IRP COMMUNITY MEETING #2: POWER SUPPLY UPDATE July 13, 2023

WATER AND

POWER

Presented by:

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Power Supply Division, Burbank Water and Power

Agenda

- IRP timeline
- Gas and energy price update
- Renewable procurement
 update







BURBANK WATER AND POWER

IRP Timeline

IRP Related Meetings

2024 INTEGI RESOU PLAN

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Type of m	neeting	Frequency	Meetings held to date	s Future meetings planned	Total
BWP 2023 If survey	RP stakeholder	Continuous	Available early 2023		Almost 900 responses
Stakeholder Advisory Gr	[.] Technical oup meetings	Monthly	6	3	9
Stakeholder meetings	community	Periodic	2	1	3
BWP Board	meetings	Monthly	8	4	12
City Counci	Imeetings	Periodic	1	3	4
			16	12	28

IRP Timeline

STAG Meeting #1-#6 (December 2022-June 2023)

- IRP 101
- Power Supply 101
- Energy Price update

Board Update (January- June 2023)

 Update on STAG meetings Community Stakeholder Meeting #1

(April 20, 2023)

- IRP 101 and Power resources 101
- Public comment

City Council Update (April 25, 2023)

- STAG meeting update
- Community
 meeting update
- Timeline



IRP Timeline



- Modeling results
- Scenario selection
- Final results

Board Update
(August-September)
Update on STAG meetings Community Stakeholder Meeting #2-#3 (July 13, 2023 and

- August 10, 2023
- Modeling results
- Final results

Board and City Council Approvals (October-December 2023)

Final IRP



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Gas and Energy Price Update

Gas and Energy Average Market Prices-Daily

INTEGRATED RESOURCE PLAN

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CALENDAR YEAR	GAS (\$/MMBTU)	ENERGY (\$/MWH)
2017	\$3.41	\$32.77
2018	\$5.14	\$41.93
2019	\$4.08	\$32.50
2020	\$3.01	\$47.61
2021	\$6.99	\$61.81
2022	\$9.27	\$96.28
2023 (AS OF JUNE END)	\$7.93	\$67.32
GROWTH 2020 TO 2023	2.6X	1.4X

Natural Gas Market <u>Historical</u> Prices

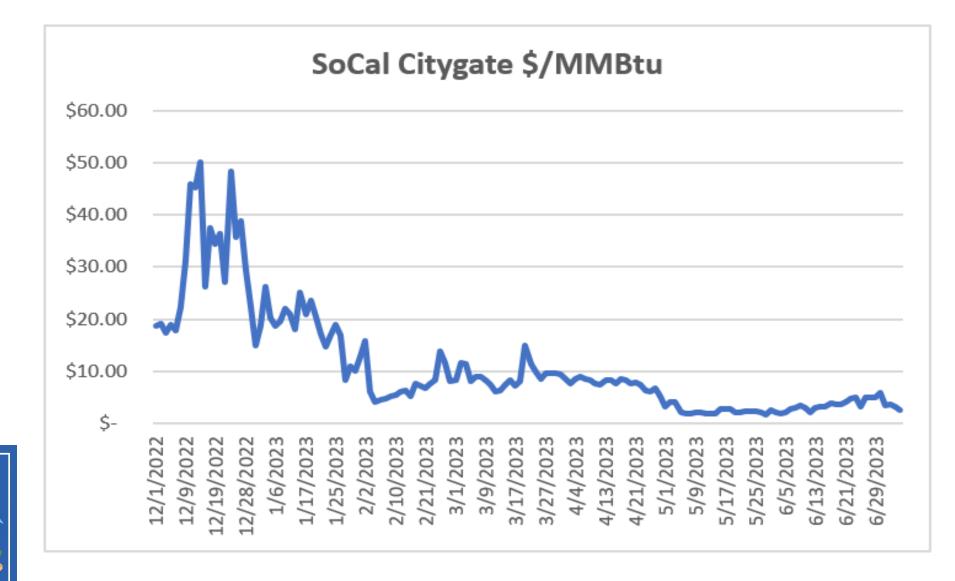
2024

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RESOURCE PLAN

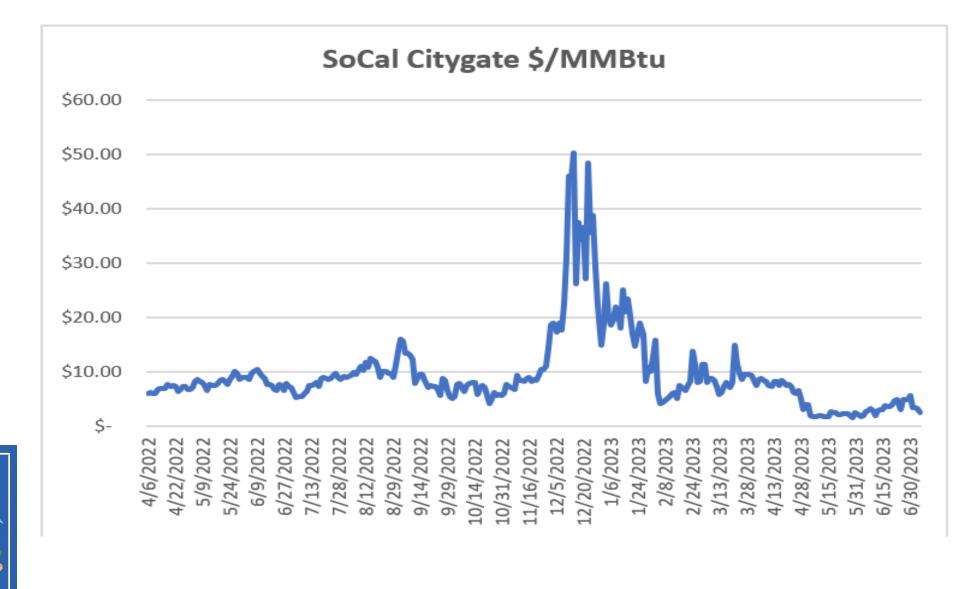


Natural Gas Market <u>Historical</u> Prices

2024

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Natural Gas Market <u>Future</u> Prices

SoCal Citygate Natural Gas Future Annual Price \$/MMBtu

\$ 6.67
\$ 6.52
\$ 6.46
\$ 6.41
\$ 6.46
\$ 6.52
\$ 6.62
\$ 6.73
\$ 6.86
\$ 6.99
\$ 7.14
\$ 6.67
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Renewable Procurement Update

Renewable Portfolio Standard

Law	Details
Senate Bill (SB) X1-2 (2011)	33% Renewable Portfolio Standard (RPS) by 2020
SB 350 (2015)	33% RPS by 2020 50% RPS by 2030 IRP Requirement
SB 100 (2018)	60% RPS by 2030 100% zero carbon resources by 2045



Penalties for BWP non-compliance are estimated at \$147 million



SENATE BILL (SB) 100

SB 100 signed into law on September 10, 2018

Glean						
California RPS	Comp Perio		Compliance Period 4	Compliance Period 5	Compliance Period 6	Compliance Period 7+
mandatory procurement	YEAR	%	Calendar year (CY): 2021-2024 44% by 12/31/2024	CY: 2025- 2027	CY: 2028- 2030	
requirement (% of net retail sales)	2017	27.0%				CY: 2031+
(70 OF HELTELAIT SALES)	2018	29.0%				(3-year blocks)
	2019	31.0%		52% by 12/31/2027	60% by 12/31/2030	60% post
	2020	33.0%				2030
Portfolio content category (PCC) 1 minimum:	75% or more of net procurement requirement					
PCC 2 maximum:	25% or less of net procurement requirement (note in order to maximize PCC 3 use, BWP would use a maximum of 15% PCC 2.)					
PCC 3 maximum:	10% or less of net procurement requirement					
Long-term contract requirement:	N/A At least 65% of contracts must be long-term contracts (at least 10 years or more in duration).					

Renewable Projects

2 Projects

Negotiations of Term Sheet has started

Each has challenges

• Start date delayed, multiple parties, etc.





Renewable Projects

Solar project in Utah

- 40 MW BWP (about 10% RPS equivalent)
- 2 other cities
- Start date 2027

Small Hydro in California

- 6 MW (about 2% RPS equivalent)
- Start date 2024





RPS Projections-Including Solar and Hydro

