction and "minor" grading for Rebuilt Transmission Lines. (See factor table).
- EMF is 4% of total project cost before contingency

For 69kV: 1 - ACSR conductor / phase

- 20 wood equivalent steel poles per mile for single circuits
- 28 wood equivalent steel poles per mile for double circuits (accounting for Deadends)
- Rebuilds assume all poles replaced 20/20 for single circuit and 20/28 for double circuit

For higher voltages: 1- ACSR conductor / phase single circuit, 2-ACSS conductor / phase double circuit

- 6 Anchor Bolted Steel poles per mile
- 8 H - frames per mile for wood equivalent structures