

# IRP COMMUNITY MEETING #3: IRP 101



WATER AND  
POWER

August 10, 2023

**Presented by:**

Anthony D'Aquila

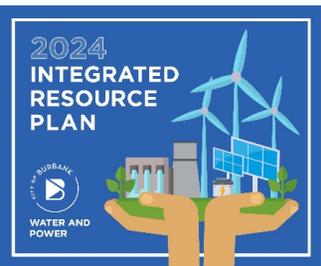
Power Resources Manager

Power Supply Division, Burbank Water and  
Power



# Agenda

- IRP Purpose
- IRP Timeline
- Rules and regulations



# **BURBANK WATER AND POWER**

**IRP Purpose**

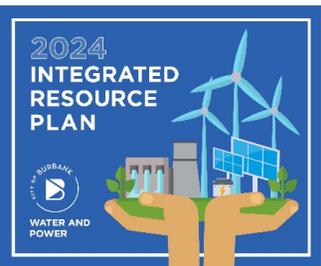
# What is an IRP

- Long term power supply planning for resources, transmission, renewable energy compliance and greenhouse gas compliance.
- Study term is 2024-2047



# Burbank IRP Objectives

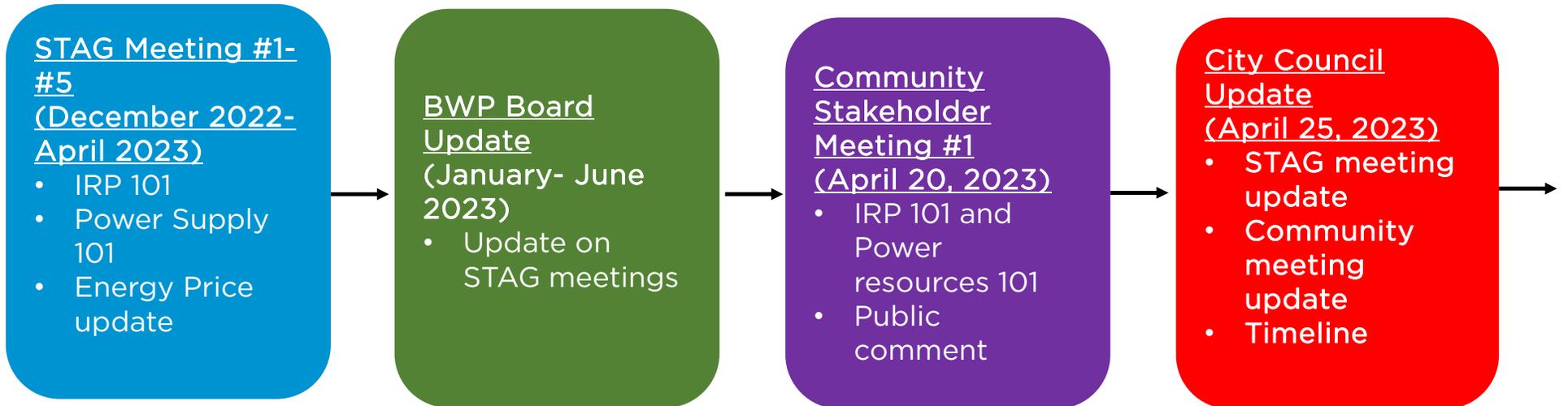
- Find a balance between
  - Reliability
    - Keeping the lights on
  - Cost
    - Quality services at reasonable costs
  - Sustainability
    - Greenhouse gas (GHG) reductions
    - Renewable Portfolio Standard (RPS)



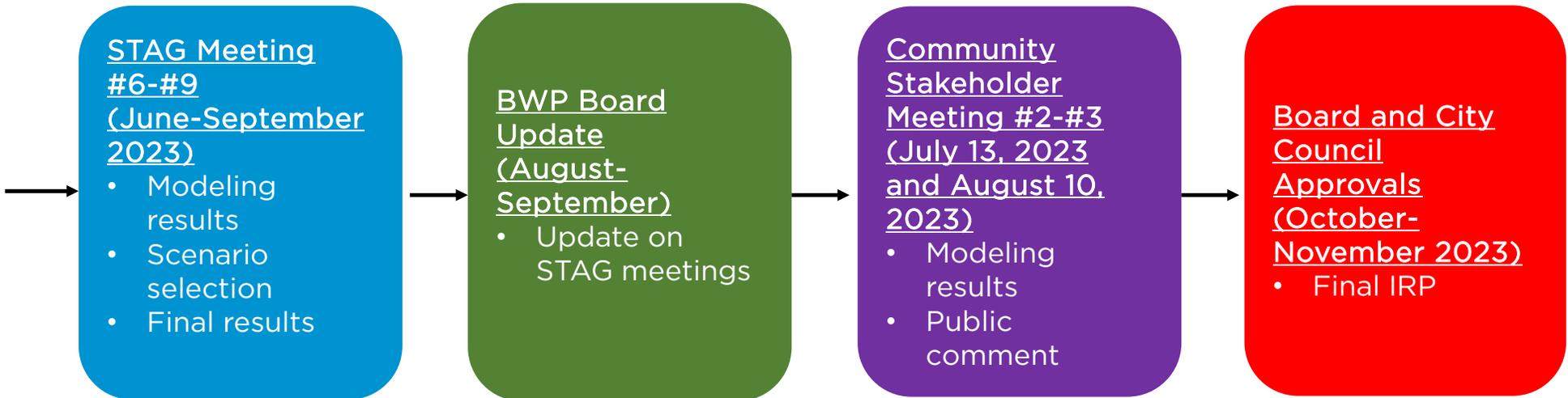
# **BURBANK WATER AND POWER**

**IRP Timeline**

# IRP Timeline



# IRP Timeline



# **CALIFORNIA RULES, REGULATIONS & COSTS**

- **Renewables**
- **IRP Mandate**

# 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
SB 1020 (2022)	90% zero carbon resources by 2035 95% zero carbon resources by 2035

Penalties for BWP non-compliance are estimated at \$160 million





# SENATE BILL (SB) 100

SB 100 signed into law on September 10, 2018

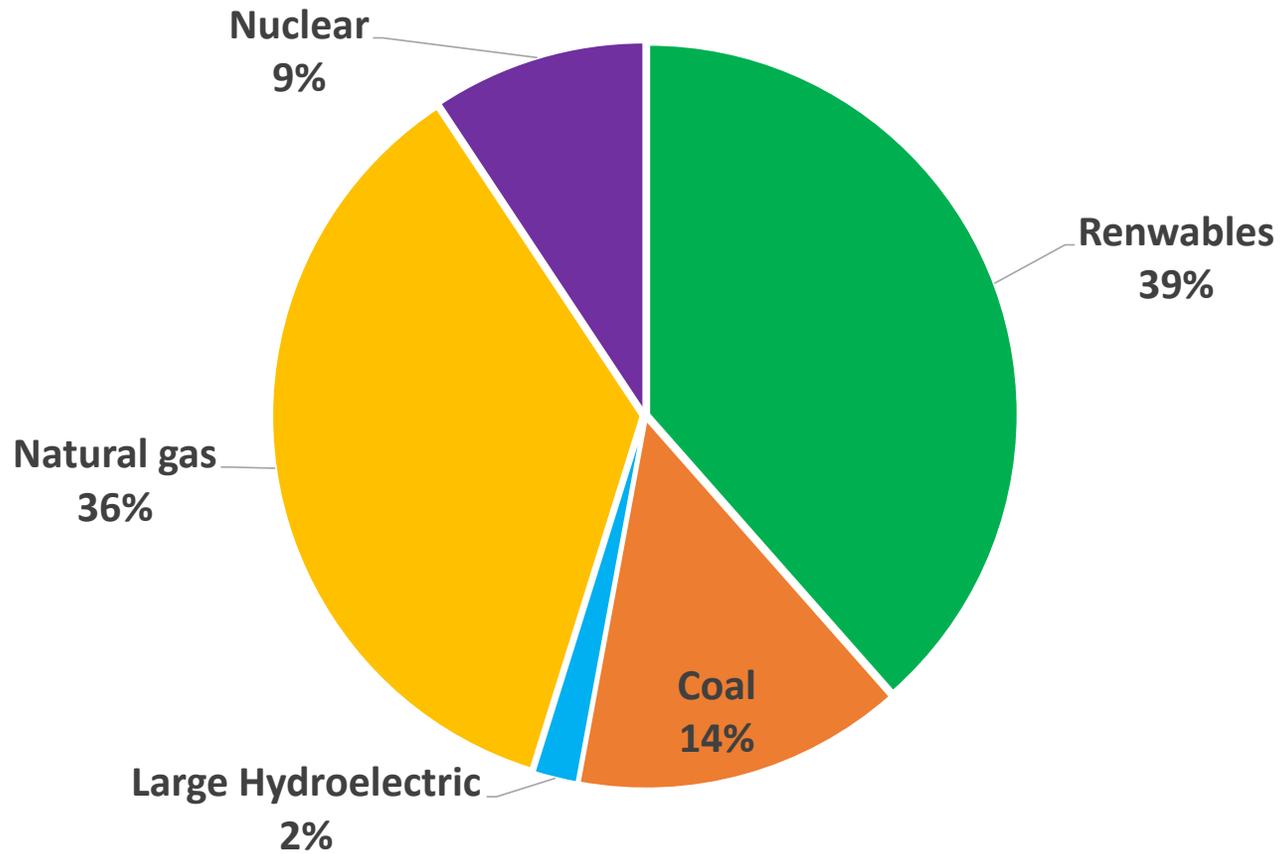
	Compliance Period 3		Compliance Period 4	Compliance Period 5	Compliance Period 6	Compliance Period 7+
California RPS mandatory procurement requirement (% of net retail sales)	YEAR	%	Calendar year (CY): 2021-2024	CY: 2025-2027	CY: 2028-2030	CY: 2031+ (3-year blocks)
	2017	27.0%				
	2018	29.0%	44% by 12/31/2024	52% by 12/31/2027	60% by 12/31/2030	60% post 2030
	2019	31.0%				
	2020	33.0%				
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).			

# SB 350 Requirements

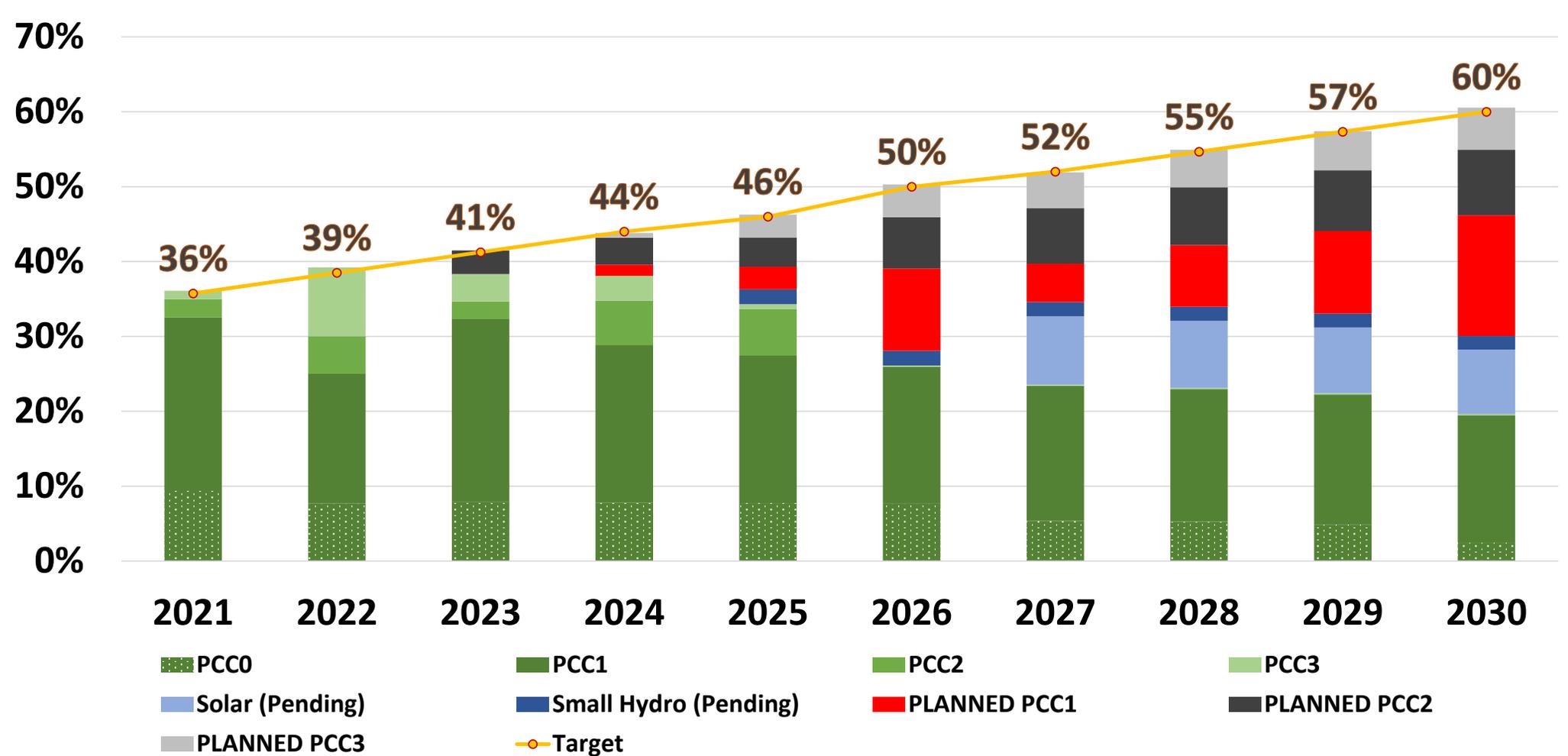
- Mandates an IRP for utilities with load > 700 giga-watt hours
- There are 16 publicly owned utilities in CA that need to develop an IRP
- The California Energy Commission (CEC) IRP template under review
- IRP is due before 1/1/24
  - IRP written document/report
  - 4 required tables
  - Supplemental information



# Resource Mix 2022



# Burbank Renewable Energy Projections



## Average Energy and Natural Gas Prices

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)	<b>\$7.93</b>	<b>\$67.32</b>
GROWTH 2020 TO 2023	2.6X 	1.4X 

# **Thank you for your time**

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