NWGA
NORTHWEST GAS ASSOCIATION

2011 GAS OUTLOOK

NATURAL GAS DEMAND, SUPPLY, CAPACITY AND PRICES IN THE PACIFIC NORTHWEST

PROJECTIONS THROUGH OCTOBER 2020

This report, compiled by the Northwest Gas Association (NWGA) and its members, provides a consensus industry perspective of the Pacific Northwest's current and projected natural gas demand, supply, delivery capabilities and prices through 2020. Because much of the content of the NWGA's *2010 Gas Outlook* is still relevant, this summary constitutes the NWGA's *2011 Gas Outlook*. Data or trends that have changed are presented and discussed here; to access the full *2010 Gas Outlook* go to www.nwga.org, click the Documents & Media tab, click NWGA White Papers and Studies.

WHAT'S NEW

Changing dynamics of Pacific Northwest energy markets noted in the last Gas Outlook (January, 2010) continue. Prices for natural gas and electric power have been relatively low and stable compared to previous years, due largely to a sluggish economy. In the past 12 months, however, the economy has shown signs of a tentative recovery, warranting a slight uptick in projections (~2012 and beyond). At the same time, North American natural gas supply continues to grow as producers bring increasing quantities of unconventional resources (primarily shale gas) to market. The implications of recent changes in these key market drivers are discussed below, along with the current status of new infrastructure (pipelines) proposed to serve the region.

PUTTING IT ALL TOGETHER

For the next several years, the economy will likely remain the key driver influencing natural gas demand and prices in the Pacific Northwest and across North America. The speed at which an economic recovery occurs, and actions taken by energy industry participants to comply with carbon-reducing energy policy mandates, will dictate how quickly demand may grow over the next 10 years – influencing prices and decisions to invest in more wells and pipelines. One thing is sure: the natural gas resource available to serve our energy needs is abundant, secure and accessible across North America.

Even with abundant supply, we must be mindful of using natural gas in the most environmentally respectful manner. Industry stakeholders, policymakers and consumers – and our planet – are best served by putting natural gas to its most efficient use: directly heating homes, buildings and water. Longer term, natural gas can play an important role in displacing more carbon-intensive liquid fuels, such as diesel, in the transportation sector.

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2011 GAS OUTLOOK - REGIONAL NATURAL GAS DEMAND

KEY CONCLUSIONS

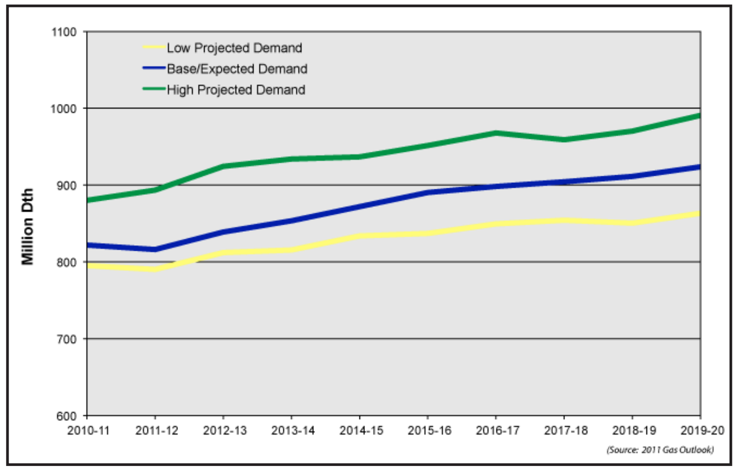
- Over the next 10 years, natural gas consumption in the Pacific Northwest is expected to grow an average of 1.3 percent per year, slightly more than the 1 percent annual growth projected in the last Outlook. Cumulative projected growth through 2020 is 11 percent (see Table 1 and Figure 1).
- Annual load projections are a little higher than those in January 2010 Outlook, anticipating modest regional economic recovery. However, overall demand projections are still more than 10 percent lower than our forecast two years ago. Peak day demand projections also declined across the region over the last two years.
- Energy policies continue to encourage greater use of clean-burning natural gas to help reduce greenhouse gas (GHG) emissions and complement development of renewable energy resources.

Table 1. Projected Regional Demand Growth through 2020[1, 2]

	Low Demand Growth		Expected (Base) Demand Growth		High Demand Growth	
	Average Annual	Cumulative	Average Annual	Cumulative	Average Annual	Cumulative
Total	**0.90%**	**7.89%**	**1.30%**	**11.02%**	**1.60%**	**13.51%**
Residential	0.80%	7.33%	1.20%	9.92%	1.80%	14.91%
Commercial	0.90%	7.76%	1.20%	10.30%	2.20%	17.99%
Industrial	0.20%	2.01%	0.80%	6.65%	0.80%	6.87%
Generation[2]	1.60%	13.39%	2.00%	16.31%	1.80%	14.47%

Source: 2011 Gas Outlook

Figure 1. Demand Forecast by Case[3]



A CLOSER LOOK

Weak economic conditions continue to linger in the Northwest, affecting projections for the demand of natural gas across every sector. In fact, demand growth remains well short of NWGA forecasts made prior to the recession.

The last two years' iterations of Outlook data reflect an overall reduction in expected gas demand of more than 10 percent (Figure 2). The overall decline includes 25 percent lower projections for industrial load than previously forecast.

Figure 2. Current and Last Two 10-year Forecasts (Base Case)

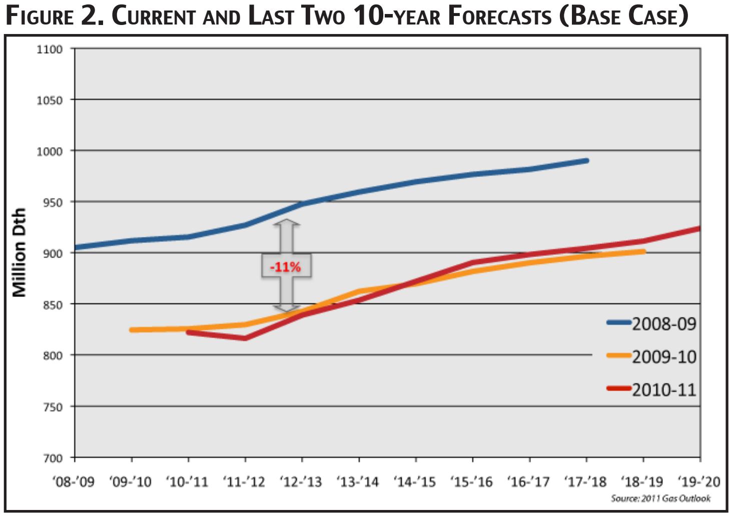
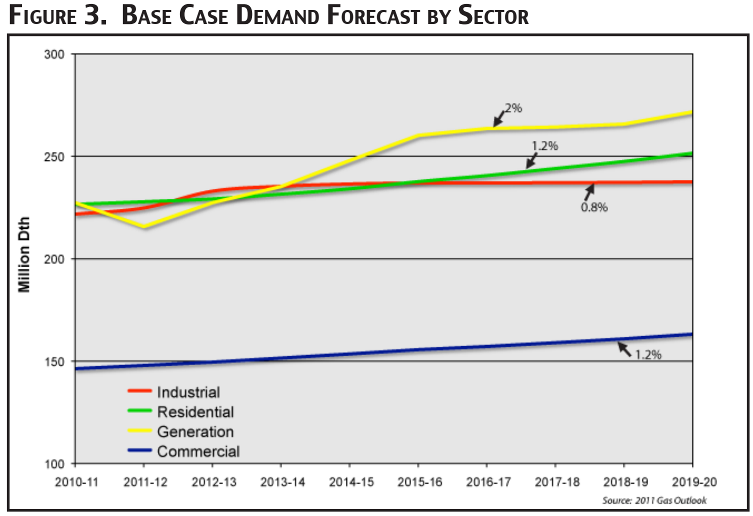


Figure 3. Base Case Demand Forecast by Sector



However, this year's data shows a small overall increase in projected demand over last year's Outlook, reflecting anticipated growth in demand for gas-fired electrical generation and an expected modest but steady growth in core market demand (residential, commercial) as the economy recovers (Figure 3).

Overall demand growth is projected to be slightly lower than predicted last year through 2012, as the region's economic doldrums persist, but will then catch up with and likely surpass the projections made in last year's Outlook.

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[1] Expected (base) demand growth forecasts a slowly recovering economy. Low demand growth assumes slower recovery or a "double-dip" recession, while high demand growth considers a more rapid economic expansion and significantly more generation demand for natural gas. Projected gas prices also influence the respective forecasts.

[2] While the rate of growth in generation demand for natural gas is a little lower in the high case then in the expected case, actual volumes are significantly higher. See data table A2 and A3.

[3] The starting point (2010-11 demand) is different for each case because each represents a different forecast scenario (lower than expected demand, expected or base demand and higher than expected demand).

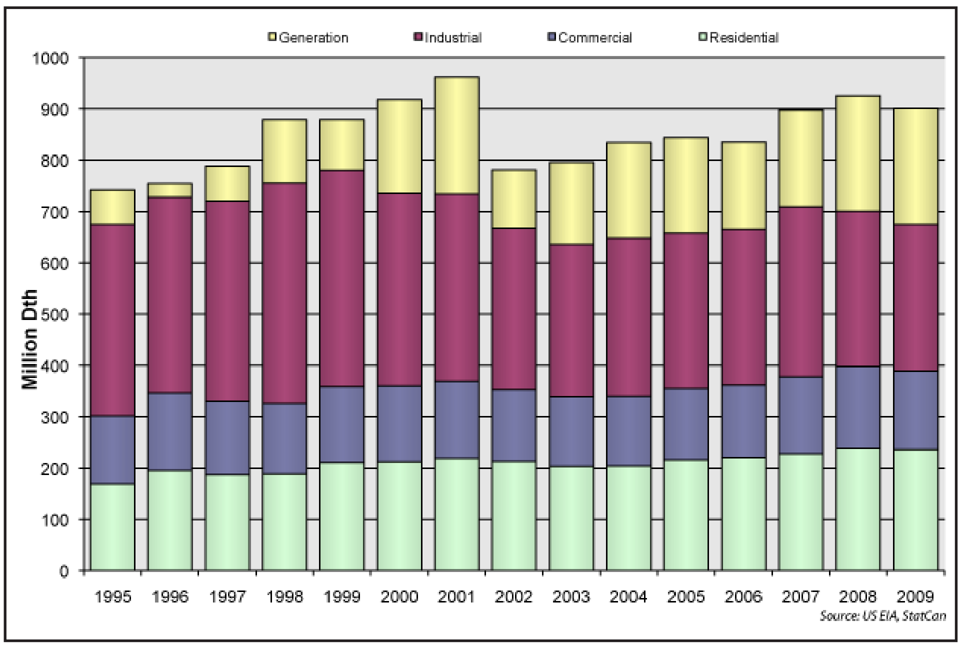
Residential – New housing construction, long a bastion of dependable growth for the natural gas industry in the Pacific Northwest, continues to languish. Pending improvement, growth in residential natural gas demand is not likely to rise above the modest projections of the last three Outlooks, this year at **1.2 percent average annual growth** (See Table 1).

Commercial – As goes the economy, so goes commercial demand for natural gas. Restaurant patronage, for example, was dismal during the recession, as were occupancy rates in commercial buildings. Our projection of **1.2 percent average annual growth** in this year's Outlook outpaces the 0.8 percent projected last year and may be one harbinger of economic recovery.

Industrial – Industrial loads were hit hard by the recent recession. The region lost almost 15 percent of its industrial gas load relative to 2007 (Figure 4). The wood products and pulp and paper industries were but two particularly affected by the economic downturn. Looking ahead, we are projecting **0.8 percent average annual growth** in industrial gas demand. As illustrated in Figure 3, the increase in industrial demand accelerates as the economy recovers (through 2013), then stabilizes for the rest of the forecast period.

Generation – Though subject to weather (temperature, wind, snowpack/water) and the availability of other resources (hydro, coal, wind, nuclear), overall the region is using more natural gas to generate electricity (Figure 4). This trend is expected to continue; we are forecasting an **average annual growth rate of 2 percent** in gas use for generation. Drivers of regional demand for natural gas as a generation fuel include growing electricity loads, public policies that limit alternatives for new generation, regulatory pressures to close coal plants, the need to back up the region's expanding wind generation resource and current moderate natural gas prices[4].

Figure 4. Historic Natural Gas Demand by Sector



Other trends in regional demand growth identified last year continue. Individual consumers are using less natural gas because of energy efficiency efforts (e.g., weatherization, purchasing more efficient appliances) or the need to economize (e.g., turning down the heat to reduce bills). This has slowed the growth of year-round (base-load) demand while peak demand - triggered by weather (e.g. a cold spell causing residential furnaces to run longer) or short-term factors - is growing faster. This dynamic is more challenging for utilities to serve.

Also, as green energy policies continue to shape federal, regional and local energy choices, they will encourage expanded use of natural gas for space/water heating, fueling vehicles and electrical generation. (For a comprehensive look at how natural gas plays a key role in climate change policies, view the NWGA's White Paper, *Natural Gas and Climate Change in the Pacific Northwest*, available at www.nwga.org, select the Documents & Media tab, select the NWGA White Papers and Studies.)

[4] The generation demand forecast and the corollary supply/demand balances included in the Capacity section represent the best data available to the NWGA. They include growth in demand for natural gas-fired generation by Avista and Puget Sound Energy (NWGA members), but not for all regional power utilities. The NWGA is collaborating with the regional electric industry to improve its analysis of future generation demand for natural gas and associated impacts.

2011 GAS OUTLOOK - SUPPLY SERVING THE REGION

KEY CONCLUSIONS

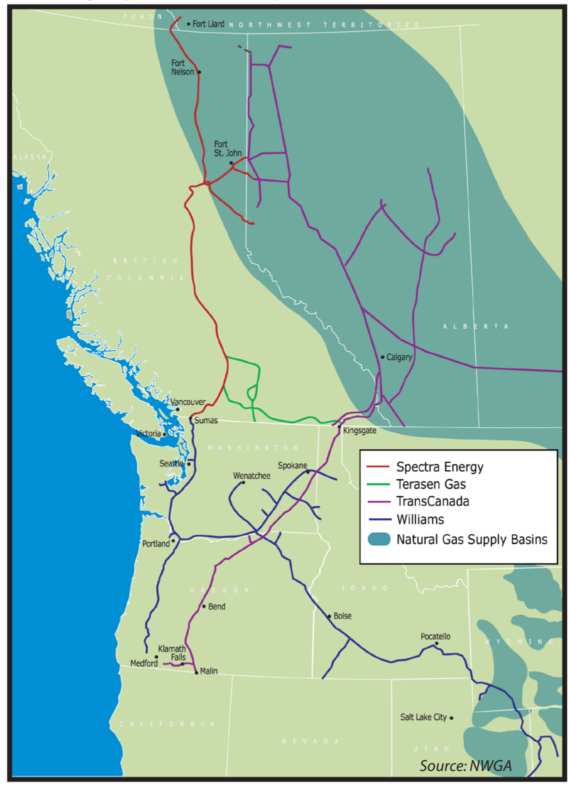
- North American producers continue to develop and bring newly recoverable natural gas resources to market, maintaining relatively high continental supply levels. Due to a variety of factors, including lease requirements and increasing well productivity, sustained low gas prices and declines in drilling activity have not significantly affected growing supplies to date.

- The Pacific Northwest market benefits from its proximity to the prolific Western Canadian Sedimentary Basin (WCSB) and U.S. Rockies gas-producing regions, where unconventional gas plays (primarily shale) are boosting production further.

- Competition for the supplies upon which the Northwest depends continues as producers seek more lucrative markets and new pipelines are built.

- Global natural gas supplies remain plentiful, providing another source of supply for North America. If and when imported liquefied natural gas (LNG) will serve the Pacific Northwest depends on future market conditions.

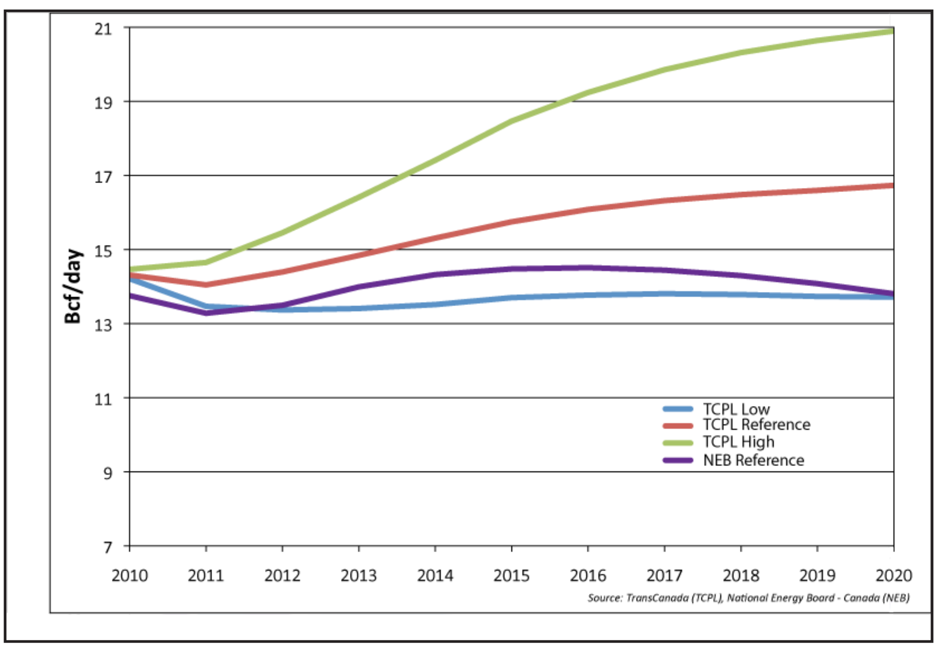
Figure 5. Supply Areas Serving the PNW



A CLOSER LOOK

Currently, total annual natural gas production in the WCSB and Rockies production areas exceeds 26 billion cubic feet per day (Bcf/d) and could approach 30 Bcf/d by 2020, largely due to unconventional gas development (Figures 6, 7). About 16 Bcf/d is projected to come from the WCSB by 2020 and more than 12 Bcf/d from the Rockies.

Figure 6. WCSB Production Forecast



These forecasts reflect development of the large Montney and Horn River plays in northeast British Columbia (BC) and shale plays in the Greater Green River Basin in the U.S. Rockies, among others. Already, shale plays are producing about 20 percent of North America's natural gas supply, and are expected to make up 50 percent by 2020[5].

According to the Potential Gas Committee, continental natural gas resources are now estimated at well over 100 years' supply at current consumption rates[6]. Current gas supplies are plentiful and continue to increase. This trend is being sustained in spite of lower commodity prices and the deactivation of many drilling rigs, because the economics of shale drilling are improving and individual rigs are more productive.

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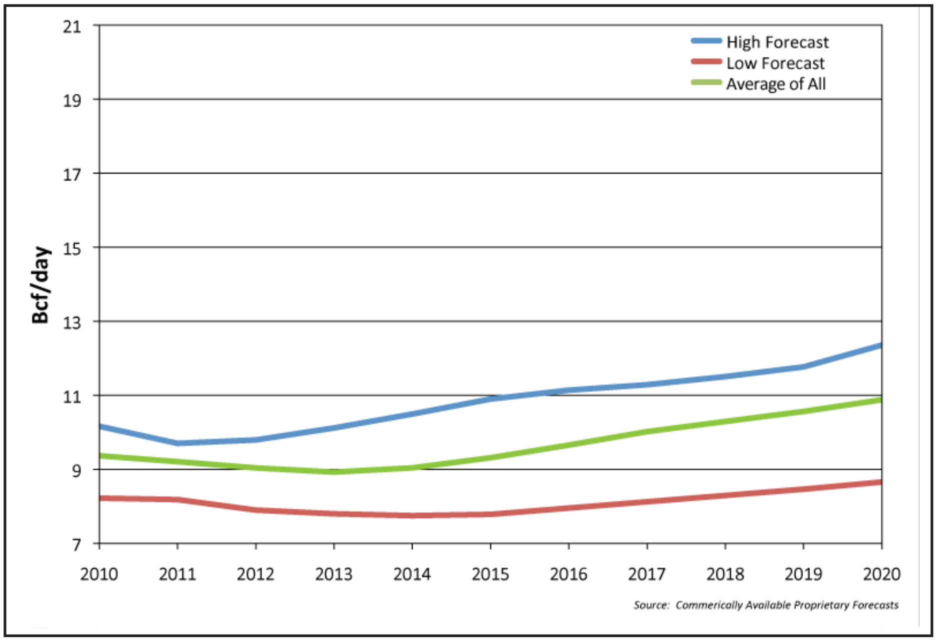
[5] Oil & Gas Journal, *US gas market is in good shape,* FERC analysts tell commission, October 27, 2010.
[6] Potential Gas Committee, *Biennial Natural Gas Resource Assessment*, December 31, 2008.

Figure 7. U.S. Rockies Production Forecasts



"Shale gas development has turned the economics of drilling for gas on its head. The cost of developing shale gas has declined and well productivity has increased as drillers gain experience with the new technology. In some instances, the time needed to drill a shale gas well has plunged from weeks to just days. This has driven down break-even costs for most gas shales to less than $4/MMBtu and even lower when natural gas liquids such as propane, ethane, and butane are present."

-- Christopher Ellsworth, chief of the fuels market analysis branch, FERC, Oil & Gas Journal, Oct. 27. 2010.

Figure 8. North American Shale Plays

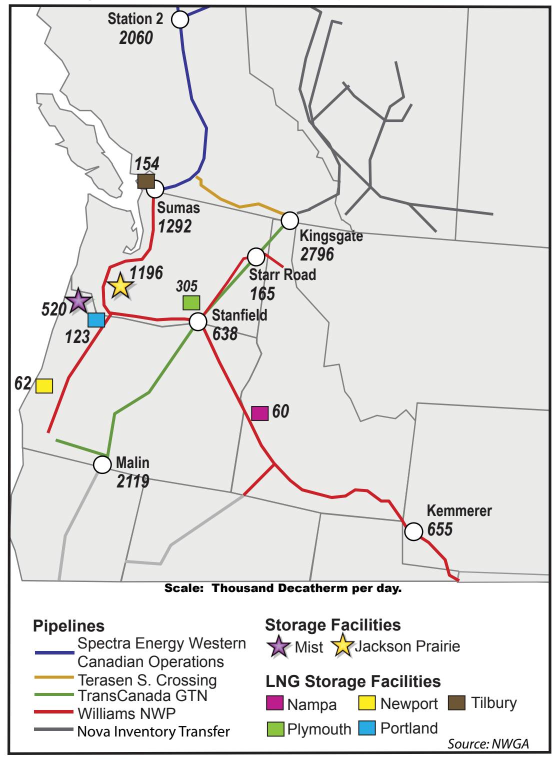
(For a comprehensive look at natural gas supply issues, including the rapidly growing role of shale gas, view the NWGA's White Paper, *Natural Gas Supply Serving the Pacific Northwest*, available at www.nwga.org, select the Documents & Media tab, select NWGA White Papers and Studies.)

2011 GAS OUTLOOK - REGIONAL SYSTEM CAPACITY

KEY CONCLUSIONS

- The region's growing dependence on natural gas to help meet its environmental goals will drive the need for additional infrastructure to enhance supply options and create regional flexibility.
- Currently, during extreme weather events (peak days), the existing system of natural gas pipelines and storage facilities serving the Northwest is efficiently utilized with little redundancy. Very cold weather occurring coincidentally across the region could stress the capacity of the system.
- Changing market conditions over the past two years have altered the plans of some proposed pipeline projects. The region's emerging need for more delivery capacity may be less imminent, but exists within the planning horizon of this Outlook.

FIGURE 9. KEY INFRASTRUCTURE SERVING THE PNW



A CLOSER LOOK

The Pacific Northwest's 48,000-mile network of transmission and distribution pipelines serves more than 3.2 million natural gas customers. Combined with underground and peak storage facilities, the region's natural gas infrastructure is currently capable of delivering more than 6.3 million Dth/day of gas at peak capacity, increasing to 6.5 million Dth/day in 2012.

Under normal weather conditions and with expected growth in demand, the system along the I-5 corridor (where most of the region's population resides) appears adequate to serve the winter load through 2020. Figure 10 illustrates that the load projected for a colder than normal winter at the end of our forecast period (2020) will be served by existing pipeline and underground storage capacity. Peak storage resources do not appear to be required under this scenario and no service interruptions are anticipated. Figure 11, on the other hand, shows the same scenario under the high demand case: all available resources will be required and there may be periods of unmet demand.

FIGURE 10. I-5 CORRIDOR DAILY DEMAND/SUPPLY BALANCE

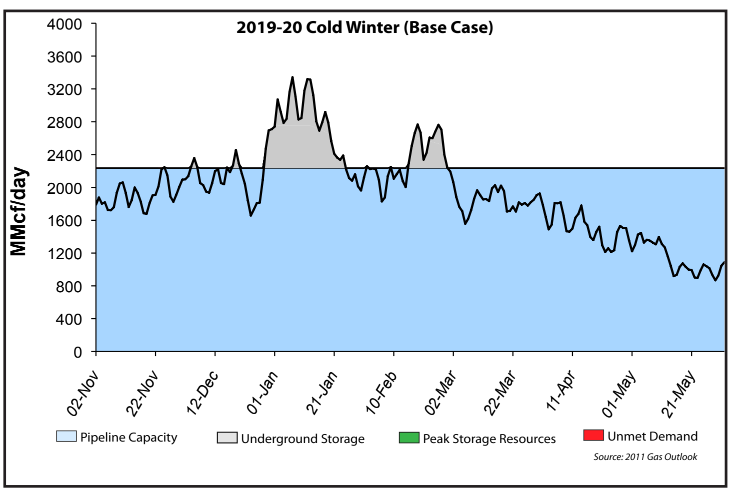
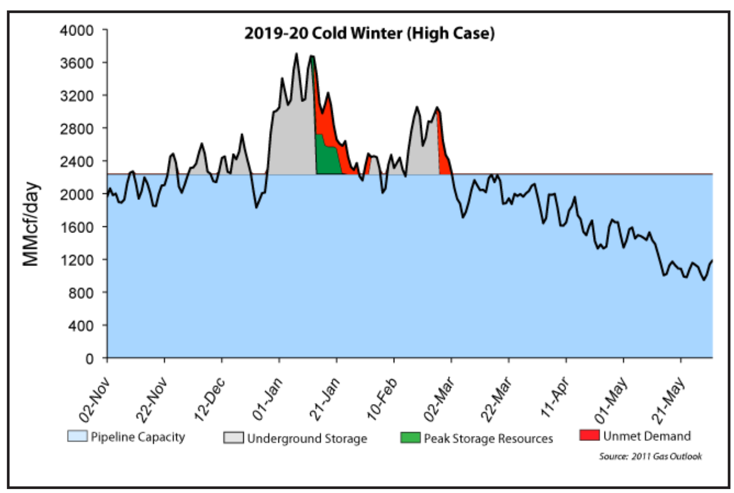


FIGURE 11. I-5 CORRIDOR DAILY DEMAND/SUPPLY BALANCE



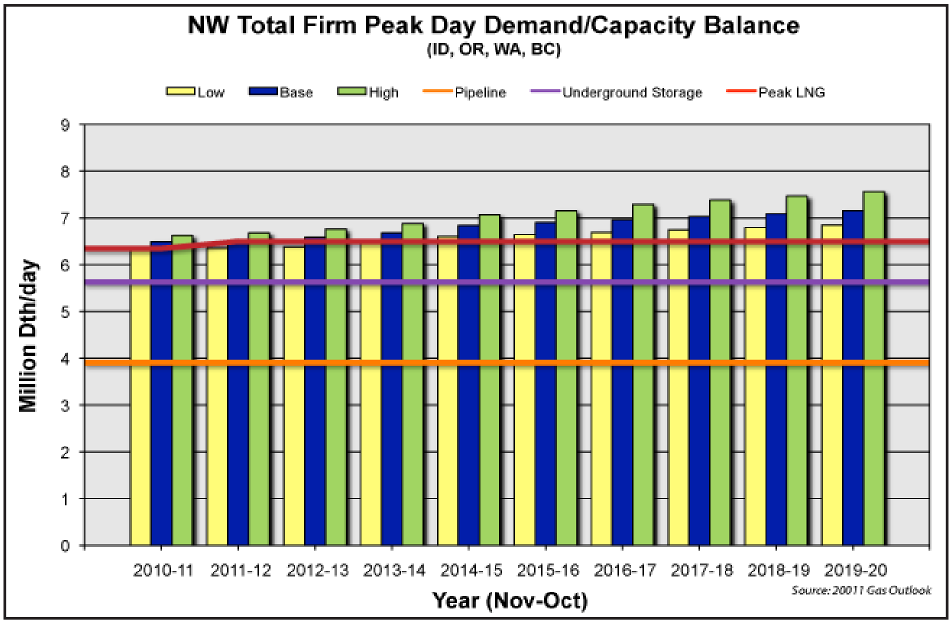
Because they are committed to preventing service disruptions regardless of the circumstances, natural gas utilities design their systems to accommodate extreme but still probable weather conditions, also called peak or design days. Figure 12 aggregates the design days of NWGA members and plots them against available capacity. Peak day demand will begin to stress the system, approaching or exceeding the region's infrastructure capacity within the forecast period.

While the probability of design days occurring in every system across the region on the same day (i.e. "coincidental peak day") is small, the possibility of very cold weather occurring across the region is reasonably high. Furthermore, Figure 12 assumes that all of the capacity that exists in the region is operating at 100 percent deliverability[7].

Adding another measure of uncertainty to the mix is growing demand on the gas system to integrate intermittent wind generation. Up to this point, the Pacific Northwest has generally been able to integrate wind resources effectively with highly flexible hydroelectric generation, but those resources are limited. The region is reaching the limit of its ability to effectively manage wind generation variability with hydro. It is now expected that gas-fired generation will be vital to balance the electrical system, coming on-line or going off-line quickly as needed. The impact of this new demand on the region's natural gas infrastructure is unknown until more experience is gained.

[7] Regional capacity includes all existing facilities and Terasen's Mt. Hayes peak LNG facility, which is under construction and slated to come into service in 2011. Proposed projects are not Included in capacity.

Figure 12. Regional Peak Day Supply/Demand Balance By Growth Case



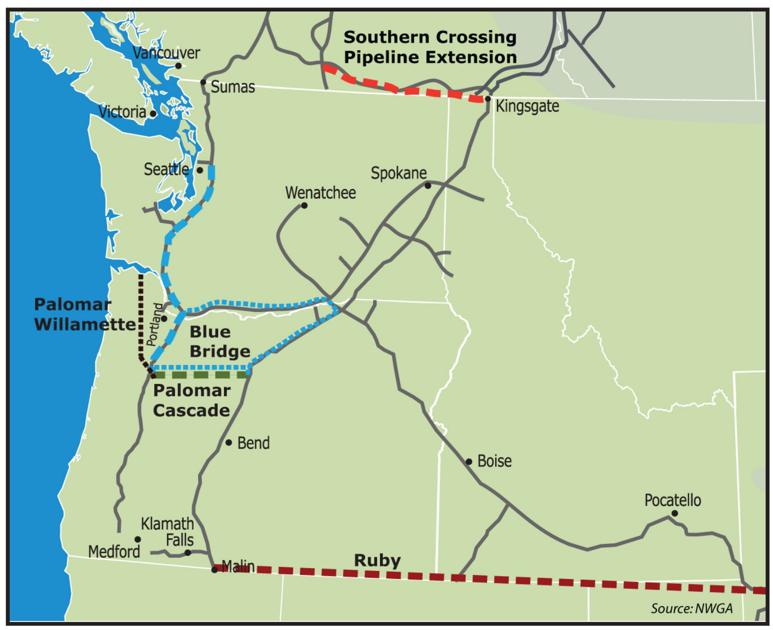
Analyses such as these help send signals to the market about the need for additional capacity. Market participants weigh the probability of disruptions and the costs of various infrastructure options to make decisions about what is needed and when.

In the last few years, several projects have been proposed to accommodate future delivery capacity needs. Reductions in projected demand and an expected slow recovery appear to have deferred the need for additional infrastructure for a few years. Still, it is not a matter of if, but when new additional capacity will be required. Here is a brief update on regional pipeline proposals:

Ruby Pipeline – El Paso Natural Gas began construction in July 2010 on this 675-mile, 42-inch diameter pipeline that will bring Rockies gas from western Wyoming (Opal) to the West Coast at Malin, Oregon. Expected to be in service by summer 2011, the pipeline has an initial design capacity of 1.5 billion cubic feet per day (Bcf/d). The pipeline is expected to primarily serve California and markets to the south, but provides flexibility for bringing more Rockies supply to the Northwest.

Blue Bridge – Williams Northwest Pipeline (NWP) recently suspended work on its original Blue Bridge expansion project, which would have provided incremental transportation service from Stanfield to markets in along the I-5 Corridor via an expansion of its system through the Columbia River Gorge. NWP is currently working with NW Natural and TransCanada GTN (see next paragraph) on a concept where NWP would contract for capacity on GTN and the east zone of Palomar in combination with an expansion of its system in the I-5 Corridor to provide a similar service. This Blue Bridge TBO (transportation-by-other) arrangement on GTN and Palomar would be combined with up to 102 MDth/d of turn-back vintage capacity through the Columbia River Gorge corridor and would allow the project to serve the combined demand growth of both Oregon and Washington markets, which is needed to support the construction of a cross-Cascades project.

Figure 13. Proposed Pipeline Projects



Palomar Pipeline – NWP has signed a non-binding memorandum of understanding (MOU) with the current Palomar pipeline project sponsors – NW Natural and TransCanada GTN – for the purpose of developing the Cascade (Eastern) section of Palomar in conjunction with an expansion to the existing the NWP. The Cascade section of Palomar would consist of a 106-mile, 30-inch diameter pipeline that would run from GTN's mainline in central Oregon to a NW Natural/NWP hub near Molalla, Oregon – enhancing delivery capacity to the I-5 Corridor. Palomar would be a bi-directional pipeline with an initial capacity of approximately 300 million cubic feet per day (MMcf/d), expandable to up to 750 MMcf/d. It would be linked to an expansion on the existing NWP system to deliver gas to other markets along the I-5 corridor (see above paragraph). The project sponsors plan to conduct an open season in 2011 for this re-defined project. The western segment of the originally proposed Palomar project, extending from Molalla north to the Columbia River, is unlikely to go forward since the primary shipper – Northern Star Natural Gas, developers of the Bradwood Landing LNG project – has abandoned its project and declared bankruptcy.

Southern Crossing Pipeline Expansion – Terasen Gas continues to explore options to expand service on its Southern Crossing Pipeline (SCP) from Kingsvale to Oliver, BC. Initial design capacity would be 200 MMcf/d, expandable to 400 MMcf/d. Removing constraints would allow expansion of T-South Enhanced Service, which provides shippers access to the winter Sumas market and the summer Kingsgate market that supplies California. An expansion of the SCP bi-directional system would also aid in increasing capacity at Sumas during peak weather events.

2011 GAS OUTLOOK - REGIONAL PRICES

KEY CONCLUSIONS

- Natural gas prices in the Pacific Northwest continue to reflect relatively low demand and abundant supply. Daily spot prices through the first three quarters of 2010 averaged a little more than $4.50/MMBtu, compared to an average of almost $8.00/MMBtu in 2008.

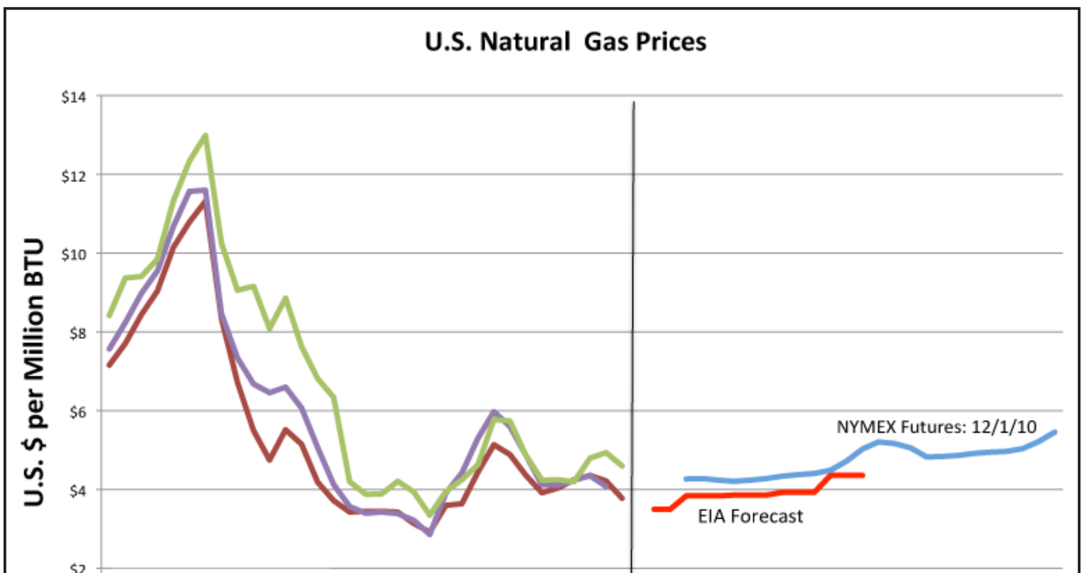
- Policymakers will influence natural gas prices depending on whether and how they address critical issues affecting the supply/demand balance, including access to existing resources, infrastructure development and efficient use of natural gas.

A CLOSER LOOK

Down dramatically from the highs experienced in 2008, natural gas prices are expected to hover around current levels until the economy begins a sustained recovery (see Figure 14). Many utilities in the region, which pass through purchased gas costs to customers without markup, filed near-zero commodity cost adjustments for 2011.

Prices later in the decade will depend on how fast the economy grows, particularly how fast demand grows for gas-fired electrical generation, as generators transition away from coal to cleaner-burning natural gas and renewables (solar, wind). Given the abundance of continental supply, however, consumers are likely to continue benefitting from moderate natural gas prices over the near term.

FIGURE 14. NATURAL GAS PRICES



Note: the EIA forecast reflects economists' views; the NYMEX Futures forecast reflects the market's view.

Northwest Gas Association
2011 Gas Outlook
Peak Day Supply

SUPPLY	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Pipeline Interconnects	**3,903,206**	**3,903,206**	**3,903,206**	**3,903,206**	**3,903,206**	**3,903,206**	**3,903,206**	**3,903,206**	**3,903,206**	**3,903,206**
WCSB via TCPL/GTN	**1,424,941**	**1,424,941**	**1,424,941**	**1,424,941**	**1,424,941**	**1,424,941**	**1,424,941**	**1,424,941**	**1,424,941**	**1,424,941**
Stanfield (NWP from GTN)	*638,000*	*638,000*	*638,000*	*638,000*	*638,000*	*638,000*	*638,000*	*638,000*	*638,000*	*638,000*
Starr Rd (NWP from GTN)	*165,000*	*165,000*	*165,000*	*165,000*	*165,000*	*165,000*	*165,000*	*165,000*	*165,000*	*165,000*
Palouse (NWP from GTN)	*20,000*	*20,000*	*20,000*	*20,000*	*20,000*	*20,000*	*20,000*	*20,000*	*20,000*	*20,000*
GTN Direct Connects	*415,000*	*415,000*	*415,000*	*415,000*	*415,000*	*415,000*	*415,000*	*415,000*	*415,000*	*415,000*
Kingsgate/Yahk BC Interior from TCPL	*186,941*	*186,941*	*186,941*	*186,941*	*186,941*	*186,941*	*186,941*	*186,941*	*186,941*	*186,941*
Rockies via NWP	**495,000**	**495,000**	**495,000**	**495,000**	**495,000**	**495,000**	**495,000**	**495,000**	**495,000**	**495,000**
NWP north from NWP south	*655,000*	*655,000*	*655,000*	*655,000*	*655,000*	*655,000*	*655,000*	*655,000*	*655,000*	*655,000*
Max Demand on Reno Lateral	*(160,000)*	*(160,000)*	*(160,000)*	*(160,000)*	*(160,000)*	*(160,000)*	*(160,000)*	*(160,000)*	*(160,000)*	*(160,000)*
WCSB via DEGT	**1,983,265**	**1,983,265**	**1,983,265**	**1,983,265**	**1,983,265**	**1,983,265**	**1,983,265**	**1,983,265**	**1,983,265**	**1,983,265**
T-South to Huntingdon	*1,753,060*	*1,753,060*	*1,753,060*	*1,753,060*	*1,753,060*	*1,753,060*	*1,753,060*	*1,753,060*	*1,753,060*	*1,753,060*
T-South to BC Interior	*178,705*	*178,705*	*178,705*	*178,705*	*178,705*	*178,705*	*178,705*	*178,705*	*178,705*	*178,705*
T-South to Kingsvale	*51,500*	*51,500*	*51,500*	*51,500*	*51,500*	*51,500*	*51,500*	*51,500*	*51,500*	*51,500*
Southern Crossing to Huntingdon	-	-	-	-	-	-	-	-	-	-
Storage	**2,442,015**	**2,595,057**	**2,595,057**	**2,595,057**	**2,595,057**	**2,595,057**	**2,595,057**	**2,595,057**	**2,595,057**	**2,595,057**
Jackson Prairie (NWP from JP)	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000
(includes deliverability expansion of 312,000 Dth/day in service 2008-09)										
Mist Storage (NWN)	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000
(includes deliverability expansion of 51,310 Dth/day in service 2007-08)										
Plymouth (NWP from LNG)	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300
Newport/Portland LNG (NWN)	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000
Nampa LNG (IGC)	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Gig Harbor Satellite LNG (PSE)	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
Swarr Stn Propane (PSE)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Tilbury LNG (TGI)	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465
Vancouver Island LNG (permitted, provisional)	-	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042
Total Available Supply	6,345,221	6,498,263	6,498,263	6,498,263	6,498,263	6,498,263	6,498,263	6,498,263	6,498,263	6,498,263

Northwest Gas Association
2011 Gas Outlook
Annual Demand Summary (Dth) - Base Case

Region/Sector	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Lower Mainland & Van. Island	**141,983,665**	**139,889,743**	**139,505,958**	**139,255,066**	**139,343,850**	**140,504,943**	**141,772,899**	**142,928,779**	**144,026,025**	**145,067,368**
Residential	53,607,847	53,152,364	52,778,309	52,513,442	52,351,155	52,795,595	53,340,862	53,827,513	54,289,158	54,731,958
Commercial (Sales)	38,859,684	39,214,657	39,573,043	39,902,076	40,304,548	41,012,962	41,693,947	42,332,358	42,940,156	43,510,897
Industrial (Transport & Interruptible)	29,513,771	29,234,519	28,935,832	28,647,282	28,522,126	28,534,514	28,576,218	28,607,037	28,634,839	28,662,642
Power Generation	20,002,364	18,288,202	18,218,774	18,192,265	18,166,022	18,161,871	18,161,871	18,161,871	18,161,871	18,161,871
W. Washington	**273,971,825**	**265,170,169**	**272,729,911**	**279,232,494**	**294,402,819**	**308,109,006**	**311,180,472**	**311,282,844**	**313,626,926**	**320,590,765**
Residential	69,695,646	70,858,570	72,073,740	73,556,157	74,998,128	76,690,109	77,816,900	79,208,756	80,610,917	82,344,010
Commercial (Sales)	42,247,095	42,842,541	43,576,763	44,478,367	45,260,046	46,037,434	46,448,848	47,008,012	47,607,754	48,428,723
Industrial (Transport)	72,016,585	72,447,089	77,917,446	79,033,617	79,005,998	79,038,244	78,811,830	78,690,787	78,579,820	78,558,824
Power Generation	90,012,499	79,021,969	79,161,961	82,164,352	95,138,647	106,343,220	108,102,895	106,375,289	106,828,436	111,259,208
W. Oregon	**126,739,079**	**130,280,538**	**133,699,857**	**136,222,524**	**138,004,051**	**139,041,756**	**139,460,658**	**140,193,514**	**140,967,812**	**142,073,438**
Residential	37,783,891	38,059,099	38,230,240	38,675,596	39,237,028	39,990,006	40,556,101	41,288,302	42,020,510	42,921,176
Commercial (Sales)	23,647,733	23,638,153	23,509,902	23,487,134	23,491,756	23,548,267	23,436,820	23,436,910	23,478,302	23,641,093
Industrial (Transport & Interruptible)	42,738,021	45,583,286	48,959,715	51,059,794	52,275,267	52,503,483	52,467,737	52,468,302	52,469,000	52,511,169
Power Generation	22,569,435	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000
BC Interior	**43,881,454**	**43,117,955**	**42,392,779**	**41,720,031**	**41,690,788**	**41,880,535**	**42,074,331**	**42,252,090**	**42,424,564**	**42,592,756**
Residential	16,513,779	16,317,455	16,155,895	16,036,468	15,957,482	16,014,958	16,108,534	16,195,967	16,281,412	16,364,687
Commercial (Sales)	10,346,646	10,526,804	10,710,975	10,905,517	11,109,016	11,245,743	11,345,962	11,436,288	11,523,317	11,608,234
Industrial (Transport & Interruptible)	17,021,028	16,273,696	15,525,909	14,778,046	14,624,289	14,619,835	14,619,835	14,619,835	14,619,835	14,619,835
Power Generation	-	-	-	-	-	-	-	-	-	-
E. Washington & N. Idaho	**87,304,620**	**87,573,775**	**88,858,564**	**90,243,726**	**90,941,268**	**91,412,254**	**92,398,887**	**93,809,943**	**94,739,084**	**95,930,544**
Residential	18,775,289	18,747,850	18,812,040	18,935,632	19,120,612	19,086,855	19,100,387	19,222,039	19,382,733	19,581,399
Commercial (Sales)	14,082,568	14,280,409	14,514,125	14,766,281	15,061,962	15,223,065	15,407,571	15,657,934	15,933,055	16,234,452
Industrial (Transport & Interruptible)	28,366,039	28,569,973	28,756,874	28,949,747	29,136,917	29,315,658	29,486,411	29,659,796	29,841,537	30,024,540
Power Generation	26,080,725	25,975,543	26,775,524	27,592,067	27,621,777	27,786,674	28,404,518	29,270,174	29,581,759	30,090,153
E. Oregon & Medford	**88,744,386**	**89,718,819**	**92,087,580**	**94,209,850**	**94,232,404**	**95,398,096**	**96,631,879**	**98,482,002**	**99,422,789**	**100,739,059**
Residential	8,024,712	8,174,065	8,345,071	8,539,071	8,745,796	8,912,548	9,091,556	9,287,149	9,466,212	9,673,832
Commercial (Sales)	5,760,312	5,832,315	5,917,557	5,998,923	6,076,483	6,132,127	6,192,680	6,263,558	6,327,765	6,408,573
Industrial (Transport & Interruptible)	8,749,900	8,886,269	8,918,569	8,934,203	8,950,235	8,966,785	8,982,998	8,997,588	9,013,447	9,029,828
Power Generation	66,209,462	66,826,170	68,906,383	70,737,652	70,459,890	71,386,636	72,364,645	73,933,706	74,615,365	75,626,827
S. Idaho	**59,340,953**	**60,421,926**	**69,678,405**	**72,669,150**	**73,360,854**	**74,024,146**	**74,705,803**	**75,399,246**	**76,104,695**	**76,822,371**
Residential	22,127,715	22,486,047	22,775,065	23,239,613	23,693,231	24,110,348	24,535,044	24,967,460	25,407,740	25,856,027
Commercial (Sales)	11,399,126	11,583,721	11,732,609	11,971,922	12,205,604	12,420,483	12,639,265	12,862,025	13,088,836	13,319,772
Industrial (Transport & Interruptible)	23,336,323	23,763,264	23,906,471	23,944,115	23,948,519	23,979,815	24,017,994	24,056,261	24,094,620	24,133,072
Power Generation	2,477,790	2,588,895	11,264,260	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500
PNW Annual Demand - Base	**821,965,983**	**816,172,925**	**838,953,054**	**853,552,841**	**871,976,035**	**890,370,737**	**898,224,929**	**904,348,418**	**911,311,896**	**923,816,302**
Residential	226,528,879	227,795,451	229,170,361	231,495,980	234,103,432	237,600,420	240,549,384	243,997,186	247,458,682	251,473,089
Commercial (Sales)	146,343,163	147,918,599	149,534,974	151,510,221	153,509,416	155,620,082	157,165,093	158,997,086	160,899,184	163,151,743
Industrial (Transport & Interruptible)	221,741,667	224,758,096	232,920,817	235,346,804	236,463,353	236,958,334	236,963,024	237,099,606	237,253,098	237,539,911
Power Generation	227,352,274	215,700,779	227,326,902	235,199,836	247,899,835	260,191,901	263,547,428	264,254,540	265,700,931	271,651,559

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Region/Sector	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Lower Mainland & Van. Island	**144,248,997**	**143,443,806**	**144,371,718**	**145,462,013**	**146,509,371**	**148,618,972**	**150,829,964**	**152,929,180**	**154,989,258**	**157,008,090**
Residential	53,828,781	53,491,927	53,234,620	53,085,089	53,037,817	53,605,973	54,262,058	54,849,398	55,408,212	55,945,221
Commercial (Sales)	39,631,342	40,463,313	41,307,274	42,135,416	43,161,549	44,575,996	45,966,396	47,324,893	48,675,601	50,007,087
Industrial (Transport & Interruptible)	30,659,321	31,004,274	31,343,961	31,708,928	31,784,639	31,904,134	32,056,473	32,197,708	32,336,100	32,474,295
Power Generation	20,129,553	18,484,291	18,485,863	18,532,579	18,525,365	18,532,869	18,545,037	18,557,180	18,569,345	18,581,486
W. Washington	**310,879,655**	**309,562,078**	**325,134,593**	**329,229,013**	**338,691,276**	**351,558,753**	**360,047,709**	**344,115,972**	**347,603,071**	**366,178,722**
Residential	72,197,678	73,939,608	76,107,988	78,373,922	80,666,620	82,983,486	85,215,652	87,382,870	89,703,488	92,078,235
Commercial (Sales)	56,235,928	56,553,712	62,374,724	64,138,181	64,952,152	65,876,556	66,727,452	67,636,105	68,587,709	69,585,639
Industrial (Transport)	63,079,847	62,979,385	63,050,139	63,147,935	63,240,174	63,324,610	63,270,800	63,357,941	63,478,390	63,565,476
Power Generation	119,366,201	116,089,373	123,601,743	123,568,974	129,832,330	139,374,101	144,833,805	125,739,056	125,833,485	140,949,371
W. Oregon	**128,342,451**	**132,392,307**	**136,374,833**	**139,548,732**	**141,811,924**	**143,268,863**	**144,036,288**	**145,047,698**	**146,058,506**	**147,378,440**
Residential	37,846,601	38,271,495	38,641,824	39,337,226	40,156,245	41,169,573	41,970,424	42,889,448	43,777,100	44,814,961
Commercial (Sales)	23,749,422	23,866,788	23,887,029	24,034,663	24,203,308	24,407,452	24,411,729	24,503,670	24,626,327	24,864,286
Industrial (Transport & Interruptible)	44,176,993	47,254,024	50,845,980	53,176,843	54,452,371	54,691,838	54,654,135	54,654,580	54,655,078	54,699,194
Power Generation	22,569,435	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000
BC Interior	**44,908,016**	**44,691,697**	**44,498,726**	**44,344,138**	**44,645,001**	**45,122,695**	**45,599,003**	**46,057,211**	**46,513,725**	**46,968,634**
Residential	16,567,551	16,399,968	16,266,681	16,175,216	16,124,036	16,210,595	16,330,420	16,442,087	16,550,969	16,656,911
Commercial (Sales)	10,539,509	10,847,312	11,163,406	11,496,671	11,877,066	12,204,407	12,492,305	12,770,397	13,049,478	13,330,009
Industrial (Transport & Interruptible)	17,800,955	17,444,417	17,068,639	16,672,251	16,643,899	16,707,692	16,776,278	16,844,726	16,913,279	16,981,713
Power Generation	-	-	-	-	-	-	-	-	-	-
E. Washington & N. Idaho	**95,163,826**	**100,931,125**	**100,676,002**	**101,122,571**	**102,342,117**	**108,239,312**	**106,396,456**	**108,894,910**	**111,220,384**	**112,710,379**
Residential	19,190,052	19,392,690	19,692,642	20,072,331	20,519,613	20,917,455	21,276,657	21,664,318	22,097,614	22,580,222
Commercial (Sales)	14,545,224	14,928,450	15,344,846	15,784,297	16,271,729	16,724,199	17,147,449	17,595,030	18,072,110	18,585,004
Industrial (Transport & Interruptible)	29,122,918	29,338,152	29,536,624	29,742,089	29,941,857	30,134,028	30,317,697	30,504,348	30,700,548	30,897,267
Power Generation	32,305,632	37,271,833	36,101,891	35,523,854	35,608,917	40,463,630	37,654,653	39,131,214	40,350,112	40,647,886
E. Oregon & Medford	**96,788,825**	**98,763,253**	**99,877,560**	**100,957,992**	**101,189,651**	**103,041,998**	**103,941,177**	**105,089,606**	**106,127,674**	**107,230,232**
Residential	8,157,287	8,415,071	8,701,387	9,020,638	9,359,003	9,696,321	10,032,486	10,369,005	10,689,133	11,044,991
Commercial (Sales)	5,881,773	6,021,753	6,173,692	6,321,756	6,466,973	6,608,832	6,748,880	6,892,085	7,029,629	7,188,121
Industrial (Transport & Interruptible)	9,069,945	9,211,236	9,248,622	9,269,526	9,291,006	9,313,450	9,335,376	9,355,744	9,377,567	9,400,267
Power Generation	73,679,821	75,115,193	75,753,859	76,346,072	76,072,670	77,423,394	77,824,435	78,472,773	79,031,346	79,596,852
S. Idaho	**62,576,566**	**63,734,119**	**73,658,873**	**76,825,025**	**77,738,549**	**78,786,149**	**79,878,144**	**80,993,713**	**82,133,386**	**83,297,705**
Residential	22,328,333	22,902,120	23,315,942	23,870,341	24,463,366	25,007,795	25,564,668	26,134,276	26,716,917	27,312,892
Commercial (Sales)	11,502,474	11,798,062	12,011,243	12,296,842	12,602,340	12,882,803	13,169,678	13,463,112	13,763,260	14,070,277
Industrial (Transport & Interruptible)	26,267,969	26,445,043	27,067,429	27,144,341	27,159,343	27,382,051	27,630,298	27,882,825	28,139,709	28,401,036
Power Generation	2,477,790	2,588,895	11,264,260	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500
PNW Annual Demand - High	**882,908,335**	**893,518,384**	**924,592,305**	**937,489,483**	**952,927,888**	**978,636,742**	**990,728,742**	**983,128,290**	**994,646,004**	**1,020,772,202**
Residential	230,116,283	232,812,879	235,961,083	239,934,763	244,326,700	249,591,198	254,652,366	259,731,403	264,943,433	270,433,433
Commercial (Sales)	162,085,673	164,479,390	172,262,214	176,207,828	179,535,117	183,280,246	186,663,888	190,185,292	193,804,115	197,630,425
Industrial (Transport & Interruptible)	220,177,948	223,676,530	228,161,394	230,861,913	232,513,289	233,457,804	234,041,058	234,797,873	235,600,670	236,419,249
Power Generation	270,528,431	272,549,585	288,207,614	290,484,979	296,552,782	312,307,494	315,371,429	298,413,723	300,297,787	316,289,095

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Region/Sector	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Lower Mainland & Van. Island	**140,455,467**	**137,376,083**	**136,168,208**	**135,124,523**	**134,469,925**	**134,434,576**	**134,487,665**	**134,481,848**	**134,422,860**	**135,500,690**
Residential	53,362,783	52,780,965	52,291,350	51,911,882	51,804,350	52,021,194	52,399,538	52,786,869	53,152,306	53,765,339
Commercial (Sales)	38,064,940	37,893,671	37,737,229	37,552,417	37,708,607	38,095,588	38,388,317	38,623,266	38,834,799	39,454,446
Industrial (Transport & Interruptible)	29,074,372	28,495,285	28,021,882	27,585,682	26,964,328	26,393,422	25,840,841	25,278,025	24,707,857	24,569,458
Power Generation	19,953,371	18,206,162	18,117,747	18,074,542	17,992,641	17,924,373	17,858,969	17,793,688	17,727,898	17,711,447
W. Washington	**264,127,934**	**259,199,524**	**267,139,609**	**262,784,188**	**278,501,914**	**279,086,592**	**290,273,344**	**292,807,885**	**291,047,722**	**298,315,299**
Residential	68,106,192	69,606,785	71,683,186	73,479,549	75,023,505	76,389,294	77,614,618	78,748,625	80,012,883	81,371,175
Commercial (Sales)	52,660,329	52,743,893	58,549,434	60,172,471	60,725,678	61,309,041	61,803,561	62,356,387	62,969,565	63,650,332
Industrial (Transport)	58,342,638	58,924,335	59,393,351	59,634,719	59,691,578	59,635,924	59,555,186	59,549,500	59,588,616	59,669,877
Power Generation	85,018,775	77,924,511	77,513,638	69,497,449	83,061,153	81,752,332	91,299,979	92,153,373	88,476,658	93,623,914
W. Oregon	**125,079,829**	**127,960,855**	**130,621,709**	**132,425,634**	**133,693,632**	**134,333,613**	**134,421,219**	**134,872,304**	**135,448,971**	**136,409,123**
Residential	37,684,406	37,726,577	37,583,813	37,737,930	38,022,088	38,529,378	38,870,544	39,414,367	40,015,854	40,822,351
Commercial (Sales)	23,526,824	23,321,780	22,964,782	22,745,257	22,573,581	22,489,007	22,269,102	22,175,544	22,149,775	22,263,075
Industrial (Transport & Interruptible)	41,299,163	43,912,497	47,073,114	48,942,448	50,097,963	50,315,228	50,281,573	50,282,393	50,283,343	50,323,697
Power Generation	22,569,435	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000	23,000,000
BC Interior	**43,420,480**	**42,239,655**	**41,215,043**	**40,297,916**	**39,790,209**	**39,568,067**	**39,296,073**	**38,980,568**	**38,660,500**	**38,601,964**
Residential	16,460,100	16,235,102	16,045,325	15,898,003	15,791,227	15,819,618	15,886,947	15,950,146	16,012,166	16,072,778
Commercial (Sales)	10,237,833	10,219,427	10,230,462	10,279,616	10,334,633	10,450,758	10,479,731	10,469,052	10,457,592	10,446,148
Industrial (Transport & Interruptible)	16,722,547	15,785,126	14,939,256	14,120,297	13,664,349	13,297,691	12,929,395	12,561,370	12,190,742	12,083,038
Power Generation	-	-	-	-	-	-	-	-	-	-
E. Washington & N. Idaho	**84,268,034**	**83,859,173**	**84,412,089**	**85,789,386**	**86,558,797**	**87,026,771**	**87,341,833**	**87,889,813**	**87,048,954**	**88,139,231**
Residential	18,766,490	18,243,055	17,510,016	17,197,035	17,060,476	16,952,584	16,814,807	16,698,614	16,615,360	16,560,323
Commercial (Sales)	13,972,370	13,835,619	13,568,949	13,540,787	13,622,200	13,713,757	13,781,332	13,863,900	13,967,216	14,090,057
Industrial (Transport & Interruptible)	27,624,534	27,818,668	27,994,729	28,177,776	28,354,663	28,524,170	28,685,916	28,849,302	29,020,448	29,194,754
Power Generation	23,904,640	23,961,832	25,338,395	26,873,787	27,521,458	27,836,260	28,059,779	28,477,996	27,445,930	28,294,098
E. Oregon & Medford	**82,623,843**	**83,771,374**	**87,425,890**	**91,050,425**	**92,193,146**	**93,329,646**	**93,734,903**	**94,625,335**	**92,562,324**	**94,396,578**
Residential	7,875,609	7,876,738	7,827,453	7,870,465	7,949,166	8,039,496	8,124,833	8,208,969	8,279,879	8,373,596
Commercial (Sales)	5,644,303	5,630,337	5,597,904	5,603,727	5,620,607	5,642,313	5,660,458	5,679,150	5,691,730	5,717,871
Industrial (Transport & Interruptible)	8,431,316	8,563,093	8,590,567	8,602,415	8,614,709	8,627,898	8,640,329	8,651,215	8,663,192	8,675,627
Power Generation	60,672,616	61,701,207	65,409,967	68,973,818	70,008,664	71,019,940	71,309,283	72,086,000	69,927,524	71,629,485
S. Idaho	**55,286,419**	**55,880,677**	**65,201,978**	**68,100,681**	**68,710,008**	**69,332,015**	**69,986,001**	**70,649,267**	**71,321,959**	**72,004,216**
Residential	22,014,941	22,270,221	22,511,384	22,881,471	23,268,930	23,612,281	23,960,921	24,314,929	24,674,392	25,039,399
Commercial (Sales)	11,341,030	11,472,538	11,596,774	11,787,424	11,987,025	12,163,903	12,343,505	12,525,872	12,711,051	12,899,084
Industrial (Transport & Interruptible)	19,452,659	19,549,023	19,829,560	19,918,286	19,940,553	20,042,331	20,168,075	20,294,966	20,423,016	20,552,233
Power Generation	2,477,790	2,588,895	11,264,260	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500	13,513,500
PNW Annual Demand - Low	**795,262,006**	**790,287,341**	**812,184,526**	**815,572,752**	**833,917,631**	**837,111,281**	**849,541,038**	**854,307,020**	**850,513,291**	**863,367,101**
Residential	224,270,520	224,739,443	225,452,527	226,976,334	228,919,741	231,363,846	233,672,208	236,122,519	238,762,840	242,004,961
Commercial (Sales)	155,447,629	155,117,265	160,245,533	161,681,700	162,572,330	163,864,367	164,726,005	165,693,172	166,781,727	168,521,012
Industrial (Transport & Interruptible)	200,947,229	203,048,027	205,842,459	206,981,622	207,328,144	206,836,664	206,101,315	205,466,771	204,877,214	205,068,683
Power Generation	214,596,627	207,382,606	220,644,007	219,933,096	235,097,415	235,046,405	245,041,510	247,024,558	240,091,509	247,772,445

Northwest Gas Association

2011 Gas Outlook

I-5 Corridor Peak Day Demand/Supply Balance (Dth/day) - Base Case

DEMAND (Region/Sector)	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Lower Main & Van. Island (I-5 Corridor)	**1,455,709**	**1,464,839**	**1,473,756**	**1,482,752**	**1,492,049**	**1,501,477**	**1,511,003**	**1,519,168**	**1,526,830**	**1,534,305**
Residential	535,668	540,542	545,305	550,112	555,077	560,116	565,209	569,568	573,653	577,639
Commercial (Firm Sales & Transport)	457,506	461,614	465,624	469,669	473,850	478,088	482,369	486,043	489,493	492,859
Industrial (Firm Sales & Transport)	200,937	201,085	201,229	201,374	201,524	201,674	201,826	201,959	202,086	202,209
Power Generation	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598
W. Washington (I-5 Corridor)	**1,866,096**	**1,878,076**	**1,899,819**	**1,944,453**	**2,065,135**	**2,090,048**	**2,113,369**	**2,136,176**	**2,159,203**	**2,182,925**
Residential	799,268	808,176	822,986	841,469	858,972	875,810	892,603	909,296	926,062	943,051
Commercial (Firm Sales & Transport)	338,227	341,053	347,582	356,479	365,686	374,091	381,066	387,653	394,371	401,521
Industrial (Firm Sales & Transport)	270,247	270,492	270,897	288,150	287,805	287,475	287,029	286,556	286,098	285,683
Power Generation	458,355	458,355	458,355	458,355	552,671	552,671	552,671	552,671	552,671	552,671
W. Oregon (I-5 Corridor)	**999,626**	**997,372**	**1,000,433**	**1,005,275**	**1,012,880**	**1,020,111**	**1,029,837**	**1,040,349**	**1,051,814**	**1,063,717**
Residential	574,931	573,984	576,808	581,517	588,251	595,514	605,235	615,250	625,657	635,969
Commercial (Firm Sales & Transport)	291,095	288,886	287,492	286,741	286,719	286,447	286,491	287,005	288,081	289,668
Industrial (Firm Sales & Transport)	46,600	47,502	49,134	50,018	50,909	51,150	51,111	51,094	51,076	51,079
Power Generation	87,000	87,000	87,000	87,000	87,000	87,000	87,000	87,000	87,000	87,000
Total Peak (Design) Day Demand	4,321,431	4,340,287	4,374,009	4,432,481	4,570,063	4,611,635	4,654,208	4,695,693	4,737,846	4,780,948
SUPPLY										
Pipeline Interconnects	**2,304,060**	**2,304,061**	**2,304,062**	**2,304,063**	**2,304,064**	**2,304,065**	**2,304,066**	**2,304,067**	**2,304,068**	**2,304,069**
Max north flow on NWP @ Gorge	**551,000**	**551,001**	**551,002**	**551,003**	**551,004**	**551,005**	**551,006**	**551,007**	**551,008**	**551,009**
Huntingdon/Sumas	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**
T-South to Huntingdon	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060
Kingsvale to Huntingdon (via Southern Crossing)	-	-	-	-	-	-	-	-	-	-
Underground Storage	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**
Jackson Prairie (NWP from JP)	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000
(includes deliverability expansion of 312,000 Dth/day in service 2008-09)										
Mist Storage (NWN)	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000
(includes deliverability expansion of 51,310 Dth/day in service 2007-08)										
Peak LNG	**350,715**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**
Newport/Portland LNG (NWN)	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000
Gig Harbor Satellite LNG (PSE)	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
Swarr Stn Propane (PSE)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Tilbury LNG (TGI)	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465
Vancouver Island LNG (permitted, provisional)	-	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042
Total Supply	**4,380,775**	**4,533,818**	**4,533,819**	**4,533,820**	**4,533,821**	**4,533,822**	**4,533,823**	**4,533,824**	**4,533,825**	**4,533,826**
Supply Surplus/**(Shortfall)**	59,344	193,531	159,810	101,339	(36,242)	(77,813)	(120,385)	(161,869)	(204,021)	(247,122)

Northwest Gas Association
2011 Gas Outlook
I-5 Corridor Peak Day Demand/Supply Balance (Dth/day) - High Case

DEMAND (Region/Sector)	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Lower Main & Van. Island (I-5 Corridor)	**1,468,521**	**1,479,824**	**1,490,856**	**1,501,931**	**1,513,441**	**1,525,080**	**1,536,829**	**1,546,853**	**1,556,302**	**1,565,546**
Residential	542,340	548,365	554,248	560,156	566,294	572,504	578,775	584,118	589,149	594,071
Commercial (Firm Sales & Transport)	462,593	467,684	472,651	477,636	482,818	488,056	493,343	497,857	502,117	506,283
Industrial (Firm Sales & Transport)	201,990	202,178	202,360	202,541	202,731	202,922	203,113	203,280	203,439	203,594
Power Generation	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598
W. Washington (I-5 Corridor)	**1,941,331**	**1,965,674**	**1,996,974**	**2,048,626**	**2,177,767**	**2,212,587**	**2,294,779**	**2,328,738**	**2,364,186**	**2,401,033**
Residential	828,663	847,370	870,655	895,488	920,620	945,665	970,927	994,961	1,019,943	1,045,744
Commercial (Firm Sales & Transport)	392,291	397,823	405,674	432,393	441,946	451,484	461,118	470,895	481,038	491,600
Industrial (Firm Sales & Transport)	262,022	262,126	262,290	262,390	262,530	262,767	262,905	263,053	263,376	263,860
Power Generation	458,355	458,355	458,355	458,355	552,671	552,671	599,829	599,829	599,829	599,829
W. Oregon (I-5 Corridor)	**1,007,651**	**1,009,199**	**1,017,459**	**1,028,387**	**1,042,241**	**1,055,380**	**1,070,097**	**1,084,650**	**1,099,628**	**1,114,475**
Residential	575,920	576,995	582,898	591,385	602,025	613,228	626,465	639,308	652,161	664,496
Commercial (Firm Sales & Transport)	292,063	291,441	291,930	293,354	295,427	297,109	298,629	300,357	302,500	305,009
Industrial (Firm Sales & Transport)	52,668	53,763	55,632	56,649	57,790	58,043	58,002	57,985	57,966	57,970
Power Generation	87,000	87,000	87,000	87,000	87,000	87,000	87,000	87,000	87,000	87,000
Total Peak (Design) Day Demand	**4,417,503**	**4,454,697**	**4,505,290**	**4,578,944**	**4,733,449**	**4,793,047**	**4,901,704**	**4,960,240**	**5,020,116**	**5,081,054**

SUPPLY	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Pipeline Interconnects	**2,304,060**	**2,304,061**	**2,304,062**	**2,304,063**	**2,304,064**	**2,304,065**	**2,304,066**	**2,304,067**	**2,304,068**	**2,304,069**
Max north flow on NWP @ Gorge	**551,000**	**551,001**	**551,002**	**551,003**	**551,004**	**551,005**	**551,006**	**551,007**	**551,008**	**551,009**
Huntingdon/Sumas	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**
T-South to Huntingdon	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060
Kingsvale to Huntingdon	0	0	0	0	0	0	0	0	0	0
(via Southern Crossing)										
Underground Storage	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**
Jackson Prairie (NWP from JP)	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000
(includes deliverability expansion of 312,000 Dth/day in service 2008-09)										
Mist Storage (NWN)	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000
(includes deliverability expansion of 51,310 Dth/day in service 2007-08)										
Peak LNG	**350,715**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**
Newport/Portland LNG (NWN)	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000
Gig Harbor Satellite LNG (PSE)	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
Swarr Stn Propane (PSE)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Tilbury LNG (TGI)	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465
Vancouver Island LNG (permitted, provisional)	-	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042
Total Supply	**4,380,775**	**4,533,818**	**4,533,819**	**4,533,820**	**4,533,821**	**4,533,822**	**4,533,823**	**4,533,824**	**4,533,825**	**4,533,826**
Supply Surplus/**(Shortfall)**	**(36,728)**	**79,121**	**28,529**	**(45,124)**	**(199,628)**	**(259,225)**	**(367,881)**	**(426,416)**	**(486,291)**	**(547,228)**

Northwest Gas Association
2011 Gas Outlook
I-5 Corridor Peak Day Demand/Supply Balance (Dth/day) - Low Case

DEMAND (Region/Sector)	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Lower Main & Van. Island (I-5 Corridor)	**1,453,644**	**1,460,661**	**1,467,523**	**1,474,393**	**1,481,523**	**1,488,760**	**1,496,069**	**1,502,318**	**1,508,174**	**1,513,882**
Residential	534,567	538,315	541,982	545,654	549,465	553,335	557,244	560,581	563,705	566,750
Commercial (Firm Sales & Transport)	456,576	459,732	462,817	465,905	469,110	472,363	475,647	478,457	481,093	483,662
Industrial (Firm Sales & Transport)	200,902	201,016	201,126	201,235	201,350	201,465	201,581	201,682	201,778	201,871
Power Generation	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598	261,598
W. Washington (I-5 Corridor)	**1,803,425**	**1,820,818**	**1,850,341**	**1,897,453**	**2,018,959**	**2,043,801**	**2,067,592**	**2,090,250**	**2,113,922**	**2,139,641**
Residential	783,653	799,804	824,554	847,202	866,897	884,249	900,759	916,069	932,049	949,394
Commercial (Firm Sales & Transport)	379,502	381,346	386,483	411,205	418,892	426,468	433,948	441,498	449,357	457,754
Industrial (Firm Sales & Transport)	232,770	232,167	231,803	231,545	231,353	231,267	231,068	230,866	230,700	230,676
Power Generation	407,501	407,501	407,501	407,501	501,817	501,817	501,817	501,817	501,817	501,817
W. Oregon (I-5 Corridor)	**954,909**	**945,988**	**940,857**	**938,555**	**939,596**	**941,324**	**945,842**	**952,146**	**960,581**	**970,517**
Residential	573,598	568,919	566,833	567,093	569,725	573,296	579,336	586,415	594,710	603,683
Commercial (Firm Sales & Transport)	289,966	285,015	280,575	277,263	275,029	272,958	271,473	270,714	270,872	271,831
Industrial (Firm Sales & Transport)	41,345	42,054	43,448	44,198	44,841	45,070	45,033	45,017	45,000	45,003
Power Generation	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Total Peak (Design) Day Demand	**4,211,978**	**4,227,467**	**4,258,721**	**4,310,401**	**4,440,078**	**4,473,885**	**4,509,503**	**4,544,714**	**4,582,677**	**4,624,040**
SUPPLY										
Pipeline Interconnects	**2,304,060**	**2,304,061**	**2,304,062**	**2,304,063**	**2,304,064**	**2,304,065**	**2,304,066**	**2,304,067**	**2,304,068**	**2,304,069**
Max north flow on NWP @ Gorge	**551,000**	**551,001**	**551,002**	**551,003**	**551,004**	**551,005**	**551,006**	**551,007**	**551,008**	**551,009**
Huntingdon/Sumas	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**	**1,753,060**
T-South to Huntingdon	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060	1,753,060
Kingsvale to Huntingdon (via Southern Crossing)	-	-	-	-	-	-	-	-	-	-
Underground Storage	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**	**1,726,000**
Jackson Prairie (NWP from JP)	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000	1,196,000
(includes deliverability expansion of 312,000 Dth/day in service 2008-09)										
Mist Storage (NWN)	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000	530,000
(includes deliverability expansion of 51,310 Dth/day in service 2007-08)										
Peak LNG	**350,715**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**	**503,757**
Newport/Portland LNG (NWN)	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000	180,000
Gig Harbor Satellite LNG (PSE)	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250	5,250
Swarr Stn Propane (PSE)	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000
Tilbury LNG (TGI)	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465	155,465
Vancouver Island LNG (permitted, provisional)	-	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042	153,042
Total Supply	**4,380,775**	**4,533,818**	**4,533,819**	**4,533,820**	**4,533,821**	**4,533,822**	**4,533,823**	**4,533,824**	**4,533,825**	**4,533,826**
Supply Surplus/**(Shortfall)**	168,797	306,351	275,098	223,419	93,743	59,937	24,320	(10,890)	(48,852)	(90,214)

Northwest Gas Association
Gas Outlook 2020
NON I-5 Corridor Peak Day Demand/Supply Balance (Dth/day) - Base Case

DEMAND (Region/Sector)	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Interior	**442,655**	**446,945**	**451,246**	**455,681**	**460,114**	**464,690**	**469,385**	**473,156**	**476,685**	**480,133**
Residential	200,686	203,318	205,955	208,675	211,393	214,199	217,079	219,391	221,555	223,670
Commercial (Sales)	121,565	123,159	124,757	126,404	128,051	129,751	131,495	132,896	134,207	135,488
Industrial (Transport & Interruptible)	120,403	120,468	120,534	120,602	120,670	120,740	120,811	120,869	120,923	120,976
Power Generation	-	-	-	-	-	-	-	-	-	-
E. Washington & N. Idaho	**706,813**	**711,232**	**716,784**	**722,789**	**728,715**	**728,874**	**734,660**	**740,652**	**746,700**	**753,065**
Residential	199,570	201,061	203,268	205,638	207,828	206,385	208,568	210,829	213,077	215,494
Commercial (Sales)	152,597	155,682	159,339	163,166	166,992	168,621	172,287	176,099	179,946	183,894
Industrial (Transport & Interruptible)	96,003	95,845	95,534	95,343	95,253	95,225	95,163	95,081	95,034	95,034
Power Generation	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643
E. Oregon & Medford	**504,408**	**505,817**	**509,136**	**512,802**	**516,422**	**518,931**	**522,627**	**526,288**	**529,920**	**533,519**
Residential	87,610	88,366	90,572	92,993	95,375	97,035	99,586	102,077	104,494	106,858
Commercial (Sales)	62,407	63,146	64,423	65,774	67,067	67,933	69,116	70,336	71,587	72,824
Industrial (Transport & Interruptible)	48,953	48,867	48,703	48,597	48,542	48,525	48,487	48,437	48,401	48,398
Power Generation	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438
S. Idaho	**518,697**	**523,908**	**530,515**	**556,870**	**565,031**	**573,043**	**581,221**	**589,568**	**598,087**	**606,782**
Residential	237,594	241,032	245,393	250,877	256,263	261,551	266,949	272,458	278,080	283,819
Commercial (Sales)	122,397	124,168	126,415	129,240	132,014	134,739	137,519	140,357	143,254	146,210
Industrial (Transport & Interruptible)	92,684	92,684	92,684	92,684	92,684	92,684	92,684	92,684	92,684	92,684
Power Generation	66,023	66,023	66,023	84,069	84,069	84,069	84,069	84,069	84,069	84,069
Total Peak (Design) Day Demand	**2,172,573**	**2,187,902**	**2,207,680**	**2,248,142**	**2,270,282**	**2,285,538**	**2,307,893**	**2,329,664**	**2,351,393**	**2,373,499**
SUPPLY										
Pipeline Interconnects	**1,599,146**	**1,599,145**	**1,599,144**	**1,599,143**	**1,599,142**	**1,599,141**	**1,599,140**	**1,599,139**	**1,599,138**	**1,599,137**
NWP- Stanfield (NWP from GTN)	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000
NWP - Starr Rd (NWP from GTN)	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
NWP - Palouse (NWP from GTN)	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
GTN - Direct Connects	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000
Kingsgate/Yahk - BC Interior from TCPL	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941
Westcoast to BC Interior	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705
Westcoast to Kingsvale	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500
NWP - Kemmerer (NWP north from NWP south)	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000
NWP - Kemmerer to Reno	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)
Peak LNG	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**
Plymouth (NWP from LNG)	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300
Nampa LNG (IGC)	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Total Supply	**1,964,446**	**1,964,445**	**1,964,444**	**1,964,443**	**1,964,442**	**1,964,441**	**1,964,440**	**1,964,439**	**1,964,438**	**1,964,437**
Supply Surplus/**(Shortfall)**	(208,127)	(223,457)	(243,236)	(283,699)	(305,840)	(321,097)	(343,454)	(365,225)	(386,955)	(409,062)

A9. NON I-5 CORRIDOR PEAK DAY SUPPLY/DEMAND BALANCE - HIGH CASE

Northwest Gas Association
Gas Outlook 2020
NON I-5 Corridor Peak Day Demand/Supply Balance (Dth/day) - High Case

DEMAND (Region/Sector)	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18
BC Interior	**443,649**	**449,009**	**454,369**	**459,894**	**465,414**	**471,140**	**476,995**	**481,681**	**486,068**	**490,343**
Residential	201,296	204,583	207,870	211,258	214,643	218,155	221,745	224,619	227,310	229,931
Commercial (Sales)	121,935	123,926	125,917	127,969	130,020	132,147	134,322	136,063	137,692	139,280
Industrial (Transport & Interruptible)	120,418	120,500	120,582	120,666	120,751	120,838	120,928	120,999	121,066	121,132
Power Generation	-	-	-	-	-	-	-	-	-	-
E. Washington & N. Idaho	**725,812**	**733,983**	**743,465**	**753,363**	**763,119**	**771,394**	**781,066**	**791,001**	**801,050**	**811,540**
Residential	205,910	209,700	214,330	219,133	223,730	227,392	232,029	236,773	241,523	246,526
Commercial (Sales)	159,483	164,013	169,166	174,442	179,690	184,317	189,413	194,689	200,025	205,510
Industrial (Transport & Interruptible)	101,776	101,628	101,326	101,145	101,057	101,043	100,981	100,897	100,859	100,861
Power Generation	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643
E. Oregon & Medford	**509,695**	**511,754**	**516,102**	**520,693**	**525,150**	**529,421**	**533,968**	**538,402**	**542,838**	**547,183**
Residential	89,077	90,218	93,132	96,243	99,280	102,233	105,471	108,599	111,653	114,614
Commercial (Sales)	63,876	64,879	66,473	68,060	69,535	70,873	72,222	73,581	75,000	76,388
Industrial (Transport & Interruptible)	51,304	51,220	51,060	50,953	50,898	50,878	50,837	50,785	50,747	50,743
Power Generation	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438
S. Idaho	**523,447**	**531,175**	**539,904**	**567,146**	**577,175**	**586,955**	**596,976**	**607,243**	**617,762**	**628,540**
Residential	238,930	244,031	249,792	255,861	262,480	268,935	275,549	282,325	289,267	296,381
Commercial (Sales)	123,085	125,713	128,681	131,807	135,217	138,542	141,949	145,440	149,017	152,681
Industrial (Transport & Interruptible)	95,409	95,409	95,409	95,409	95,409	95,409	95,409	95,409	95,409	95,409
Power Generation	66,023	66,023	66,023	84,069	84,069	84,069	84,069	84,069	84,069	84,069
Total Peak (Design) Day Demand	**2,202,603**	**2,225,921**	**2,253,841**	**2,301,095**	**2,330,859**	**2,358,910**	**2,389,005**	**2,418,328**	**2,447,718**	**2,477,606**
SUPPLY										
Pipeline Interconnects	**1,599,146**	**1,599,145**	**1,599,144**	**1,599,143**	**1,599,142**	**1,599,141**	**1,599,140**	**1,599,139**	**1,599,138**	**1,599,137**
NWP- Stanfield (NWP from GTN)	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000
NWP - Starr Rd (NWP from GTN)	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
NWP - Palouse (NWP from GTN)	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
GTN - Direct Connects	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000
Kingsgate/Yahk - BC Interior from TCPL	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941
Westcoast to BC Interior	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705
Westcoast to Kingsvale	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500
NWP - Kemmerer (NWP north from NWP south)	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000
NWP - Kemmerer to Reno	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)
Peak LNG	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**
Plymouth (NWP from LNG)	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300
Nampa LNG (IGC)	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Total Supply	**1,964,446**	**1,964,445**	**1,964,444**	**1,964,443**	**1,964,442**	**1,964,441**	**1,964,440**	**1,964,439**	**1,964,438**	**1,964,437**
Supply Surplus/**(Shortfall)**	(238,158)	(261,477)	(289,397)	(336,653)	(366,417)	(394,469)	(424,565)	(453,889)	(483,280)	(513,169)

Northwest Gas Association
Gas Outlook 2020
NON I-5 Corridor Peak Day Demand/Supply Balance (Dth/day) - Low Case

DEMAND (Region/Sector)	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BC Interior	**441,772**	**445,145**	**448,506**	**451,937**	**455,368**	**458,912**	**462,565**	**465,558**	**468,344**	**471,068**
Residential	200,145	202,213	204,274	206,379	208,483	210,656	212,896	214,731	216,440	218,111
Commercial (Sales)	121,237	122,490	123,739	125,014	126,288	127,604	128,961	130,073	131,108	132,120
Industrial (Transport & Interruptible)	120,389	120,441	120,492	120,545	120,597	120,651	120,707	120,753	120,795	120,837
Power Generation	-	-	-	-	-	-	-	-	-	-
E. Washington & N. Idaho	**704,178**	**693,185**	**681,725**	**682,427**	**684,385**	**683,428**	**684,739**	**686,557**	**687,871**	**689,915**
Residential	201,034	192,944	184,563	183,642	183,368	181,229	180,616	180,278	179,587	179,319
Commercial (Sales)	152,677	149,967	147,241	149,066	151,398	152,605	154,596	156,840	158,902	161,213
Industrial (Transport & Interruptible)	91,824	91,631	91,277	91,075	90,975	90,950	90,884	90,796	90,739	90,740
Power Generation	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643	258,643
E. Oregon & Medford	**501,570**	**499,927**	**499,545**	**501,270**	**504,020**	**506,382**	**509,135**	**511,980**	**514,698**	**517,520**
Residential	87,351	86,132	85,853	86,895	88,580	90,012	91,800	93,617	95,307	97,041
Commercial (Sales)	62,070	61,736	61,803	62,593	63,712	64,657	65,658	66,733	67,796	68,886
Industrial (Transport & Interruptible)	46,712	46,621	46,451	46,344	46,290	46,275	46,239	46,192	46,157	46,155
Power Generation	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438	305,438
S. Idaho	**485,885**	**491,380**	**496,403**	**506,722**	**513,756**	**520,225**	**526,804**	**533,494**	**540,297**	**547,215**
Residential	236,827	240,381	243,696	248,125	252,768	257,037	261,379	265,795	270,285	274,850
Commercial (Sales)	122,002	123,833	125,541	127,822	130,214	132,413	134,650	136,924	139,237	141,590
Industrial (Transport & Interruptible)	87,439	87,549	87,549	87,549	87,549	87,549	87,549	87,549	87,549	87,549
Power Generation	39,617	39,617	39,617	43,226	43,226	43,226	43,226	43,226	43,226	43,226
Total Peak (Design) Day Demand	**2,133,405**	**2,129,637**	**2,126,178**	**2,142,356**	**2,157,529**	**2,168,946**	**2,183,242**	**2,197,589**	**2,211,210**	**2,225,719**
SUPPLY										
Pipeline Interconnects	**1,599,146**	**1,599,145**	**1,599,144**	**1,599,143**	**1,599,142**	**1,599,141**	**1,599,140**	**1,599,139**	**1,599,138**	**1,599,137**
NWP- Stanfield (NWP from GTN)	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000	638,000
NWP - Starr Rd (NWP from GTN)	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000	165,000
NWP - Palouse (NWP from GTN)	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000
GTN - Direct Connects	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000	415,000
Kingsgate/Yahk - BC Interior from TCPL	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941	186,941
Westcoast to BC Interior	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705	178,705
Westcoast to Kingsvale	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500	51,500
NWP - Kemmerer (NWP north from NWP south)	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000	655,000
NWP - Kemmerer to Reno	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)	(160,000)
Peak LNG	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**	**365,300**
Plymouth (NWP from LNG)	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300	305,300
Nampa LNG (IGC)	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000
Total Supply	**1,964,446**	**1,964,445**	**1,964,444**	**1,964,443**	**1,964,442**	**1,964,441**	**1,964,440**	**1,964,439**	**1,964,438**	**1,964,437**
Supply Surplus/**(Shortfall)**	(168,959)	(165,192)	(161,734)	(177,913)	(193,088)	(204,505)	(218,802)	(233,150)	(246,772)	(261,282)