



Stakeholder Forums

Draft 2010 Integrated Water Resources Plan Update

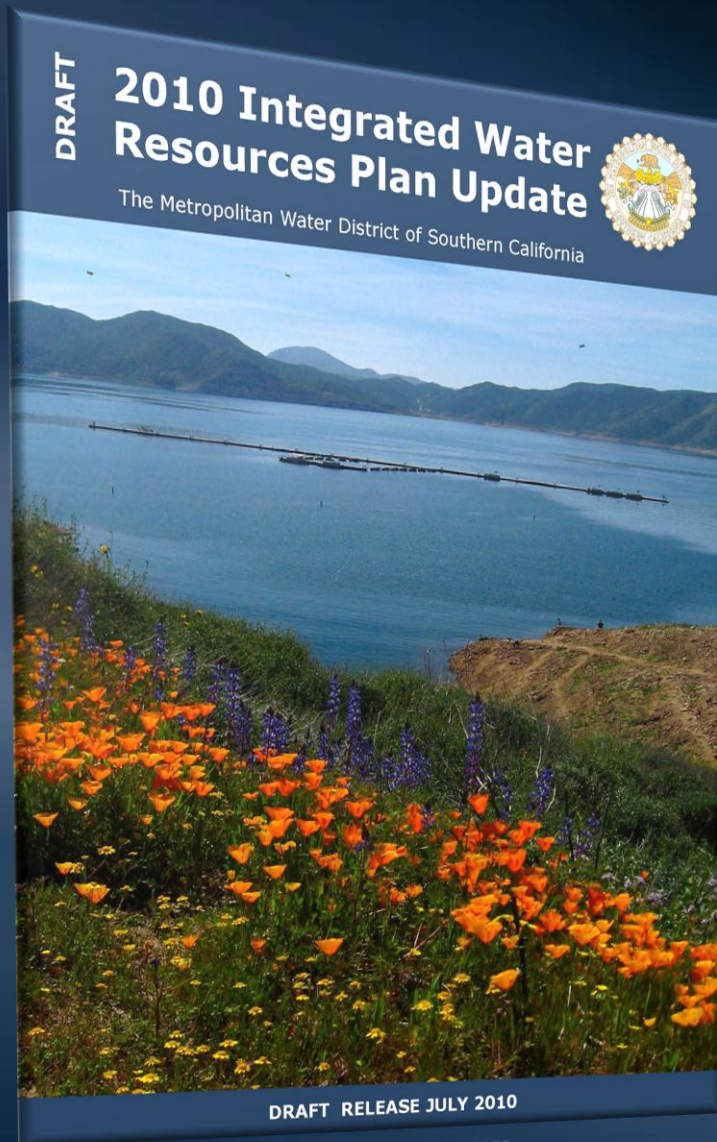
Orange – August 3
Ontario – August 5
San Diego – August 10
Los Angeles – August 12

IRP Stakeholder Forum

Agenda

| | |
|------------|--|
| 9:00 a.m. | Registration |
| 9:30 a.m. | Opening Remarks - Timothy F. Brick, MWD Chairman |
| 9:45 a.m. | Hosting Director's Statement - MWD Board Member |
| 9:50 a.m. | Today's Schedule & Objectives |
| 10:00 a.m. | Metropolitan's IRP Process |
| 10:30 a.m. | 2010 Draft IRP Overview & Findings |
| 11:15 a.m. | Morning Session Recap |
| 11:30 a.m. | Lunch |
| 12:30 p.m. | Draft IRP Survey Results |
| 12:45 p.m. | Q&A and Comments |
| 1:45 p.m. | Session Recap and Next Steps |
| 2:00 p.m. | Forum Adjourns |

Forum Objective



The objective of this forum is to present Metropolitan's Draft IRP resource strategy and to hear Stakeholder input and feedback

Metropolitan's IRP Process



Metropolitan Water District of Southern California

The Mission of the Metropolitan Water District 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.



Introduction: Metropolitan Water District of Southern California



- Regional Water Wholesaler to 6 counties
 - 5,200 square miles
- 26 Member Agencies
- 37 Member Board
- 18+ million residents
- Owns and operates:
 - 5 regional treatment plants
 - 14 dams and reservoirs
 - 16 hydroelectric plants
 - 770 miles of pipelines, feeders and canals
- Regional economy: \$800+ billion
- Provides about ½ of retail demands

Sources of Water for Southern California



Integrated Resources Plan Supply Reliability Goal

1996 IRP and 2004 IRP Update:

“Through the implementation of the IRP, Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions”

1996 IRP

- Established a reliability planning objective
- Set a preferred mix of resource targets
- Utilized collaborative stakeholder process

2004 IRP Update

- Reaffirmed objectives
- Adjusted for changed conditions
- Updated resource targets through 2025
- Introduced Buffer Supply

Managing Future Challenges



**Emerging Water
Quality Issues**



**Endangered
Species**



Energy Costs



Capital Financing



Climate Change

Regional Stakeholders Came Together to Discuss Integrated Planning

Board Oversight

IRP Steering Committee

Technical
Process

Public
Forums

Stakeholder
Forums

IRP Steering Committee

- Purpose/Goals
 - Recommend policy options
 - Review planning approaches
 - Review resource strategy
 - Receive input from stakeholder forums, public forums and technical workgroups

2008 Stakeholder Forums

- Over 550 participants engaged in four half-day workshops
- Key Messages:
 - Need new strategies
 - Address new development
 - Will pay for reliability and quality
 - Form strong partnerships

Technical Workgroups

- Groundwater – ongoing facilitated workgroup
- Recycled water
- Conservation
- Stormwater/urban runoff
- Seawater desalination
- Graywater

Technical Workgroups

- Collaborate with member and local agencies on groundwater resources, local resource development, and regional supplies
- Discuss technical approaches
- Collect, review, reconcile data
- Develop issue papers as needed
- Technical workgroups were scheduled on an as-needed basis

Examples of Project Information Collected:

- Water savings (and hydrologic variability)
- Cost (capital and O&M)
- Water quality (e.g., salinity)
- Energy consumption
- Implementation challenges
- Other (depending on project type)

Strategic Policy Review Process



A Number of Possible Roles Were Considered for Metropolitan

Current Approach

- Maintain & develop resources
- Provide local resource incentives
- Complete Delta improvements

Imported Focus

- Reduce role in regional reliability
- Improve Delta ecosystem/conveyance
- Develop dry-year Colorado River supplies

Enhanced Regional #1

- Maintain & develop resources
- Delta improvements not completed
- Develop large-scale local projects

Enhanced Regional #2

- Maintain & develop resources
- Develop large-scale local projects
- Complete Delta improvements

Evaluation of Metropolitan's Regional Role

| Components | Current Approach | Imported Focus | Enhanced Regional #1 | Enhanced Regional #2 |
|---|------------------|----------------|----------------------|----------------------|
| Delta Fix | ✓ | ✓ | | ✓ |
| Local Resources and Conservation Incentives | ✓ | | ✓ | ✓ |
| New MWD Regional Supplies | | | ✓ | ✓ |

Draft 2010 IRP Released in July

- Emphasizes need for regional reliability
 - MWD and Member Agency Interdependency
- Calls for a buffer of additional in-region supplies and water use efficiency
- Expanded Regional Approach
 - MWD should collaborate with local agencies and consider partnerships or ownership of in-region supplies to ensure reliability
- The 2010 IRP is an adaptive plan

Next Steps in the IRP Process

- ✓ Develop Proposed Plan
- Complete Stakeholder Forums
 - ✓ August 3: Orange
 - ✓ August 5: Ontario
 - August 10: San Diego
 - August 12: Los Angeles
- August IRP Steering Committee
 - Review feedback from Stakeholder Forums
- On-going: Member Agency feedback
- September - Second Board Workshop
- October - Board consideration to adopt plan





Stakeholder Forums

2010 Draft IRP Overview and Findings

Orange – August 3
Ontario – August 5
San Diego – August 10
Los Angeles – August 12

Overview

- Draft IRP Report Overview
- Existing Resource Development and Reliability
- Proposed 2010 IRP Strategy
 - Core Resource Strategy
 - Supply Buffer
 - Foundational Actions

Draft IRP Report Released July 2, 2010

Section 1 History, Background and Status

Section 2 Developing a Collaborative Regional Process

Section 3 Integrating a Policy Approach for Metropolitan's Roles

Section 4 Core Resources Strategy

Section 5 Making an Adaptive Management Approach Work

Section 6 Findings and Conclusions

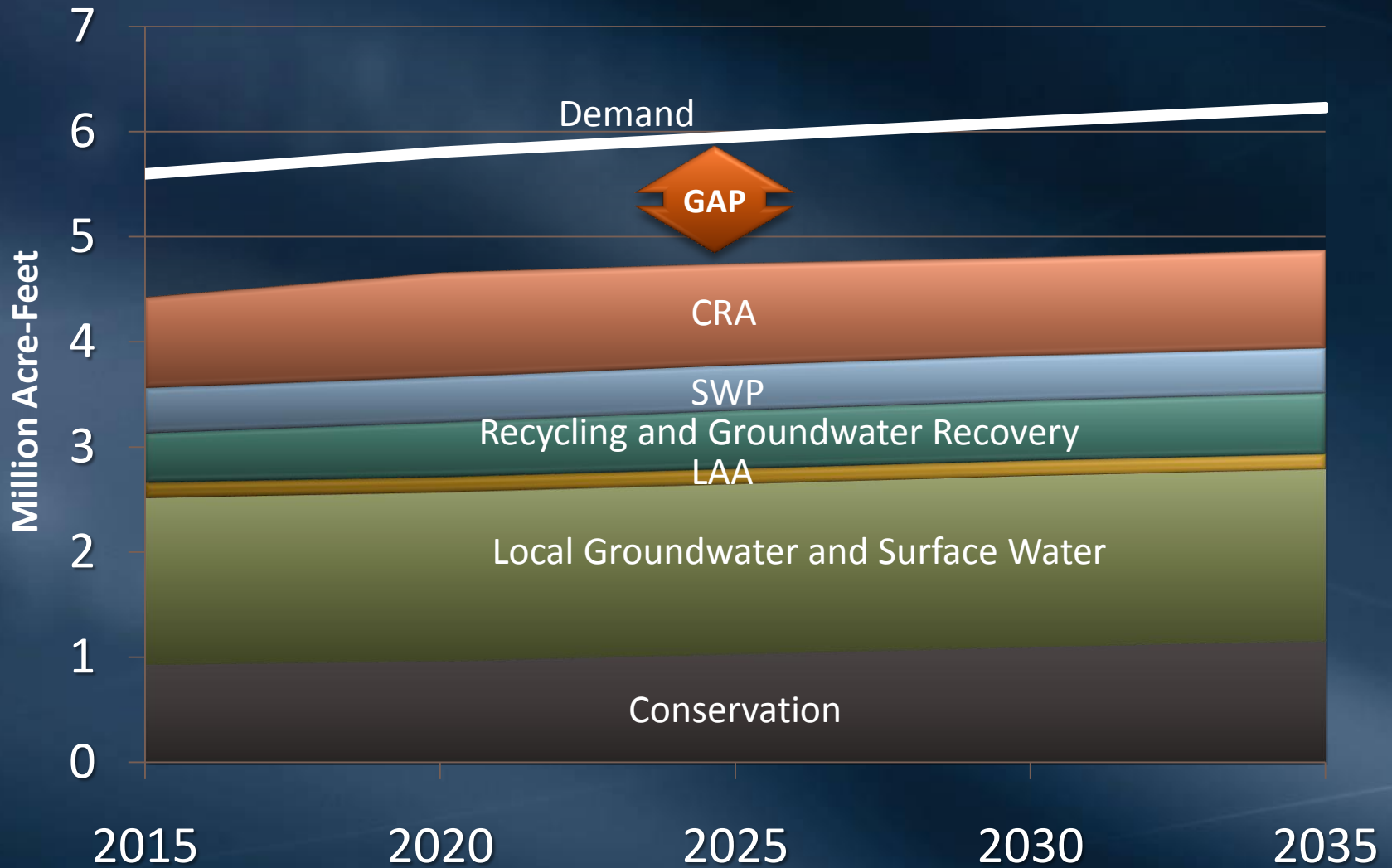
Existing Resource Development and Reliability



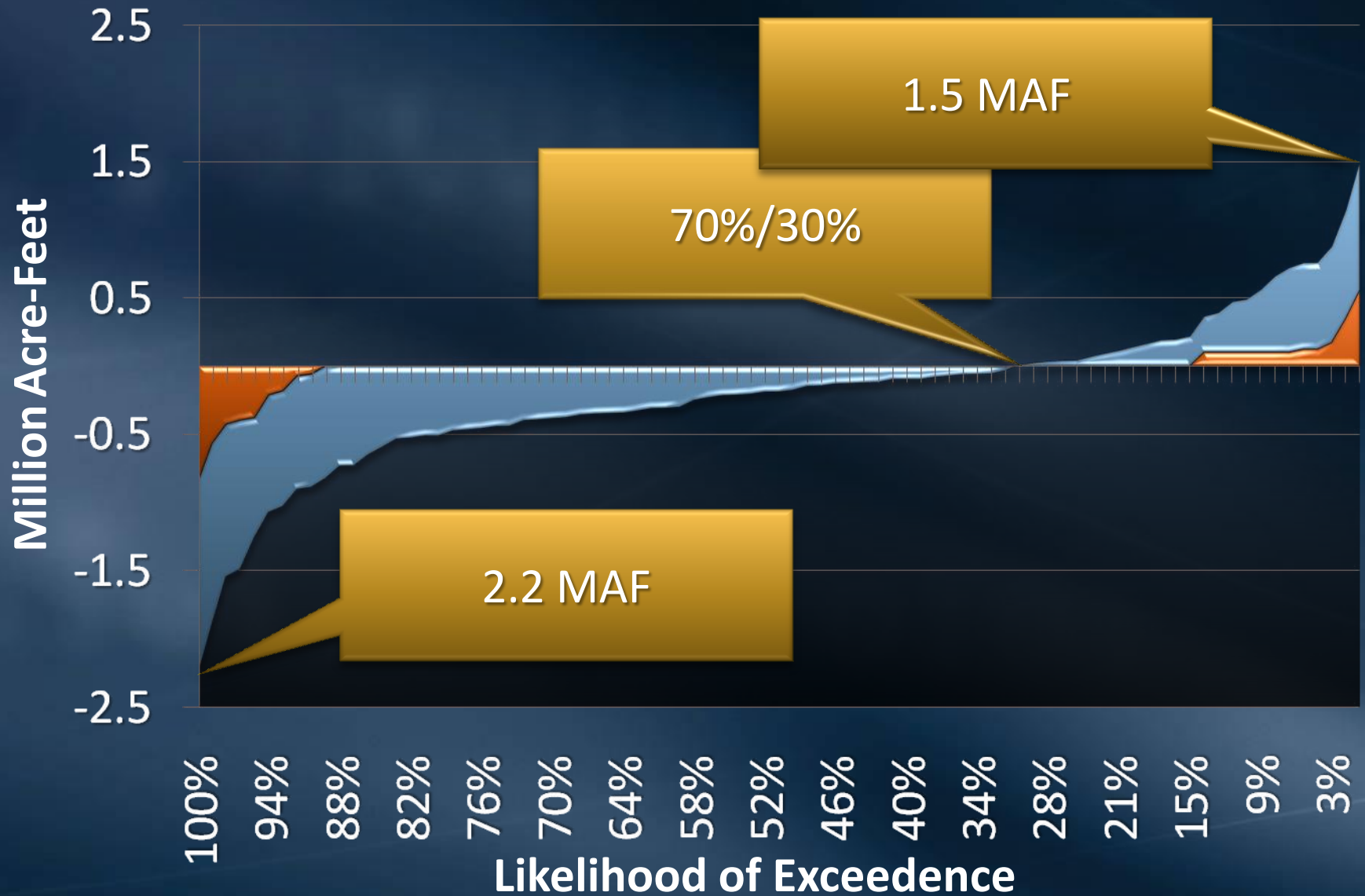
Sources of Water for Southern California



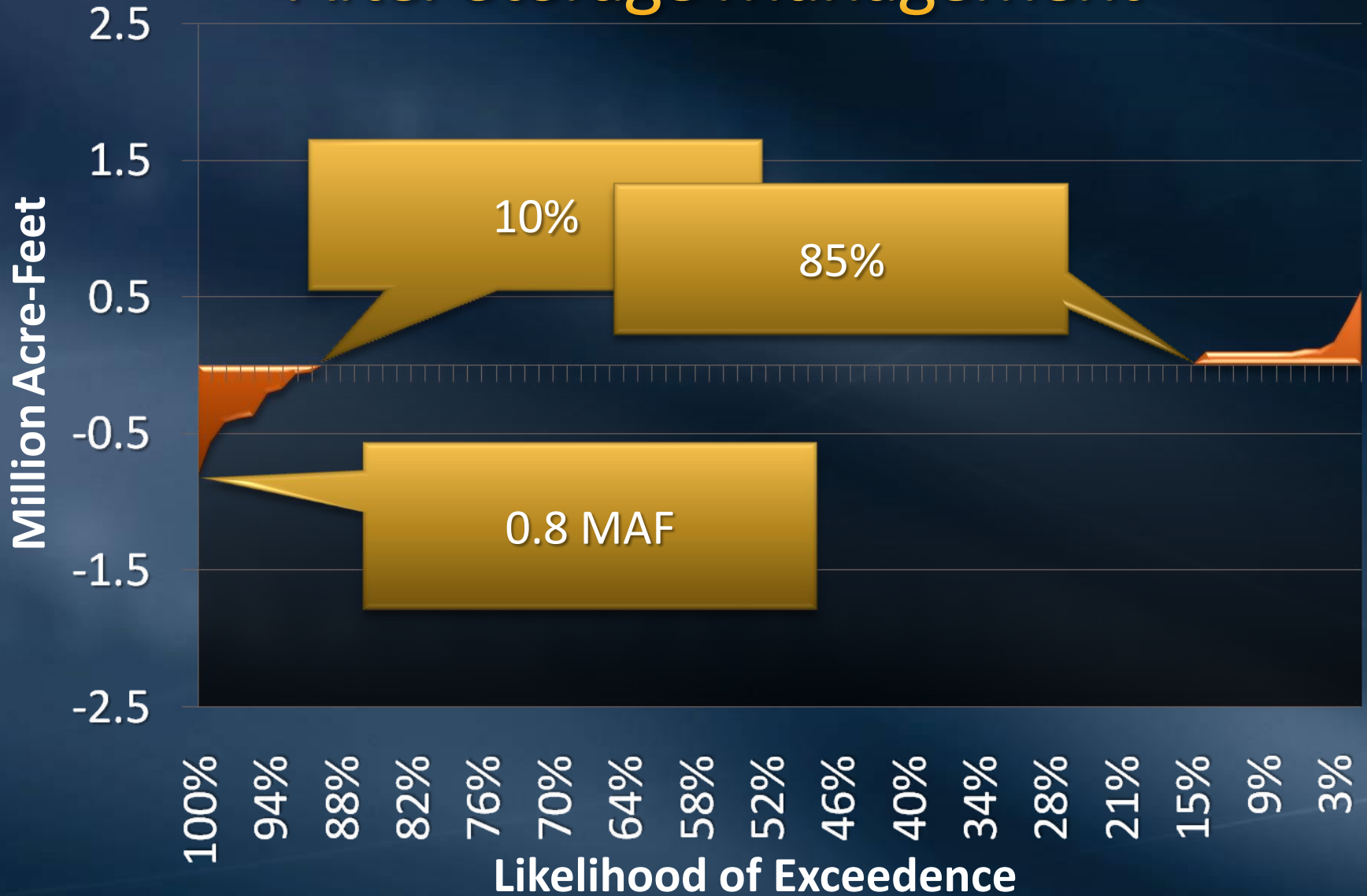
A Supply Gap Would Exist in Dry Years Under Existing Resource Development



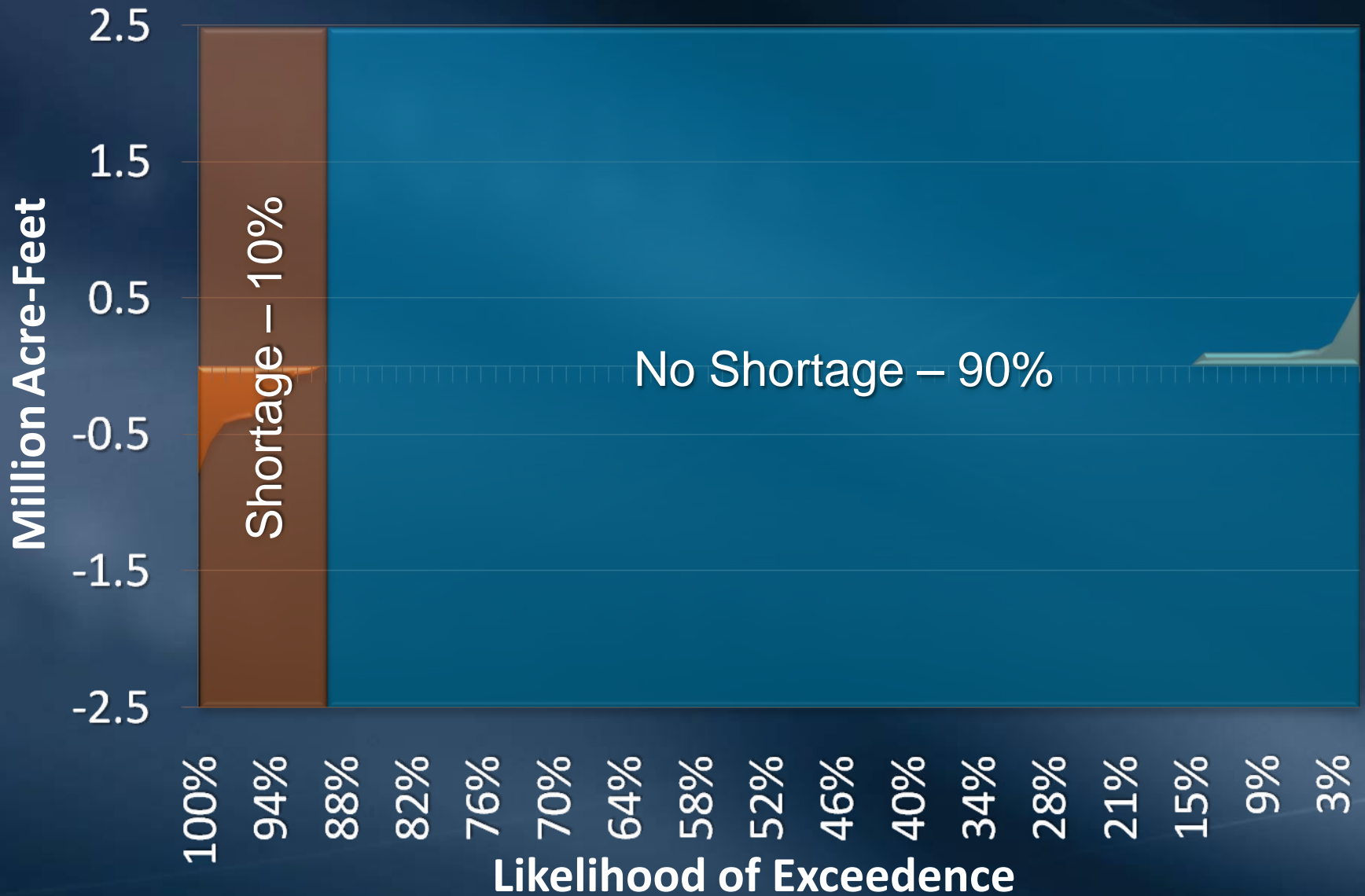
2015 Reliability With Existing Resources



2015 Reliability With Existing Resources After Storage Management

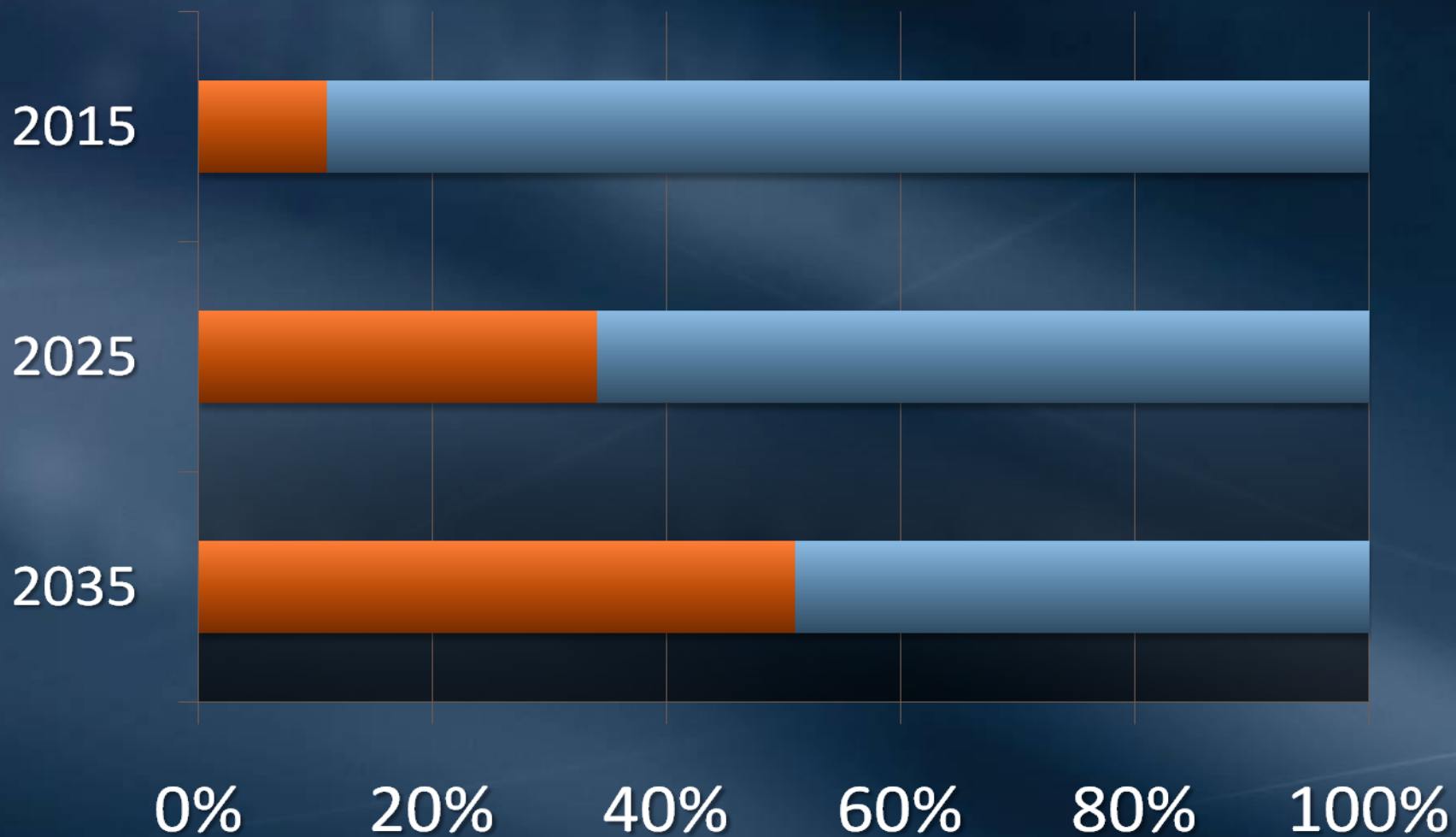


A Roughly One in Ten Chance Of Shortage

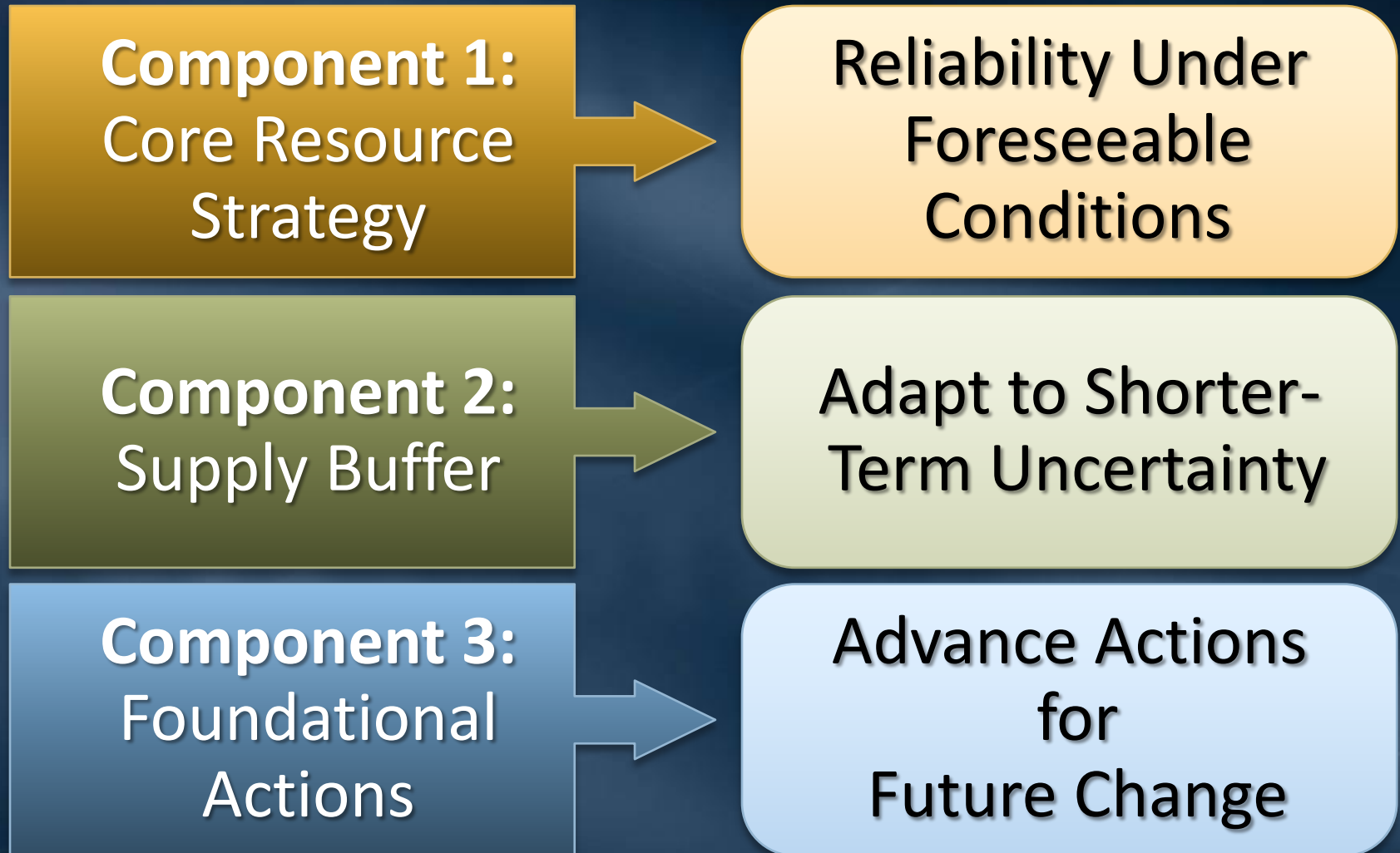


Without Further Investment, Reliability Would Get Worse

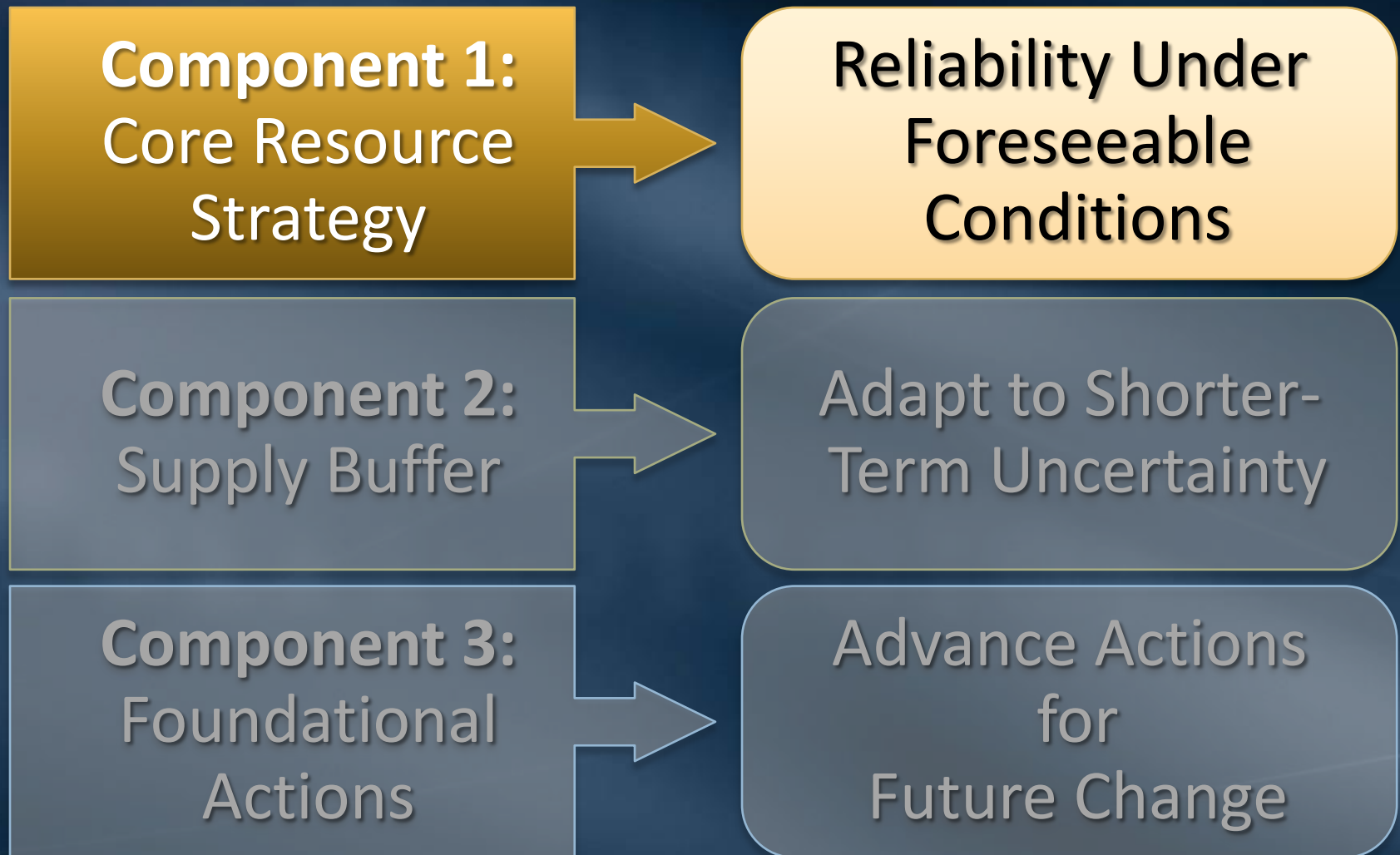
■ Shortage ■ No Shortage



Proposed IRP Strategy



Proposed IRP Strategy



Component 1: Core Resources Strategy

Water Use Efficiency

- 20% by 2020 Retail Compliance
- Continue Existing Programs

Local Resources

- Incentives and Partnerships
- Continue Existing Programs

SWP

- Delta Improvements
- Continue Existing Programs

CRA

- Develop Dry-Year Supply Programs
- Continue Existing Programs

Water Use Efficiency Targets

Meeting 20% by 2020 Retail Compliance



Local Resource Targets

Increasing Local Yield



State Water Project Targets

Complete Delta Improvements



Colorado River Aqueduct Targets

A Full CRA In Dry Years



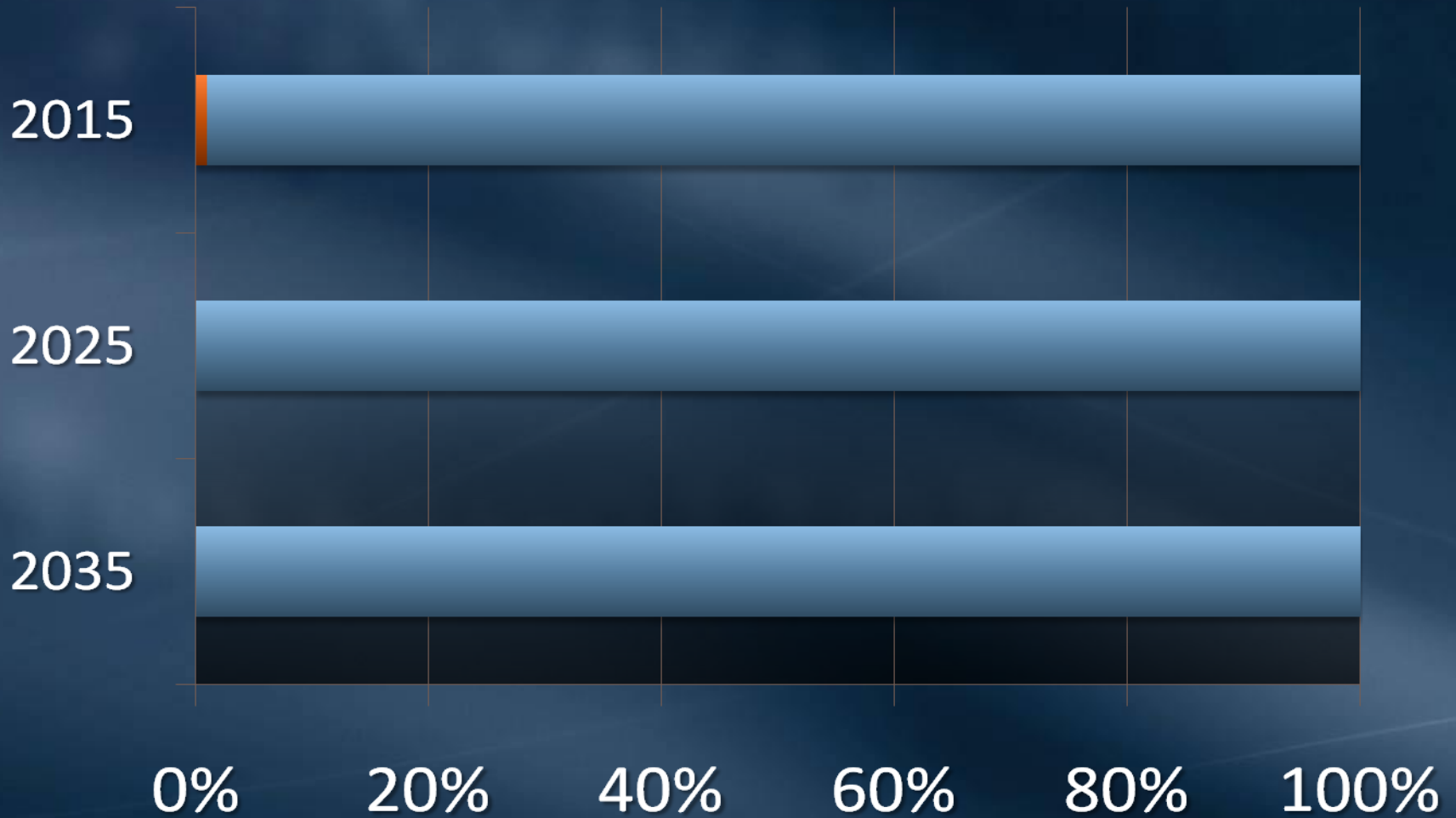
Core Resource Strategy Targets

Total Production (Thousand Acre-Feet)

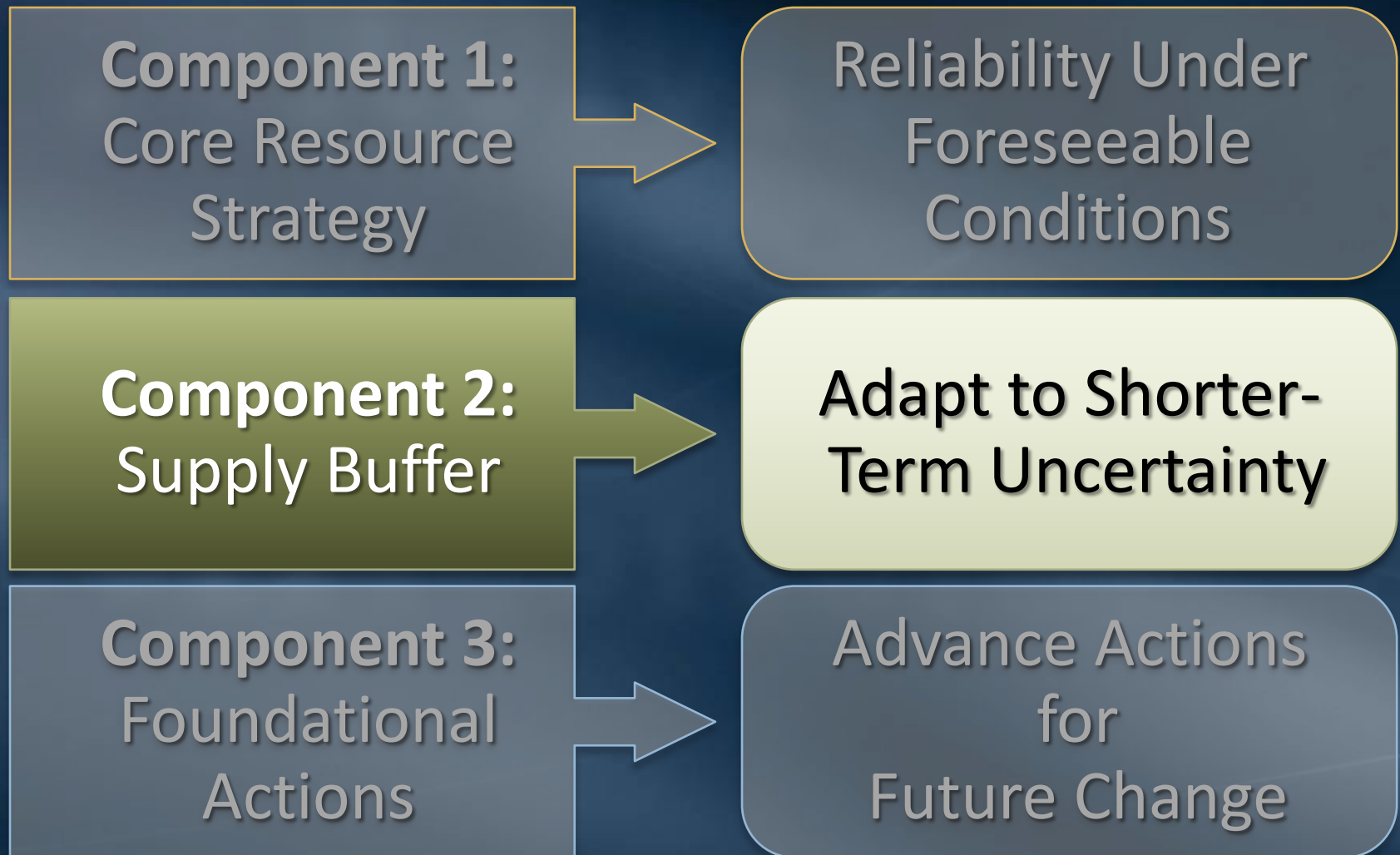
| | 2015 | 2020 | 2025 | 2030 | 2035 |
|------------------------------|--------------|--------------|--------------|--------------|--------------|
| Water Use Efficiency | 1,473 | 1,732 | 1,825 | 1,899 | 1,968 |
| Local Resources Augmentation | 194 | 208 | 246 | 250 | 252 |
| SWP Dry-Year Supply | 581 | 581 | 713 | 713 | 713 |
| CRA Dry-Year Supply | 1,250 | 1,250 | 1,250 | 1,250 | 1,250 |
| Total | 3,498 | 3,771 | 4,034 | 4,112 | 4,183 |

Reliability Improves with the Core Resource Strategy

■ Shortage ■ No Shortage



Component 2: Supply Buffer



Shorter-Term Uncertainties

- Operations & Water Quality
 - Endangered Species Act restrictions
 - Loss or reduction of existing supplies
 - Implementation risk of planned supplies
- Demand Side
 - Economic activity/recovery
 - Water use
 - Extreme weather events

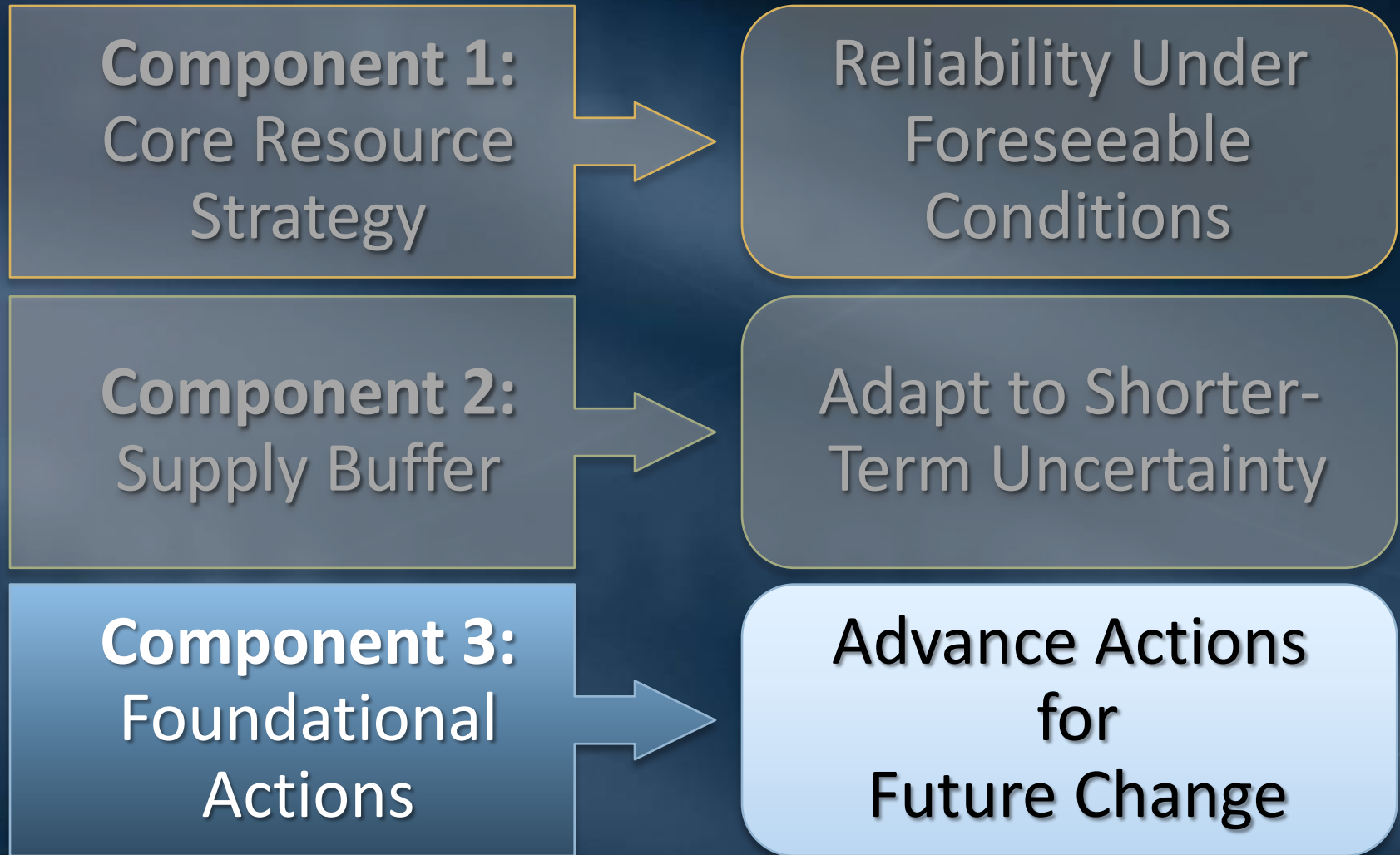
Having a Supply Buffer Can Manage Shorter-Term Uncertainty

- Water Use Efficiency: Up to 200 TAF additional (Inc. Conservation and Recycling)
 - Create a goal to reduce regional per capita water use by 20% from a baseline
 - Saves an additional 200 TAF above retail compliance with 20% by 2020 requirements
- Local Resources: Up to 300 TAF additional (Inc. GW Recovery, Desalination, etc.)
 - Investigate regional partnerships for local resource development
 - Review incentive programs and rate impacts
 - Bring new projects forward for Board consideration as required and as feasibility is assessed

Benefits of Having a Supply Buffer

- Provides available insurance supplies
- Augments storage reserves
- Provides additional reliability without increasing reliance on imported supplies

Component 3: Foundational Actions



What are Foundational Actions?

- Low regret planning and mitigation actions
- Actions that present minimal cost-risk
- Actions that provide an adaptive approach to managing longer-term uncertainties
 - Projects can be implemented more quickly when needed
 - Implementation is tied to triggers

Longer-Term Uncertainties

- Operations & Water Quality
 - Endangered Species Act restrictions
 - Permanent losses of existing and planned supplies
 - Water treatment regulation changes
- Demand Side
 - Growth and development patterns
 - Economy
- Climate Change

Foundational Actions

Areas

Recycled Water

Seawater
Desalination

Stormwater

Graywater

Processes

Integration

Public Perception

Legislation

Procedural

Funding

Operational

Example Foundational Actions

- Integration

- Regional Recycled Water Facility Plan
- Regional Seawater Desalination Feasibility Study

- Public Perception

- Recycled Water Educational Campaign
- Stormwater Education Program

- Legislation

- Seawater Desalination Regional Synergy Task Force
- Stormwater Legislative Task Force

Example Foundational Actions

● Procedural

- Regional Recycled Water Permitting and Inspection Work Group
- Regional Stormwater Policy Task Force

● Funding

- Seawater Desalination Funding Strategy
- Stormwater Funding Strategy

● Operational

- Recycled Water Regional Salt Management Plan
- Desalination Marine Life Protection Plan

The Plan Extends Reliability Goals and Planning

The Core Resources Strategy ensures:

That “Metropolitan and its member agencies will have the full capability to meet full-service demands at the retail level under all foreseeable hydrologic conditions.”

Implementation of a Buffer ensures:

That additional resources will be developed to effectively manage new challenges and change

Foundational Actions ensure:

That Metropolitan and its member agencies can advance low regret actions to develop new supply options as needed to address future changes

Questions?

Component 1:
Core Resource
Strategy

Reliability Under
Foreseeable
Conditions

Component 2:
Supply Buffer

Adapt to Shorter-
Term Uncertainty

Component 3:
Foundational
Actions

Advance Actions
for
Future Change



IRP Draft Report Online Survey



THE METROPOLITAN WATER DISTRICT
of SOUTHERN CALIFORNIA

Stakeholder Feedback on Draft IRP Report

As you review the draft Integrated Resources Plan (IRP) Report, please provide your feedback by responding to the questions below. We encourage you to submit comments by 5:00 p.m. on August 20th (Extended Date). Your comments will help determine the focus of the agenda at the upcoming IRP Stakeholder Forums in August. If you have not yet submitted your RSVP to one or more of the forums, and you wish to attend, [Click here to register.](#)

Reference materials in the questions below can be accessed on this link to the [IRP Web page.](#)

Please tell us how much you agree or disagree with the following statements.

1. The draft IRP report has identified the range of potential options for future water supply development. (Draft IRP Report Section 2)

- Strongly Agree
- Agree
- Somewhat Agree
- Disagree
- Strongly Disagree

Comment(s):

2. The draft IRP report demonstrates the importance of conservation and water use efficiency. (Draft IRP Report Section 3)

- Strongly Agree
- Agree
- Somewhat Agree
- Disagree
- Strongly Disagree

Comment(s):

ONLINE SURVEY:
www.mwdh2o.com/irp



Next Steps in the IRP Process

- ✓ Develop Proposed Plan
- Complete Stakeholder Forums
 - ✓ August 3: Orange
 - ✓ August 5: Ontario
 - ✓ August 10: San Diego
 - August 12: Los Angeles
- August IRP Steering Committee
 - Review feedback from Stakeholder Forums
- On-going: Member Agency feedback
- September - Second Board Workshop
- October - Board consideration to adopt plan