



2008-09 Work Plan

And Project Overview

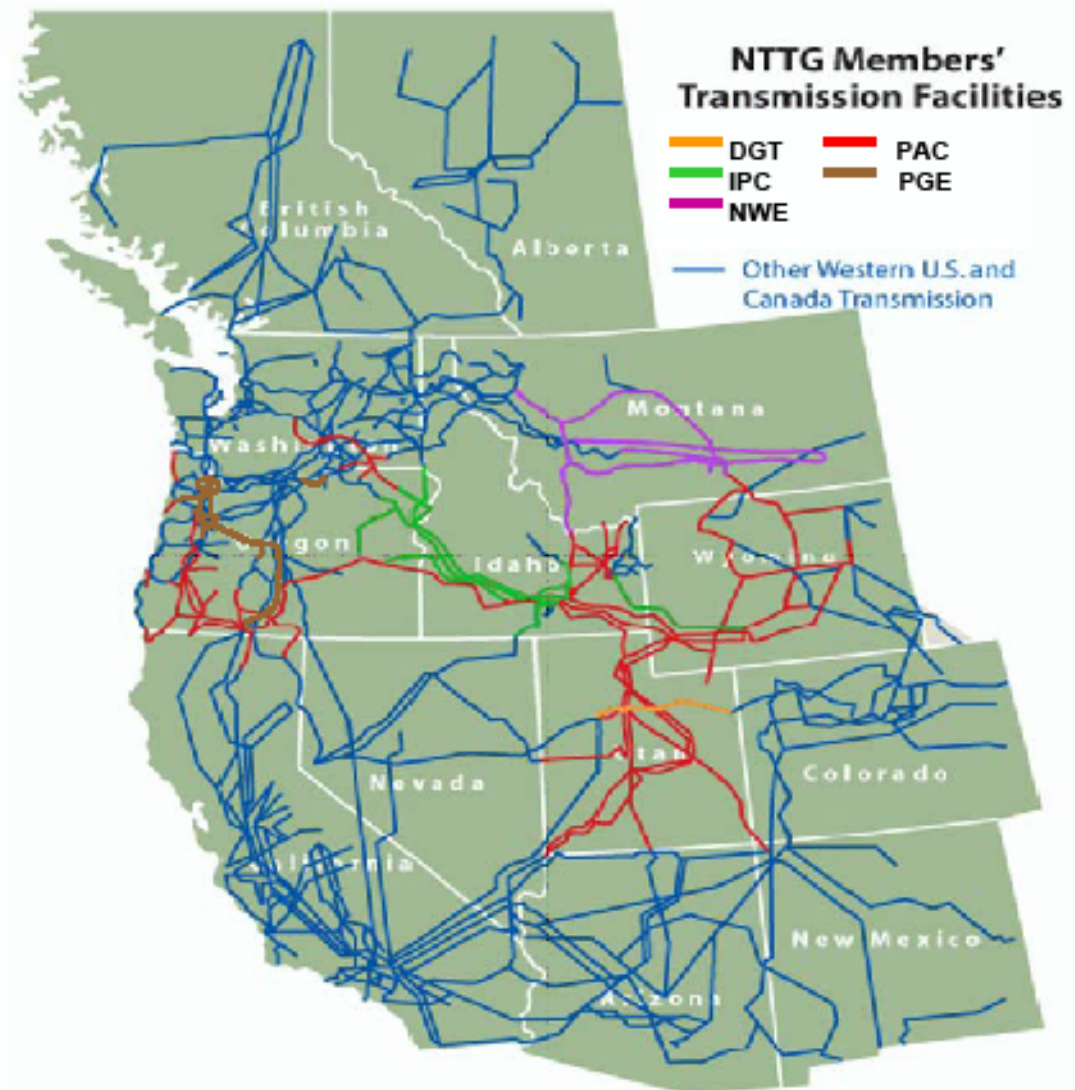
Presented November 4, 2008 at
SSPG Planning Meeting

**“To ensure efficient, effective, coordinated use & expansion
of the members’ transmission systems
in the Western Interconnection
to best meet the needs of customers & stakeholders.”**



Northern Tier Transmission Group

- Geographically sparse load areas connected and interconnected by high voltage transmission
- Many large resources remote from load areas
- Strong access to diverse climate, economic and resource areas





Loads

Balancing Authority	2018 Heavy Summer	2018 Light Autumn
PacifiCorp West ^[1]	3,651	1,972
PacifiCorp East ^{[1] [2]}	15,721	8,233
Black Hills ^{[2] [3]}	728	757
Deseret ^[2]	357	160
UAMPS ^[2]	91	42
Idaho Power	3,953	1,748
Portland General	4,331	2,166
NorthWestern Energy	1,906	1,010

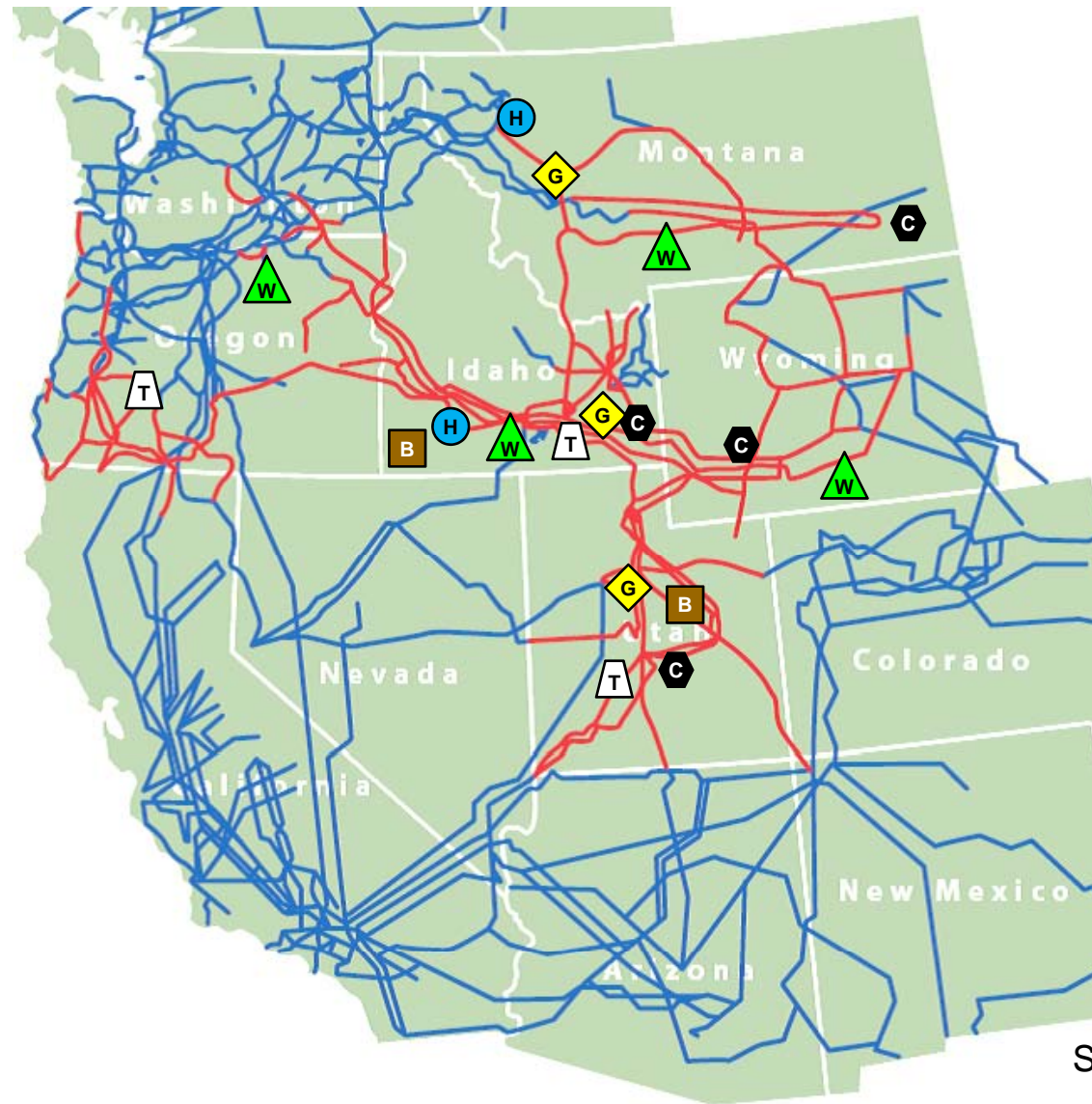
Notes:

- [1] Published PacifiCorp loads are forecasted through 2016. 2018 loads were estimated by increasing 2016 loads by the 2015 – 2016 growth rate.
- [2] Loads for Black Hills, Deseret Power and UAMPS are embedded in the PacifiCorp East forecast.
- [3] Loads shown for Black Hills include those of Cheyenne Light, Fuel & Power.



SUBMITTED RESOURCES

	Installed Capacity Summer 2018 - MW
Wind	7,076
Gas-Fired	2,409
Coal-Fired	1,542
Other, Unknown	90
Hydroelectric	180
Geothermal	110
Total	11,407





Resources by Type

Installed Capacity (Nameplate MW; Minimum, if Given as Range)

MW	Wash.	Oregon	Idaho	Montana	Utah	Wyoming
Coal	-	-	250	968	86	238
Natural Gas	-	-	543	770	1,096	-
Wind		1,625	571	2,316	-	2,564
Geothermal	-	36	39	-	35	-
Hydroelectric	-	-	66	114	-	-
Other	-	-	71	-	19	-
Total	0	1,661	1,541	4,167	1,236	2,802

- 1) Data from Northern Tier Transmission Group's 2008 First Quarter Data Request.
- 2) For projects specified to be in service in or before 2018 (excludes 'unknown' or 'to be determined').
- 3) Does not yet include data for Portland General.



NTTG Transmission Portfolio

