## The Metropolitan Water District of Southern California



The mission of the Metropolitan Water District of Southern California is to provide its service area with adequate and reliable supplies of high-quality water to meet present and future needs in an environmentally and economically responsible way.

#### LTRPPBM Committee M. Petersen, Chair

D. Alvarez J. D. Armstrong

D. Erdman S. Faessel

T. Quinn N. Sutley

L. Fong-Sakai J. McMillan

K. Seckel, Vice Chair

#### Subcommittee on Long-Term Regional Planning Processes and Business Modeling

Wednesday, July 24, 2024 Meeting Schedule 09:30 a.m. LTRPPBM

Meeting with Board of Directors \*

#### July 24, 2024

#### 9:30 a.m.

Agendas, live streaming, meeting schedules, and other board materials are available here:

https://mwdh2o.legistar.com/Calendar.aspx. Written public comments received by 5:00 p.m. (business days) before the meeting is scheduled will be posted under the Submitted Items and Responses tab available here:

https://mwdh2o.legistar.com/Legislation.aspx.

If you have technical difficulties with the live streaming page, a listen-only phone line is available at 1-877-853-5257; enter meeting ID: 862 4397 5848.

Members of the public may present their comments to the Board on matters within their jurisdiction as listed on the agenda via in-person or teleconference. To participate via teleconference 1-833-548-0276 and enter meeting ID: 815 2066 4276 or to join by computer <u>click here.</u>

MWD Headquarters Building • 700 N. Alameda Street • Los Angeles, CA 90012 Teleconference Locations: 3008 W. 82nd Place • Inglewood, CA 90305 525 Via La Selva • Redondo Beach, CA 90277 City Hall • 303 W. Commonwealth Avenue • Fullerton, CA 92832 3024 Fairview Drive • Vista, CA 92084 18700 Ward Street, Conf. Room 102 • Fountain Valley, CA 92708

\* The Metropolitan Water District's meeting of this Committee is noticed as a joint committee meeting with the Board of Directors for the purpose of compliance with the Brown Act. Members of the Board who are not assigned to this Committee may participate as members of the Board, whether or not a quorum of the Board is present. In order to preserve the function of the committee as advisory to the Board, members of the Board who are not assigned to this Committee.

1. Opportunity for members of the public to address the committee on matters within the committee's jurisdiction (As required by Gov. Code Section 54954.3(a))

#### \*\* CONSENT CALENDAR ITEMS -- ACTION \*\*

#### 2. CONSENT CALENDAR OTHER ITEMS - ACTION

 A. Approval of the Minutes of the Subcommittee on Long-Term Regional Planning Processes and Business Modeling Meeting for April 24, 2024 and June 26, 2024 (Copies have been submitted to each Director, Any additions, corrections, or omissions)

Attachments: 07242024 LTRPPBM 2A (04242024) Minutes 07242024 LTRPPBM 2A (06262024) Minutes

#### \*\* END OF CONSENT CALENDAR ITEMS\*\*

#### 3. SUBCOMMITTEE ITEMS - CAMP4W TASK FORCE

Member Agency Managers Task Force Members 21-3610 a. Cesar Barrera, City of Santa Ana Nina Jazmadarian, Foothill Municipal Water District Shivaji Deshmukh, Inland Empire Utilities Agency Dave Pedersen, Las Virgenes Municipal Water District Anatole Falagan, Long Beach Water Department Anselmo Collins, Los Angeles Department of Water and Power Harvey De La Torre, Municipal Water District of Orange County Dan Denham, San Diego County Water Authority Kristine McCaffrey, Calleguas Municipal Water District Tom Love, Upper San Gabriel Valley Municipal Water District Craig Miller, Western Municipal Water District Joe Mouawad, Eastern Municipal Water District Stacie Takeguchi, Pasadena Water and Power CAMP4W Task Force- Signposts, Model Inputs, and Annual b. 21-3611 Reports Attachments: 07242024 LTRPPBM 3b Presentation C. CAMP4W Task Force - Time-bound Targets Refinement 21-3612 Attachments: 07242024 LTRPPBM 3c Presentation

#### Subcommittee on Long-Term Regional Planning Processes and Business Modeling Page 3

**d.** Provide direction to Member Agency Managers regarding the <u>21-3700</u> scope of their input for the business model review

Attachments: 07242024 LTRPPBM 3d Guidance for Ad Hoc Working Group

e. Status of Water Treatment Cost Recovery Discussions

**21-3701** 

#### 4. FOLLOW-UP ITEMS

NONE

#### 5. FUTURE AGENDA ITEMS

#### 6. ADJOURNMENT

NOTE: This committee reviews items and makes a recommendation for final action to the full Board of Directors. Final action will be taken by the Board of Directors. Committee agendas may be obtained on Metropolitan's Web site https://mwdh2o.legistar.com/Calendar.aspx. This committee will not take any final action that is binding on the Board, even when a quorum of the Board is present.

Writings relating to open session agenda items distributed to Directors less than 72 hours prior to a regular meeting are available for public inspection at Metropolitan's Headquarters Building and on Metropolitan's Web site https://mwdh2o.legistar.com/Calendar.aspx.

Requests for a disability-related modification or accommodation, including auxiliary aids or services, in order to attend or participate in a meeting should be made to the Board Executive Secretary in advance of the meeting to ensure availability of the requested service or accommodation.

#### THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

#### MINUTES

#### SUBCOMMITTEE ON LONG-TERM REGIONAL PLANNING PROCESSES AND BUSINESS MODELING

#### April 24, 2024

Chair Petersen called the meeting to order at 9:32 a.m.

Members present: Directors Alvarez, Armstrong, Erdman (teleconference posted location), Fong-Sakai, McMillan (entered after roll call), Petersen, Quinn (entered after roll call), and Seckel.

Members absent: Directors Faessel, Gualtieri, and Sutley.

Other Board Members present: Directors Bryant, Dennstedt, Fellow (teleconference posted location), Goldberg, Gray (teleconference posted location), Jung (teleconference posted location), Kurtz, Lefevre (teleconference posted location), Miller, Morris, Ortega, Pressman (teleconference posted location), Peterson, and Smith.

Committee Staff present: Crosson, Mortada, Quilizapa, and Salgado.

#### 1. OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE COMMITTEE ON MATTERS WITHIN THE COMMITTEE'S JURISDICTION

Darcy Burke, Elsinore Valley Municipal Water District, commented on item 3b.

Joone Kim-Lopez, Moulton Niguel Water District, commented on item 3b

Justin Breck, Los Angeles Waterkeeper distributed Memoranda March 8, 2024. This item will be made part of the record.

#### **CONSENT CALENDAR ITEMS -- ACTION**

#### 2. CONSENT CALENDAR OTHER ITEMS - ACTION

A. Approval of the Minutes of the Subcommittee on Long-Term Regional Planning Processes and Business Modeling for March 27, 2024 (Copies have been submitted to each Director, Any additions, corrections, or omissions)

Director Fong-Sakai made a motion, seconded by Director Seckel, to approve the consent calendar consisting of item 2A.

The vote was:

Ayes: Directors Alvarez, Armstrong, Erdman, Fong-Sakai, McMillan, Petersen, Quinn, and Seckel.

Noes: None

Subcommittee on Long-Term Regional -2-Planning Processes and Business Modeling

Abstentions: None

Absent: Directors Faessel, Gualtieri, and Sutley.

The motion for Item 2A passed by a vote of 8 ayes, 0 noes, 0 abstain, and 3 absent.

#### END OF CONSENT CALENDAR ITEMS

#### 3. SUBCOMMITTEE ITEMS - CAMP4W TASK FORCE

a. Subject: Member Agency Managers Task Force Members

Cesar Barrera, City of Santa Ana Nina Jazmadarian, Foothill Municipal Water District Shivaji Deshmukh, Inland Empire Utilities Agency Dave Pedersen, Las Virgenes Municipal Water District Anatole Falagan, Long Beach Water Department Anselmo Collins, Los Angeles Department of Water and Power Harvey De La Torre, Municipal Water District of Orange County Dan Denham, San Diego County Water Authority Kristine McCaffrey, Calleguas Municipal Water District Tom Love, Upper San Gabriel Valley Municipal Water District Joe Mouawad, Eastern Municipal Water District Stacie Takeguchi, Pasadena Water and Power

Presented by: No presentation was given.

Task Force Members present: Member Agency Manager Members Barrera, Collins, De La Torre, Deshmukh, Falagan, Jazmadarian, Love, McCaffrey, Miller, and Mouawad.

b.	Subject:	Climate Adaptation Master Plan for Water – Draft Year One
		Progress Report
	Presented by:	Elizabeth Crosson, Chief Sustainability, Resilience, and Innovation
		Officer

Ms. Crosson presented the committee with an overview of the Climate Adaptation Master Plan for Water Draft Year One Progress Report documents progress since February 2023 and sets up the next steps for 2024. Her presentation included the focus on next steps for 2024 laid out in Sections 4 through 6 of the Report. This is preparation for a potential concurrence action at the May Finance and Asset Management Board Committee meeting.

Ms. Crosson introduced Mr. Mohsen Mortada to present an overview of the business model refinement. His presentation included why Metropolitan's business model should be refined, which included overall uncertainty of supply and demand, changing social landscape and regulations, technological advancements, the evolution of consumers and the utility sector, and

climate change. A list of three questions regarding the business model was presented to the Task Force by use of the Mentimeter, and Committee members and the Task Force voted.

The following Directors and Member Agency Managers asked questions and provided comments:

- 1. Falagan
- 2. De La Torre
- 3. Love
- 4. Petersen
- 5. Deshmukh
- 6. Alvarez
- 7. Ortega
- 8. Peterson
- 9. Seckel
- 10. Erdman
- 11. Goldberg
- 12. Fong-Sakai
- 13. Mouawad
- 14. Armstrong
- 15. Dennstedt
- 16. Miller
- 17. Jazmadarian
- 18. Collins
- 19. McCaffrey
- 20. Bryant

Staff responded to Directors' and Member Agency Managers comments and questions.

#### 4. FOLLOW-UP ITEMS

Ms. Crosson requested comments for the Climate Adaptation Master Plan for Water – Draft Year One Progress Report be due by May 3, 2024.

#### 5. FUTURE AGENDA ITEMS

None

#### 6. ADJOURNMENT

The next meeting will be held on May 30, 2024.

The meeting adjourned at 11:35 a.m.

Matt Petersen Chair

6

#### THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

#### MINUTES

#### SUBCOMMITTEE ON LONG-TERM REGIONAL PLANNING PROCESSES AND BUSINESS MODELING

#### June 26, 2024

Chair Petersen called the meeting to order at 12:32 p.m.

Members present: Directors Alvarez, Armstrong, Erdman (entered after roll call), Faessel, McMillan, Petersen, Seckel, and Sutley (entered after roll call).

Members absent: Directors Fong-Sakai, and Quinn.

Other Board Members present: Directors Bryant, Cordero (teleconference) Dennstedt, Fellow, Goldberg, Gray (teleconference posted location) Kurtz, Lefevre, Miller (teleconference posted location), Morris, Ortega, and Smith.

Committee Staff present: Crosson, Dunbar, Mortada, Quilizapa.

#### 1. OPPORTUNITY FOR MEMBERS OF THE PUBLIC TO ADDRESS THE COMMITTEE ON MATTERS WITHIN THE COMMITTEE'S JURISDICTION Derey Purks of Elsinors Velley Municipal Water District provided on oral statement

Darcy Burke of Elsinore Valley Municipal Water District provided an oral statement.

#### **CONSENT CALENDAR ITEMS – ACTION**

#### 2. CONSENT CALENDAR OTHER ITEMS – ACTION

 A. Approval of the Minutes of the Subcommittee on Long-Term Regional Planning Processes and Business Modeling for May 30, 2024 (Copies have been submitted to each Director, Any additions, corrections, or omissions) Subcommittee on Long-Term Regional -2-Planning Processes and Business Modeling

Director Seckel made a motion to approve item 2A, seconded by Director Faessel.

The vote was:

Ayes:	Directors Alvarez, Armstrong, Faessel, McMillan, Petersen, and Seckel
Noes:	None
Abstentions:	None
Absent:	Erdman, Fong-Sakai, Quinn, and Sutley

The motion for Item 2A passed by a vote of 6 ayes, 0 noes, 0 abstentions, and 4 absent.

#### END OF CONSENT CALENDAR ITEMS

#### **3.** SUBCOMMITTEE ITEMS - CAMP4W TASK FORCE

a.	Subject:	Member Agency Managers Task Force Members
		Cesar Barrera, City of Santa Ana
		Nina Jazmadarian, Foothill Municipal Water District
		Shivaji Deshmukh, Inland Empire Utilities Agency
		Dave Pedersen, Las Virgenes Municipal Water District
		Anatole Falagan, Long Beach Water Department
		Anselmo Collins, Los Angeles Department of Water and Power
		Harvey De La Torre, Municipal Water District of Orange County
		Dan Denham, San Diego County Water Authority
		Kristine McCaffrey, Calleguas Municipal Water District
		Tom Love, Upper San Gabriel Valley Municipal Water District
		Craig Miller, Western Municipal Water District
		Joe Mouawad, Eastern Municipal Water District
		Stacie Takeguchi, Pasadena Water and Power
	Presented by:	No presentation was given.

Task Force Members present: Member Agency Manager Members Barrera, Collins, De La Torre, Denham, Deshmukh, Falagan, Jazmadarian, Love, McCaffrey, Miller, Mouawad, and Pedersen.

b.	Subject:	Integrating a Changing Climate into Metropolitan's Planning Processes
	Presented by:	John Shamma, Engineering Services Section Manager

Mr. Shamma led the discussion regarding item 3b, Integrating a Changing Climate into Metropolitan's Planning Processes.

The following Directors and Member Agency Managers asked questions and provided comments:

- 1. Chair Petersen
- 2. Vice Chair Seckel
- 3. Director Smith
- 4. Member Agency Manager Mouawad
- 5. Member Agency Manager De La Torre
- 6. Member Agency Manager Collins
- 7. Member Agency Manager Falagan
- 8. Member Agency Manager Takeguchi
- 9. Member Agency Manager Jazmadarian

Staff responded to Directors' and Member Agency Manager's comments and questions.

c. Subject: Climate Vulnerability Assessment

Presented by: Adrian Hightower, Special Project Manager

Mr. Hightower led the discussion regarding item 3c, Climate Vulnerability Assessment.

The following Directors and Member Agency Managers asked questions and provided comments:

- 1. Chair Petersen
- 2. Director Sutley
- 3. Member Agency Manager Takeguchi

Staff responded to Directors' and Member Agency Manager's comments and questions.

d. Subject: Business Model Refinement

Presented by: Mohsen Mortada, Chief of Staff

Mr. Mortada led the discussion regarding item 3d, Business Model Refinement.

The following Directors and Member Agency Managers asked questions and provided comments:

- 1. Member Agency Manager Miller
- 2. Board Chair Ortega
- 3. Director Smith
- 4. Chair Petersen

- 5. Member Agency Manager De La Torre
- 6. Member Agency Manager Collins
- 7. Vice Chair Seckel
- 8. Member Agency Manager Love
- 9. Director Armstrong
- 10. Director Sutley
- 11. Member Agency Manager Takeguchi
- 12. Member Agency Manager Mouawad
- 13. Director Kurtz
- 14. Member Agency Manager Falagan
- 15. Member Agency Manager Pedersen

Staff responded to Directors' and Member Agency Manager's comments and questions.

#### 4. FOLLOW-UP ITEMS

None

#### 5. FUTURE AGENDA ITEMS

None

The next meeting will be held on July 24, 2024.

The meeting adjourned at 3:33 p.m.

Matt Petersen

Chair



Subcommittee on Long-Term Regional Planning and Business Modeling

CAMP4W Task Force- Signposts, Model Inputs, and Annual Reports

Item 3b July 24, 2024

## July 24 CAMP4W Task Force

## Agenda

I) Adaptive Management Process and Component

- CAMP4W Annual Report Components
- Signposts
- Time-Bound Targets

2) Provide direction to Member Agency Managers regarding the scope of their input for the business model review

3) Status of Water Treatment cost recovery discussions



## 2024 Schedule of CAMP4W and Business Model Discussions



July 24, 2024

# Adaptive management is a <u>structured and ongoing process</u> that:

- l) Promotes <u>flexible decision-making</u>
- 2) <u>Tracks real-world climate impacts and trends</u> that impact water supplies and demands
- 3) Ensures inclusion of <u>up-to-date information</u>
- 4) <u>Facilitates adjustments</u> to planning assumptions and targets
- 5) <u>Enables an iterative and informed climate</u> adaptation plan

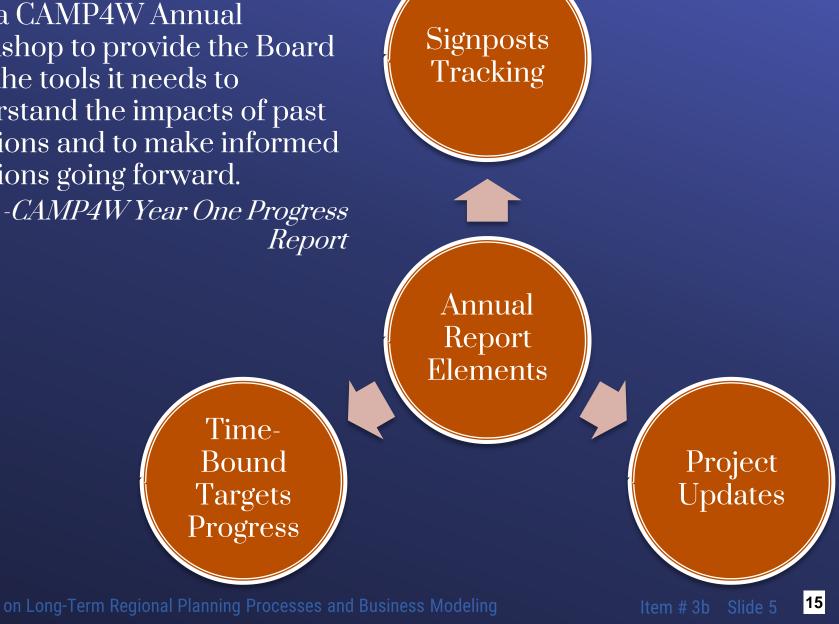




Annual Report Outline

Metropolitan staff will prepare a CAMP4W Annual Report and hold a CAMP4W Annual Workshop to provide the Board with the tools it needs to understand the impacts of past decisions and to make informed decisions going forward.

CAMP4W Climate Adaptation



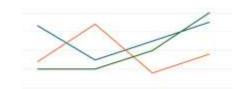
## CAMP4W Annual Report

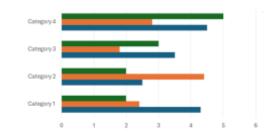
## Status Update: Signposts

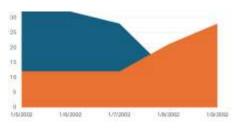
Demand Signposts	Metric	l Metric	2 Metric 3
Signpost A	XX	XX	XX
Signpost B	XX	XX	XX
Signpost C	XX	XX	XX
Supply Signposts			
Signpost A	XX	XX	XX
Signpost B	XX	XX	XX
Signpost C	XX	XX	XX
Infrastructure Signpost	8		
Signpost A	XX	XX	XX
Signpost B	XX	XX	XX
Signpost C	XX	XX	XX
Financial Signposts			
Signpost A	XX	XX	XX
Signpost B	XX	XX	XX
JuSignpost C	Su <b>XX</b> 0mm	ittee XX.ong	Tern <b>XX</b> gional P

SuXXxxmmittee XX.ong-TernXXgional Planning

## **Tracking of Trends Over Long-Term**

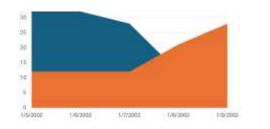










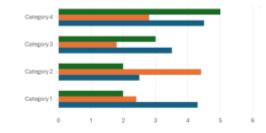


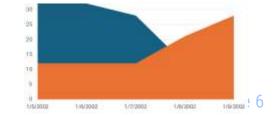
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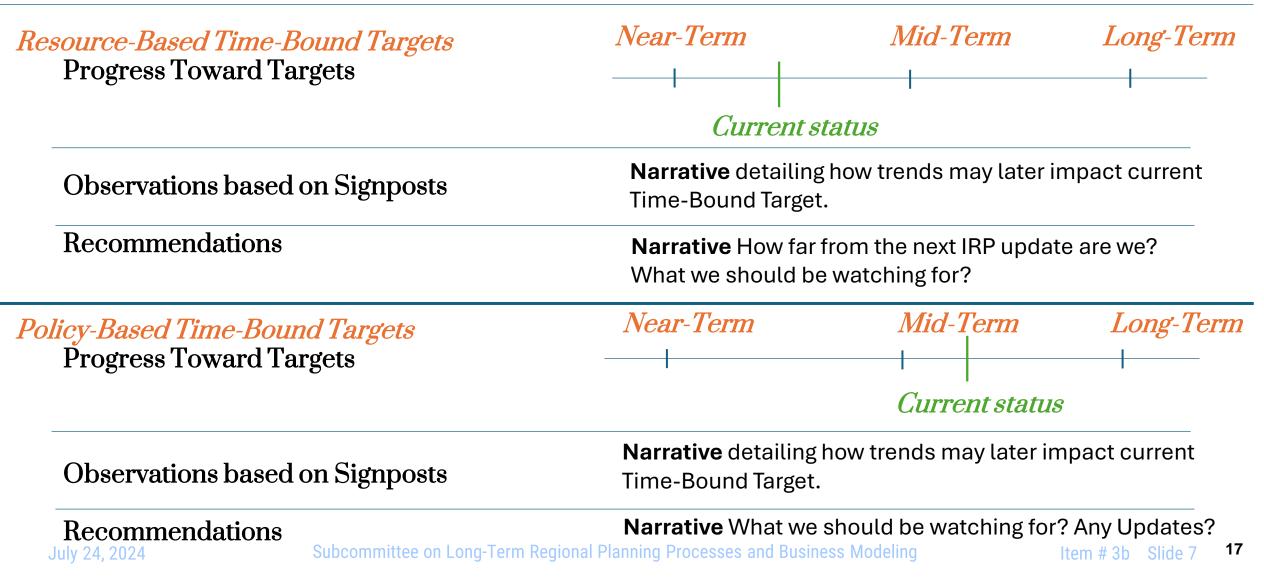






## CAMP4W Annual Report

## Status Update: Time-Bound Targets



## CAMP4W Annual Report

## Status Update: Projects and Programs

### Projects and Programs In progress Project/Program l, 2, 3 etc.

- CAMP4W Eval for current phase
- Implementation Stage: (concept, planning, design, implementation)
- **Progress**: 1-2 sentence update
- **Major modification**: Major changes since funded

Potential Projects and Programs being Considered During Next CIP/Budget Deliberations

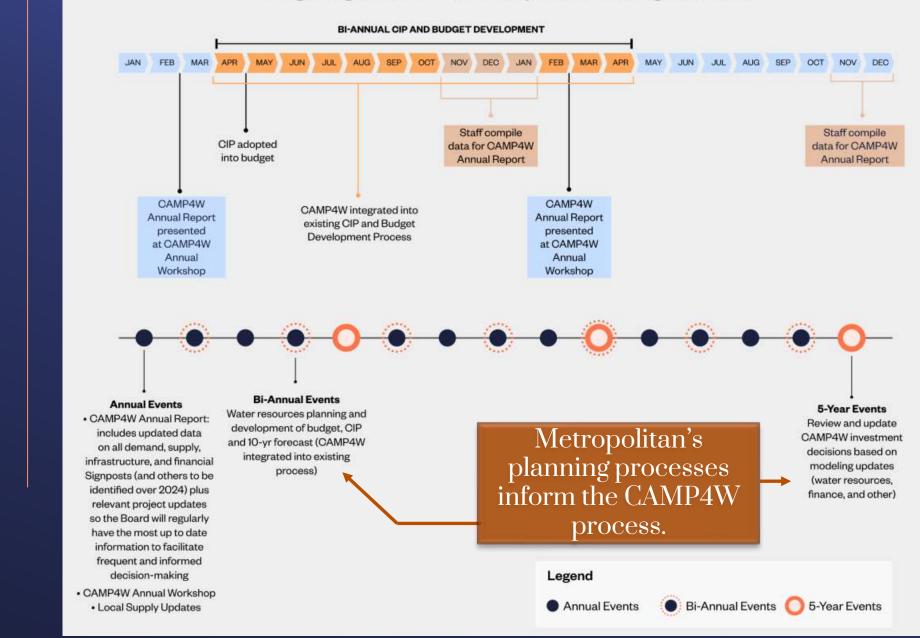
Project/Program l, 2, 3 etc.

- Potential CAMP4W Eval
- Implementation Stage: (concept, planning, design, implementation)
- **Progress**: 1-2 sentence update
- Major modification: Major changes since funded

## Map of Project Location(s)



#### Integrating CAMP4W into Metropolitan's Existing Processes



## CAMP4W Reporting Schedule

Institutionalizing Adaptive Management



bcommittee on Long-Term Regional Planning Processes and Business Modelin

19

Signposts Discussion





> Signposts Discussion

Source: CAMP4W Year One Progress Report

## Signposts

A key part of the Adaptive Management process involves reading the Signposts to understand the real-world conditions and determine if the Time-Bound Targets need to be revised, which would in turn impact investments. The complete CAMP4W will include a comprehensive and detailed list of Signposts that Metropolitan will be tracking. Below is a summary of the initial categories, which will be expanded upon over the coming year.

#### **Proposed Signposts Metrics Examples**

Signposts should be measurable, updatable, and readily available

DEMAND	SUPPLY	INFRASTRUCTURE	FINANCIAL	
Population	Climate Change Indicators	Unexpected Shutdowns	O&M Trends	
Economy	Regulations	Infrastructure Loss	Capital Cost Trends	
Local Agency Supply	Storage	Emergency Response	Emergency Response Costs	
Demand Management	Water Quality	Power Interruptions		
Regulations		Connectivity and Robustness		
		Infrastructure Capability		

The Value of Scenario Planning is to Increase Awareness of and Preparedness for Climate Change

# 2020 IRP Needs Assessment accomplished the following:

- Identified major drivers or sources of uncertainty
- Quantified the impacts of these uncertainties

## The IRP Scenarios are <u>not</u> intended to:

- Control, select, or predict the likelihood of the uncertainties
- Predict the future

Glossary

- **Drivers of Change** Specific factors whose future values and outcomes are uncertain but significantly impact future water supply reliability
- Scenario A singular view of the future under specified assumptions and outcomes
- **Supply/Demand Gap** An analysis performed for each scenario to determine the frequency and timing of net shortage conditions
- **Time-Bound Targets** Development goals to address future reliability needs as identified by the scenario supply/demand gaps
- **Signposts** Measurable indicators of the direction and trends of identified Drivers of Change through time

> Understanding Signposts

## In the context of long-term planning:

- **Factual:** Signposts are based on objective and verifiable data, not subjective opinions
- Measurable: Signposts are quantifiable ensuring they can be tracked over time
- Available: The data required to monitor must be accessible and can be regularly updated
- Non-Discretionary: Signposts are chosen based on predetermined criteria and are not subject to change based on individual preferences or ad hoc decisions

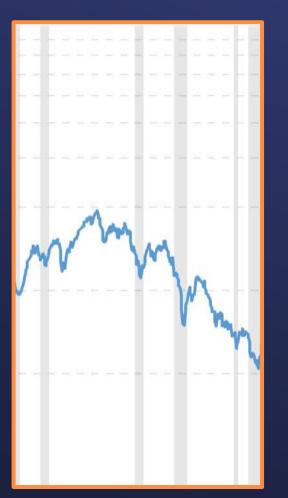
> A Disciplined Approach for Identifying & Interpreting Reliability Signposts

 Metropolitan staff developed criteria to test the appropriateness of using proposed signposts

- 2. Acknowledgement that signposts may not eliminate uncertainty, but using them allows for more structured and evidencebased decision-making
- 3. Trends take time to observe, they require statistical analysis, contextual understanding, and iterative review

July 24, 2024

## A Disciplined Approach for Identifying and Interpreting Reliability Signposts (Cont'd)





# What can we infer from this chart?

July 24, 2024

## A Disciplined Approach for Identifying and Interpreting Reliability Signposts (Cont'd)



Dow Jones Industrial Average

A Disciplined Approach for Identifying & Interpreting Reliability Signposts (cont'd)

- Signposts should not trigger actions. Actions are triggered by Board policy decisions based on relevant information
- 5. Recognition that, although signposts are based on facts and observed data, data can still be subject to revision
- 6. Avoid falling into the trap of Recency Bias that can lead to distorted decision-making as we might believe current events will persist indefinitely, neglecting the possibility of change or long-term patterns

Planning vs. Implementation

- Planning provides the necessary foresight and strategic framework, while implementation puts those strategies into action
  - Planning informs development and implementation
  - Implementation should not limit foresight and strategic thinking
  - IRP scenarios and signposts offer a disciplined approach to planning
- What prompts an update to the IRP Scenarios?
  - A structural or systemic change in the underlying uncertainties
  - New data or insights indicating that the cause-and-effect relationships made for underlying drivers of change are different than originally assumed
  - When things become more certain

- Greater Imported Supply Stability A Low Demand Stable Imports High B Demand Stable Imports High P Demand on MWD C Low Demand Reduced Imports Less Imported Supply Stability
- During Implementation, continuous signpost tracking adds to overall awareness
- IRP updates are expected roughly every 5 years

> Key Questions When Selecting Water Supply Reliability Signposts

## l. Is it measurable?

- 2. Does it matter to supply/demand?
- 3. Is the impact of the signpost persistent and not transitory (i.e., systemic)?
- 4. How does it help us with information and support for implementation decisions?

## Water Supply Reliability Signpost Evolution

Year 1 Report

Population

Climate Change

Local Supply

Storage

Regulations

Water Quality

**Demand Management** 

## Economy

Track as Signposts

## Demographics

• Population, Housing, Jobs

Climate Change

Local Supply

• Water Quality

## Storage (MWD)

• Water Quality

## Regulations

• Water Quality

## Not Signposts

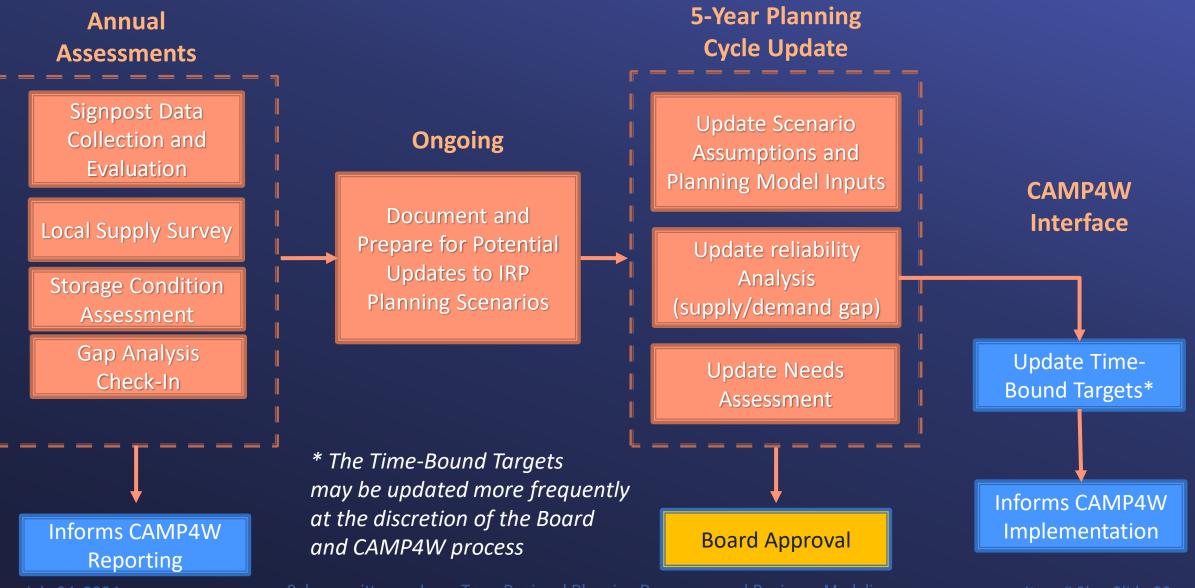
## Demand Management

- Discretionary actions taken by the Board
- Effectiveness of implementation is uncertain
- Reported monthly at OWS Committee Meetings

## Economy

- Cyclical in nature
- Influenced by signposts being tracked under Demographics

## Metropolitan's Long-Term Strategic Planning Cycle



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Reliability Signposts Discussion

## Reliability Signpost Details



July 24, 2024

# Demographic Signpost

**Data and Sources** 

- Population and Household
  - Department of Finance, Census
- Employment
  - CA Employment Development Department

## Importance

- Key inputs in modeling retail demand
- Systemic changes can affect demand/supply gaps (e.g. low birthrate and migration)

## Limitations

- Annual data are estimates by governmental agencies and are subject to revision
- Signs of systemic change can take a long time (Census)

# Local Agency Supply Signpost

## **Data and Sources**

- Member agency coordination/ Local Supply Survey
- Groundwater basin reports

## Importance

- Key inputs in modeling Metropolitan's demand
- Systemic changes can affect demand/supply gaps (e.g. impaired groundwater basins)

## Limitations

- Local Supply is also dependent on weather variation
- Data is not available in real-time (year plus delay)
- Data is provisional and subject to reconciliation and revisions

## Regulation Signpost

## **Data and Sources**

- DWR's Delivery Capability Report (CALSIM III)
- SWP BiOps
- USBR 24-Month Study Reporting (CRSS)
- CRA Post-2026 Operating Guidelines
- CRA Constituents of Concerns

## Importance

- Regulations may have significant impacts on Metropolitan's core supplies and demands
- Regulatory parameters are reflected in Metropolitan's modeling

## Limitations

- Implementation and effectiveness of regulations may be uncertain
- May be subject to legal challenges and negotiations

# Metropolitan Storage Signpost

#### **Data and Sources**

- Metropolitan's storage accounting
  - Put/take capacity
  - Accessible storage by region
  - End-of-year storage balances

#### Importance

 Stored water is a core supply needed to balance demand and supply.

#### Limitations

 Storage balances can fluctuate from year-toyear

July 24, 2024

# Climate Change Signpost

#### **Data and Sources**

#### • GHG emission

- Annual California Hydroclimate Report
- Intergovernmental Panel on Climate Change National Oceanic and Atmospheric Administration
- CALSIM III (DWR's modeling tool)
- CRSS (USBR's modeling tool)

#### Importance

- Emission trends are an indicator of how climate change risk is developing
- RCPs are reflected in MWDs modeling
  - CALSIM III includes RCP modeling
  - Estimated climate impacts associated with RCPs are applied to the CRSS inputs

#### Limitations

- Difficulty in downscaling impacts to local areas
- The impacts of climate change take years to be established
- Climate models incorporate the latest thinking, but climate science continues to evolve

Reliability Signposts Discussion

## Next Steps

- Refine the identified Water Supply Reliability Signposts
- Identify potential additional Water Supply Reliability Signposts
- Come back with an update on the Infrastructure and Financial Signposts in a future CAMP4W Task Force meeting





Subcommittee on Long-Term Regional Planning and Business Modeling

## CAMP4W Task Force – Time-Bound Targets Refinement

Item 3c July 24, 2024

> Time-Bound Targets Defined



*Time-Bound Targets are policy and resource* management goals to guide project and program development and inform the scoring/evaluation of proposed investments. *Time-Bound Targets will be reference points* in measuring progress towards climate adaptation and the CAMP4W objectives.



Time-Bound Targets in CAMP4W Year One Report



0 <mark>0</mark>	CATEGORY	NEAR TERM	MID TERM	LONG TERM	
Resource- Based Targets Numbers reflect additional supplies unless indicated	Core Supply <sup>1</sup>	N/A	Identify 300 TAF for potential implementation by 2035. Alternatively, 250 TAF of new storage will reduce core supply need to 200 TAF	Identify 650 TAF for potential implementation by 2045. Alternatively, 250 TAF of new storage will reduce core supply need to 550 TAF or, 500 TAF of new storage will reduce core supply need to 500 TAF	
otherwise	Storage	Identify up to 500 TAF for potential implementation by 2035			
	Flex Supply (Dry Year Equivalent)	Acquire capability for up to 100 TAFY			
	CATEGORY	NEAR TERM	MID TERM	LONG TERM	
E≊ Policy-Based Targets	Equitable Supply Reliability	Add 160 CFS capacity to the SWPDA by 2026	Implement additional 130 CFS capacity to SWPDA by 2032	Implement capacity, conveyance, supply, and programs for SWPDA by 2045	
	Local Agency Supply <sup>2</sup>	Maintain 2.09 to 2.32 MAF (under average year conditions)	2.12 to 2.37 MAF (under average year conditions)	2.14 to 2.40 MAF (under average year conditions)	
	Demand Management <sup>3</sup>	Implement structural conservation programs to achieve 300 TAF by 2045			
	Regional Water Use	Assist Retail Agencies to achieve, or exceed, compliance with SWRCB Water Use Efficiency Standards <sup>4</sup>			
	Efficiency	GPCD target for 2030⁵	GPCD target for 2035	GPCD target for 2045	
	Greenhouse Gas Reduction	N/A	40% below 1990 emission levels by 2 <mark>030</mark>	Carbon Neutral by 2045	
	Surplus Water Management	Develop capability to manage up to 500 TAFY of additional wet year surplus above Metropolitan's Storage Portfolio and WSDM action			

and Member Agency supply and/or

program development.

Time-Bound Targets in CAMP4W Year One Report Additional Time-Bound Targets will be considered throughout 2024 and will include categories such as the following:

<b>Community Equity:</b> Focus on investing in	Water Quality: Ensuring research,	Imported Water Source Resilience:
underserved communities, affordability	innovation, and progress in addressing	Investment in protecting source
measures and providing meaningful	emerging contaminants of concern and	watersheds and existing infrastructure
community engagement.	new regulatory requirements.	to reduce risks presented by accelerated
New Local Supply: Targets around local	Infrastructure Resilience: Investments	сигнате спануе.

necessary to meet growing climatedriven vulnerabilities during and after disruptions.

Ecosystem Health: Measurable improvements to natural systems that provide value, resilience and regulatory benefits to water supplies.

### Draft Time-Bound Targets for three additional categories are presented for discussion today.



and Member Agency supply and/or

program development.

Time-Bound Targets in CAMP4W Year One Report Additional Time-Bound Targets will be considered throughout 2024 and will include categories such as the following:

New Local Supply: Targets around local	Infrastructure Resilience: Investments	climate change.
community engagement.	new regulatory requirements.	to reduce risks presented by accelerat
measures and providing meaningful	emerging contaminants of concern and	watersheds and existing infrastructure
underserved communities, affordability	innovation, and progress in addressing	Investment in protecting source
Community Equity: Focus on investing in	Water Quality: Ensuring research,	Imported Water Source Resilience:

intrastructure Resilience: Investments necessary to meet growing climatedriven vulnerabilities during and after disruptions.

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Ecosystem Health: Measurable improvements to natural systems that provide value, resilience and regulatory benefits to water supplies.

### Three other potential targets require further development and future discussion.



Policy-Ba

Targets

Time-Bound Targets: New Local Supply



### New Local Supply Targets around local and Member Agency supply and/or program development.

	CATEGORY	NEAR TERM	MID TERM	LONG TERM	
Based	Equitable Supply Reliability	Add 160 CFS capacity to the SWPDA by 2026	Implement additional 130 CFS capacity to SWPDA by 2032	Implement capacity, conveyance, supply, and programs for SWPDA by 2045	
Local Agency Supply <sup>2</sup>		Maintain 2.09 to 2.32 MAF (under average year conditions)	2.12 to 2.37 MAF (under average year conditions)	2.14 to 2.40 MAF (under average year conditions)	
	Demand Management <sup>3</sup>	Implement structural conservation programs to achieve 300 TAF by 2045			
	Regional Water Use	Assist Retail Agencies to achieve, or exceed, compliance with SWRCB Water Use Efficiency Standards <sup>4</sup>			
	Efficiency	GPCD target for 2030⁵	GPCD target for 2035	GPCD target for 2045	
	Greenhouse Gas Reduction	N/A	40% below 1990 emission levels by 2030	Carbon Neutral by 2045	
	Surplus Water Management	Develop capability to manage up to 500 TAFY of additional wet year surplus above Metropolitan's Storage Portfolio and WSDM action			

# Local Agency Supply

- Maintain Existing Levels of Local Agency Supply
- Create Additional Local Agency Supply

Time-Bound Targets: Community Equity



### **Community Equity**

Focus on investing in underserved communities, affordability measures and providing meaningful community engagement to address the impacts of climate change.

NEAR TERM

MID TERM

LONG TERM

Develop and promote water conservation programs, rebates, and incentives for low-income and disadvantaged communities (DAC), to increase program participation and regional water conservation.

Work with legislative sponsors for continuous state and federal funding for lowincome rate assistance programs (LIRA).

Develop equity metrics and conduct community equity analyses on Metropolitan infrastructure investments, operations, and programs.

Develop a Water Affordability & Environmental Justice Policy to inform community investment associated with Metropolitan projects and programs.

July 24, 2024

Subcommittee on Long-Term Regional Planning Processes and Business Modeling

Time-Bound Targets: Community Equity



Focus on investing in unde and providing meaning imp

#### NEAR TERM

Develop and promote water collow-income and disadvantage participation and regional wat

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Work with legislative	analy
sponsors for	oper
continuous state and	
federal funding for low-	Deve
income rate assistance	Polic
programs (LIRA).	with I

#### Tracking community equity supports program evaluation, performance improvements, and state and federal grant opportunities.

**Community Equity** 

- Supporting retail customer affordability ensures financial sustainability for all water agencies to make necessary water project and program investments.
- Measuring equity will help us improve access to public water systems, and broaden public support for our water investments.

Policy to morn commany investment associated with Metropolitan projects and programs.

Time-Bound Targets: Water Quality



### Water Quality

Ensuring research, innovation, and progress in addressing emerging contaminants of concern and new regulatory requirements.

NEAR TERM	MID TERM	LONG TERM
Develop research, mitigation, response plans and management tools to address highest priority climate-induced water quality impacts such as: • Increased Salinity • Elevated Turbidity and Pollutant Concentrations • Increased Nutrient Pollution • More Frequent Reservoir Anoxia • Increased Chlorine Demand and Microbial Activity		
Update nitrification action plan and response indicators by end of 2025	ction plan and Implement new tools and infrastruesponse indicators by to minimize climate impacts on w	

Time-Bound Targets: Imported Water Source Resilience

### **Imported Water Source Resilience**

Investment in protecting source watersheds and existing infrastructure to reduce risks presented by accelerated climate change.

NEAR TERM	MID TERM	LONG TERM
Participate in pilot projects to assess watershed resilience strategies and their benefits to protecting water supply	evelop and implement a program for supporting t rotection of source watersheds from climate char riven risks to water supply.	• • • •





#### GUIDANCE FOR BUSINESS MODEL REVIEW AND REFINEMENT AD HOC WORKING GROUP

- TO: GENERAL MANAGERS, Metropolitan Member Agencies
- FR: ADAN ORTEGA, Board Chair GAIL GOLDBERG, Board Vice Chair for Finance and Planning MATT PETERSEN, CAMP4W Task Force Chair
- DA: July 22, 2024

#### **Background and Composition**

As part of the Climate Adaptation Master Plan for Water (CAMP4W) Task Force, a business model review and refinement process has begun. The Task Force is working to create a Master Plan for consideration by the MWD Board that considers the impacts of climate change upon water supply and the operations of MWD. As stated in the CAMP4W charter, this necessitates a review and refinement of the MWD Business Model. Therefore, the Task Force is commissioning an ad hoc working group comprised of the general managers of Metropolitan's 26 Member Agencies that will be managed and supported by MWD staff as well as include the MWD Board Chair, Board Vice Chair, Task Force Chair, Task Force Vice Chair and MWD General Manager as ex officio members to participate as needed and available.

#### **Outcomes, Purpose, and Process**

Given the expertise of Metropolitan's Member Agency Managers and their direct experience running the day-to-day operations and finances of their respective agencies, their input into the Business Model review process is essential. While the Task Force is asking for proposals related to specific issues now, there will be opportunities for discussing additional topics later in the process.

Specifically, the Task Force requests a series of "straw person" proposals—at least two and no more than five--for Task Force consideration. Each of these proposals should be grounded in the need to (1) stabilize Metropolitan revenues and (2) embed flexibility and capacity to adapt to climate change and to address the factors noted below of opportunity for Business Model refinement. The final proposals shall be reached by consensus of the working group. If consensus for at least two proposals cannot be reached, the ex officio members will determine which proposals will be presented to the Task Force.

A short progress report will be provided on the work of the ad hoc working group at each monthly Task Force meeting. By November 13, 2024, the final two to five proposals shall be finalized and transmitted to the Task Force for discussion.

To inform the first Business Model Review ad hoc working group meeting in August 2024, MWD staff will produce Business Model Working Memo #1 for review and discussion. The memo will include a description of Metropolitan's current business model along with a draft problem statement. Staff will continue to track progress and memorialize discussions as needed.

#### Factors for Consideration in Final Proposals

In the final two to five "straw person" proposals, the working group shall ensure the following factors and opportunities are considered and reflected:

- 1)Treated Water Cost Recovery (workshops already underway)
- 2)Metropolitan's role in Member Agency local supply development
- 3)Potential Member Agency supply exchange program
- 4)Proportion and components of fixed and volumetric charges
- 5)Conservation program and funding source(s)