



## 2009 Master Plan Summary

Truckee Donner Public Utility District (the District) is a non-profit, publicly owned utility committed to providing cost-effective, reliable power to the greater Truckee area. The District serves approximately 13,000 residential and commercial electrical customers in the Downtown, Gateway, Tahoe Donner, Donner Lake, and Prosser neighborhoods as well as parts of Sierra Meadows, Martis Valley and Glenshire. To meet the above goals, the District prepares a Master Plan Study every five years to ensure the electrical system can meet current and future needs.

The District owns and operates approximately 127 miles of primary overhead and 79 miles of primary underground electrical distribution circuits. Power is provided through 4 electrical substations and fifteen distribution circuits throughout Truckee. The District also serves the western portion of Glenshire through a distribution feeder which is shared with NV Energy (formerly Sierra Pacific).

The goal of the Master Plan Study is to assess how well the electric system handles current and future demands while meeting established reliability criteria over a 15-year planning period. This includes analyzing contingency situations, such as the loss of a substation or other essential equipment. Future demands are predicted by an analysis of projects included in the Town of Truckee General Plan and an estimated electrical growth rate for the Study. For the ten year period ending in 2007, the number of connections grew by 2% annually, and power consumption grew by nearly 2.4% annually. However, due to conservation efforts and a slowdown of large scale development, the District anticipates growth for the planning period to be 1.8% annually. This rate was applied to the electric system model to determine impacts and required mitigation measures. From this analysis, the necessary capital improvement projects are identified for the planning period.

### Major Projects by Year and Estimated Annual Costs:

The table on the following page outlines the major projects and the estimated project cost by year. The substations affected by the work are listed after the project in parenthesis with the following abbreviations: DL- Donner Lake Substation, TD-Tahoe Donner Substation, TR-Truckee Substation, MV- Martis Valley Substation, and GL-Glenshire circuit. Pole replacement is routine maintenance and occurs annually throughout the District for the planning period.

YEAR	MAJOR MASTER PLAN PROJECTS	ESTIMATED ANNUAL TOTAL COST	PROJECTED COMPLETION (update yearly)
2009	Pole replacements Construction of approx. 2 miles of new overhead (OH) line (DL) Rebuild Tahoe Donner Substation (TD) Rebuild approx. 1.85 miles OH line (DL, TD, TR) Replace approx. 0.5 miles of underground (UG) line (TD, TR)	\$2,027,000	ongoing 11/2009 10/2010
2010	Pole replacements Rebuild Donner Lake Substation (DL) Rebuild approx. 1.5 miles OH line (TD)	\$1,965,000	Ongoing 2012
2011	Pole replacements Rebuild approx. 1.2 miles OH line (TD)	\$422,000	
2012	Pole replacements Rebuild approx. 2 miles OH line (DL, TD)	\$677,000	
2013	Pole replacements Rebuild a approx. 0.9 miles of OH line (TD) Construct infrastructure for approx. 1.5 miles UG line (TD)	\$1,362,000	
2014	Pole replacements Install 1.5 miles cable for new UG line (TD)	\$245,000	
2015	Pole replacements Rebuild approx. 0.7 miles OH line (TD)	\$285,000	
2016	Pole replacements Rebuild approx. 1.3 miles OH line (TD, TR)	\$449,000	
2017	Pole replacements Rebuild approx. 0.8 miles OH line (DL, TD)	\$326,000	
2018	Pole replacements Rebuild approx. 0.8 miles OH line (DL, TD, TR)	\$315,000	
2019	Pole replacements Rebuild approx. 1.4 miles OH line (TR, MV)	\$469,000	
2020	Pole replacements	\$105,000	
2021	Pole replacements	\$105,000	
2022	Pole replacements	\$105,000	
2023	Pole replacements Rebuild approx. 1.2 miles OH line (TD, TR)	\$419,000	

Estimated Total 15 Year Cost: \$9,276,000