
2004
California
Gas
Report

**LOS ANGELES DEPARTMENT
OF WATER AND POWER**

LOS ANGELES DEPARTMENT OF WATER AND POWER

The Los Angeles Department of Water and Power (LADWP), the nation's largest municipally owned utility with a service territory of 465 square miles, supplies water and electricity to approximately 3.8 million residents of the nation's second largest city. The array of generation resources is composed of hydro, coal, natural gas, nuclear, and renewables. Recognizing the need to minimize the impact of electric generation on basin air quality, LADWP gradually achieved the goal of 100-percent gas utilization. Currently, the LADWP basin gas generation facilities provide approximately 24 percent of annual generation needs, burning 54.3 Bcf in calendar year 2003.

Since 2000, the LADWP has invested about \$1 billion in the modernization and upgrading of its generation portfolio, with another \$1.4 billion earmarked for projects in 2003 to 2008. For its in-basin natural gas generating stations, it is in the midst of a major 10-year repowering program to increase reliability and efficiency.

Within the last 6 years, LADWP has seen a gas usage range from a high of 68.1 Bcf to a low consumption of 29.8 Bcf. The abundance of coal-fired generation and other economy energy purchase options have combined to limit basin gas-fired generation. Oil burning has been eliminated and ultra-low sulfur distillate for gas turbines serves as emergency backup.

LADWP's natural gas demand forecast is presented in the following tables for 2004 through 2025 and was developed in March 2004. It was based on the preliminary Fuel and Purchased Power Budget for native load only. The forecast assumes energy is also obtained from outside purchases, Renewable Energy, Distributed Generation, DSM, and any LADWP programs.

LADWP holds firm capacity rights on three interstate pipelines. The value of which has decreased as a result of a proliferation of gas supply from outside the state of California. This capacity also provides LADWP with flexibility in establishing its supply portfolio and provides a measure of security.

Since LADWP is entitled to approximately 25 percent of the electric transmission into California, it intends to remain active in governmental and regulatory proceedings affecting both gas and electric issues.

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***LOS ANGELES DEPARTMENT OF
WATER AND POWER – TABULAR DATA***

LOS ANGELES DEPARTMENT OF WATER AND POWER

**Los Angeles Department of Water and Power
ANNUAL GAS SUPPLY AND SENDOUT
RECORDED YEARS 1999-2003
MMCF/DAY**

LINE	GAS SUPPLY AVAILABLE	1999	2000	2001	2002	2003	LINE
1	California Source Gas						1
	Out-of-State Gas						
2	California Offshore - POPCO/PIOC						2
3	El Paso Natural Gas Co.						3
4	Transwestern Pipeline Co.						4
5	Kern /Mojave						5
6	PGT/PG&E						6
7	Other						7
8	TOTAL Out-of-State Gas						8
9	Subtotal						9
10	Underground Storage Withdrawal						10
11	TOTAL GAS SUPPLY AVAILABLE						11
	<u>GAS SUPPLY TAKEN</u>						
12	California Source Gas	0	0	0	0	0	12
	Out-of-State Gas						
13	Pacific Interstate Companies	0	0	0	0	0	13
14	Other Out-of-State	148	186	157	116	149	14
15	Total Out-of-State Gas	148	186	157	116	149	15
16	Subtotal	148	186	157	116	149	
17	Underground Storage Withdrawal	0	0	0	0	0	17
18	TOTAL GAS SUPPLY TAKEN	148	186	157	116	149	18

LOS ANGELES DEPARTMENT OF WATER AND POWER

Los Angeles Department of Water and Power ANNUAL GAS SUPPLY AND SENDOUT RECORDED YEARS 1999-2003 MMCF/DAY

LINE	ACTUAL DELIVERIES BY END-USE		1999	2000	2001	2002	2003	LINE
1	CORE	Residential	0	0	0	0	0	1
2	CORE/NONCORE	Commercial	0	0	0	0	0	2
3	CORE/NONCORE	Industrial	0	0	0	0	0	3
4		Subtotal	0	0	0	0	0	4
5	NONCORE	Non-EOR Cogeneration	0	0	0	0	0	5
6		EOR Cogen. & Steaming	0	0	0	0	0	6
7		Electric Utilities	148	186	157	116	149	7
8		Subtotal	148	186	157	116	149	8
9	WHOLESALE	Residential	0	0	0	0	0	9
10		Com. & Ind., others	0	0	0	0	0	10
11		Electric Utilities	0	0	0	0	0	11
12		Subtotal WHOLESALE	0	0	0	0	0	12
13		Co. Use & LUAF	0	0	0	0	0	13
14		Subtotal-END USE	148	186	157	116	149	14
15		Storage Injection	0	0	0	0	0	15
16	SYSTEM TOTAL THROUGHPUT		148	186	157	116	149	16
<u>ACTUAL TRANSPORTATION AND EXCHANGE</u>								
17	CORE	All End Uses	0	0	0	0	0	17
18	NONCORE	Commercial/Industrial	0	0	0	0	0	18
19		Non-EOR Cogeneration	0	0	0	0	0	19
20		EOR Cogen. & Steaming	0	0	0	0	0	20
21		Electric Utilities	148	186	157	116	149	21
22		Subtotal-RETAIL	148	186	157	116	149	22
23	WHOLESALE	All End Uses	0	0	0	0	0	23
24	TOTAL TRANSPORTATION & EXCHANGE		148	186	157	116	149	24
<u>CURTAILMENT (RETAIL & WHOLESALE)</u>								
25		Core	0	0	0	0	0	25
26		Noncore	0	0	0	0	0	26
27		TOTAL-Curtailment	0	0	0	0	0	27
28	REFUSAL		0	0	0	0	0	28

LOS ANGELES DEPARTMENT OF WATER AND POWER

ANNUAL GAS SUPPLY AND REQUIREMENTS FORECAST YEARS 2004 THRU 2008 MMCF/DAY AVERAGE TEMPERATURE YEAR

LINE	GAS SUPPLY AVAILABLE		2004	2005	2006	2007	2008	LINE
1	California Source Gas		0	0	0	0	0	1
	Out-of-State Gas							
2	California Offshore - POPCO/PIOC		0	0	0	0	0	2
3	El Paso Natural Gas Co.		36	36	36	0	0	3
4	Transwestern Pipeline Co.		0	0	0	0	0	4
5	Kern /Mojave		196	196	196	146	146	5
6	PGT/PG&E		0	0	0	0	0	6
7	Other		0	0	0	0	0	7
8	TOTAL Out-of-State Gas		232	232	232	146	146	8
9	Subtotal		232	232	232	146	146	9
10	Underground Storage Withdrawal		0	0	0	0	0	10
11	TOTAL GAS SUPPLY AVAILABLE		232	232	232	146	146	11
	<u>GAS SUPPLY TAKEN</u>							
12	California Source Gas		0	0	0	0	0	12
	Out-of-State Gas							
13	Pacific Interstate Companies		0	0	0	0	0	13
14	Other Out-of-State		107	119	139	144	151	14
15	Total Out-of-State Gas		107	119	139	144	151	15
16	Subtotal		107	119	139	144	151	
17	Underground Storage Withdrawal		0	0	0	0	0	17
18	TOTAL GAS SUPPLY TAKEN		107	119	139	144	151	18
	<u>REQUIREMENTS FORECAST BY END-USE</u>							
1	CORE	Residential	0	0	0	0	0	1
2	CORE/NONCORE	Commercial	0	0	0	0	0	2
3	CORE/NONCORE	Industrial	0	0	0	0	0	3
4		Subtotal	0	0	0	0	0	4
5	NONCORE	Non-EOR Cogeneration	0	0	0	0	0	5
6		EOR Cogen. & Steaming	0	0	0	0	0	6
7		Electric Utilities	107	119	139	144	151	7
8		Subtotal	107	119	139	144	151	8
9	WHOLESALE	Residential	0	0	0	0	0	9
10		Com. & Ind., others	0	0	0	0	0	10
11		Electric Utilities	0	0	0	0	0	11
12		Subtotal WHOLESale	0	0	0	0	0	12
13		Co. Use & LUAF	0	0	0	0	0	13
14		Subtotal-END USE	107	119	139	144	151	14
15		Storage Injection	0	0	0	0	0	15
16	SYSTEM TOTAL THROUGHPUT		107	119	139	144	151	16
	<u>TRANSPORTATION AND EXCHANGE</u>							
17	CORE	All End Uses	0	0	0	0	0	17
18	NONCORE	Commercial/Industrial	0	0	0	0	0	18
19		Non-EOR Cogeneration	0	0	0	0	0	19
20		EOR Cogen. & Steaming	0	0	0	0	0	20
21		Electric Utilities	107	119	139	144	151	21
22		Subtotal-RETAIL	107	119	139	144	151	22
23	WHOLESALE	All End Uses	0	0	0	0	0	23
24	TOTAL TRANSPORTATION & EXCHANGE		107	119	139	144	151	24
	<u>CURTAILMENT (RETAIL & WHOLESALE)</u>							
25		Core	0	0	0	0	0	25
26		Noncore	0	0	0	0	0	26
27		TOTAL-Curtailment	0	0	0	0	0	27
28	REFUSAL		0	0	0	0	0	28

LOS ANGELES DEPARTMENT OF WATER AND POWER

ANNUAL GAS SUPPLY AND REQUIREMENTS FORECAST YEARS 2010-2025

AVERAGE TEMPERATURE YEAR

GAS SUPPLY AVAILABLE		2010	2013	2016	2020	2025	LINE
California Source Gas		0	0	0	0	0	1
Out-of-State Gas							
	California Offshore - POPCO/PIOC	0	0	0	0	0	2
	El Paso Natural Gas Co.	0	0	0	0	0	3
	Transwestern Pipeline Co.	0	0	0	0	0	4
	Kern /Mojave	146	146	0	0	0	5
	PGT/PG&E	0	0	0	0	0	6
	Other	0	0	0	0	0	7
TOTAL Out-of-State Gas		0	0	0	0	0	8
Subtotal		0	0	0	0	0	9
Underground Storage Withdrawal		0	0	0	0	0	10
TOTAL GAS SUPPLY AVAILABLE		0	0	0	0	0	11
GAS SUPPLY TAKEN							
California Source Gas		0	0	0	0	0	12
Out-of-State Gas							
	Pacific Interstate Companies	0	0	0	0	0	13
	Other Out-of-State	150	162	180	205	232	14
Total Out-of-State Gas		150	162	180	205	232	15
Subtotal		150	162	180	205	232	
Underground Storage Withdrawal		0	0	0	0	0	17
TOTAL GAS SUPPLY TAKEN		150	162	180	205	232	18
REQUIREMENTS FORECAST BY END-USE							
CORE	Residential	0	0	0	0	0	1
CORE/NONCORE	Commercial	0	0	0	0	0	2
CORE/NONCORE	Industrial	0	0	0	0	0	3
Subtotal		0	0	0	0	0	4
NONCORE	Non-EOR Cogeneration	0	0	0	0	0	5
	EOR Cogen. & Steaming	0	0	0	0	0	6
	Electric Utilities	150	162	180	205	232	7
Subtotal		150	162	180	205	232	8
WHOLESALE	Residential	0	0	0	0	0	9
	Com. & Ind., others	0	0	0	0	0	10
	Electric Utilities	0	0	0	0	0	11
Subtotal WHOLESALE		0	0	0	0	0	12
	Co. Use & LUAF	0	0	0	0	0	13
Subtotal-END USE		150	162	180	205	232	14
	Storage Injection	0	0	0	0	0	15
SYSTEM TOTAL THROUGHPUT		150	162	180	205	232	16
TRANSPORTATION AND EXCHANGE							
CORE	All End Uses	0	0	0	0	0	17
NONCORE	Commercial/Industrial	0	0	0	0	0	18
	Non-EOR Cogeneration	0	0	0	0	0	19
	EOR Cogen. & Steaming	0	0	0	0	0	20
	Electric Utilities	150	162	180	205	232	21
Subtotal-RETAIL		150	162	180	205	232	22
WHOLESALE	All End Uses	0	0	0	0	0	23
TOTAL TRANSPORTATION & EXCHANGE		150	162	180	205	232	24
CURTAILMENT (RETAIL & WHOLESALE)							
	Core	0	0	0	0	0	25
	Noncore	0	0	0	0	0	26
	TOTAL-Curtailment	0	0	0	0	0	27
REFUSAL		0	0	0	0	0	28