



Fast Track Planning Final Summary

May 23, 2007

“To insure efficient, effective, coordinated use & expansion of the member’s transmission systems in the Western Interconnection to best meet the needs of customers & stakeholders. “



Fast Track Transmission

Given the long-lead requirements of planning, permitting, and constructing major transmission lines, NTTG has begun the transmission expansion process where clear needs exist.

The formal planning cycle starting later in 2007 will help refine project proposals and identify additional requirements in an adaptive, iterative approach beginning with the list of Fast Track Transmission Projects.



Updates

recent updates:

3/18/07 – suggestions from 3/14/07 meeting in Portland

3/23/07 – PacifiCorp load forecasts

3/26/07 – SSG-WI loads, more updates and validation required

4/11/07 – UAMPS loads and resources

4/11/07 – Oregon/Washington and other wind resources

4/13/07 – PGE IRP updates

5/23/07 – additional stakeholder review/comments



Annual Peak MW Load Information

expected growth forecasts- high growth scenarios may be 50% above values shown

<u>Map ID</u>	<u>Owner</u>	<u>Location</u>	<u>Data Source</u>	<u>2006 load</u>	<u>2012 expected growth</u>	<u>2017 expected growth</u>	<u>2022 expected growth</u>
1	Idaho Power	Boise	2006 IRP	1921	300	600	950
3	Idaho Power	Twin Falls	2006 IRP	800	75	150	209
2	Idaho Power	Pocatello	2006 IRP	400	26	48	72
4	NorthWestern	NWE.SYSTEM	IRP - 2022 not forecast	1658	94	214	
7	PacifiCorp	Washington/Oregon	2007 IRP	1373	160	203	268
5	PacifiCorp	South/Central Oregon	2007 IRP	1409	125	160	256
8	PacifiCorp	Goshen/SE Idaho	2007 IRP	596	208	272	335
9	PacifiCorp	Wyoming	2007 IRP	998	284	462	606
10	PacifiCorp	Utah South	2007 IRP	440	59	164	250
11	PacifiCorp	Utah North	2007 IRP	4264	897	1710	2486
13	Portland General	Portland	PGE - 2022 not forecast	3840	532	1020	
14	UAMPS	Utah	UAMPS - 2006 load not shown		585	585	585
12	PacifiCorp	Portland	2007 IRP	578	108	140	202
15	NW-West	NW-West-North	SSG-WI 1% growth rate	7054	1041	2082	3123
16	NW-East	NW-East-North	SSG-WI 1% growth rate	7997	68	136	204
17	NW-West	NW-West-South	SSG-WI 1% growth rate	8750	230	460	690
18	NW-East	NW-East-South	SSG-WI 1% growth rate	2281	139	277	418
					8683		

* SSG-WI Load forecasts in NWPP area have PGE and PAC loads removed, and then has load bubbles split into North/South.

updated as of 05/23/07



Potential Resource Additions

Sum of MW Capacity	Type			
State	Coal	Gas	Wind	Grand Total
Colorado	1540	210	1050	2800
Idaho			945	945
Montana	1109	260	1705	3074
Nevada	1500		100	1600
Oregon			5060	5060
Utah	1525	140	800	2465
Washington			5577	5577
Wyoming	1975	50	2410	4435
Grand Total	7649	660	17647	25956

updated as of 04/11/07



Potential Resource Additions

<u>Resource</u>	<u>State</u>	<u>Type</u>	<u>MW Capacity</u>
Colorado East	Colorado	Coal	1540
Colorado East	Colorado	Gas	210
Colorado East	Colorado	Wind	800
Colorado West	Colorado	Wind	250
Idaho Goshen	Idaho	Wind	125
Idaho South	Idaho	Wind	820
Montana Broadview	Montana	Coal	500
Montana Broadview	Montana	Wind	970
Montana Colstrip	Montana	Coal	609
Montana Crossover	Montana	Wind	255
Montana West	Montana	Wind	480
Montana West	Montana	Gas	260
Nevada Coal	Nevada	Coal	1500
Nevada Wind	Nevada	Wind	100
Oregon E Gorge	Oregon	Wind	4960
Oregon South	Oregon	Wind	100
Utah North	Utah	Wind	350
Utah South	Utah	Coal	950
Utah South	Utah	Gas	140
Utah South	Utah	Coal	575
Utah South	Utah	Wind	450
Washington Central	Washington	Wind	1634
Washington E Gorge	Washington	Wind	3943
Wyoming Big Horn Basin	Wyoming	Wind	250
Wyoming Central	Wyoming	Coal	1400
Wyoming Central	Wyoming	Gas	50
Wyoming Central	Wyoming	Coal	575
Wyoming Central	Wyoming	Wind	160
Wyoming Laramie River	Wyoming	Wind	1000
Wyoming South West	Wyoming	Wind	1000



Fast Track Candidate Transmission

as shown on the map

<u>Tlines</u>	<u>Fast Track</u>	<u>Approximate Miles</u>
North West-Boise	Idaho	250
Montana-SE Idaho	NorthWestern Energy	300
Populus-Midpoint	PAC/IPC	220
Bridger-Populus	PAC/IPC	230
Eastern Wyoming-Wyoming	PAC/IPC	170
Populus-Borah	PAC/IPC	50
Borah-Midpoint	PAC/IPC	80
Midpoint-Melba	PAC/IPC	110
Californian/Oregon Border-Boise	PacifiCorp	360
Wyoming-Wasatch	PacifiCorp	225
Populus-Wasatch	PacifiCorp	125
Mona-Wasatch	PacifiCorp	125
Mona-Nevada	PacifiCorp	225
Mid C-Eastern Oregon/Washington	Potential	110
Mid C-Portland	Potential	150
Eastern Oregon/Washington-Portland	Potential	170
Californian/Oregon Border-Portland	Potential	250
Montana-Northwest	Potential	475
Eastern Montana-Montana	Potential	300
Eastern Wyoming-Central Wyoming	Potential	175
Eastern Wyoming-Colorado	Potential	150
Ely-Midpoint	Potential	225
Ely-Mona	Potential	140

Fast Track Transmission Segments

