





Presentation Overview

- Technical Recommendations
- Reliability Discussion
- Next Steps



Summary of Key Technical Findings

- Additional local supply and conservation development is needed to mitigate SWP risk
 - 200 TAF total per year in conservation and local resources
 - Need additional policy discussion on how to ensure local supply target is reached (accounting for risk)
- Stabilizing imported supplies continues to be critical
 - Provide every-year core supplies
 - Maximize use of regional storage resources
- A comprehensive water transfer approach can address shorter-term reliability challenges
- Implementation policy and approach to developing local supplies and conservation is key

IRP Technical Recommendations Colorado River Aqueduct

- Stabilize CRA base supplies against risks from growing demands, drought, etc.
 - Develop sufficient base supply programs to ensure 900 TAF of diversions
- Maintain flexibility in CRA dry-year programs and storage
 - Ensure access to 1.2 MAF of supplies in dryyears



IRP Technical Recommendations State Water Project

- Manage flow and export regulations in the near-term
 - Continue to engage in collaborative science-based approaches
- Pursue a long-term Delta solution
 - Continue active participation in the California WaterFix and the California EcoRestore efforts



IRP Technical Recommendations Conservation

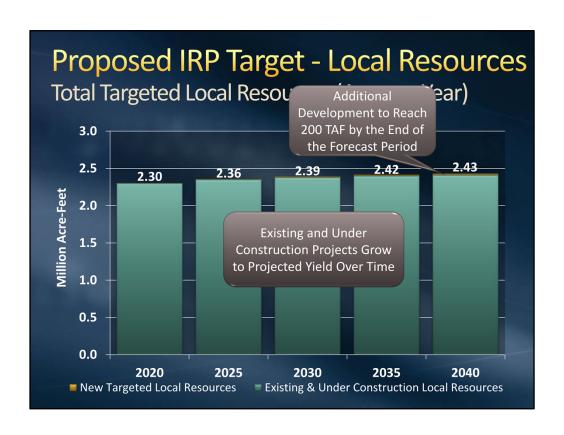
- Meet regional 20x2020 GPCD reduction
- Pursue additional conservation in support of the State's Model Water Efficient Landscape Ordinance
 - Attain 100% compliance for new construction
 - 1% annual replacement rate for existing homes and businesses
- Continue device-based programs for residential, commercial and industrial





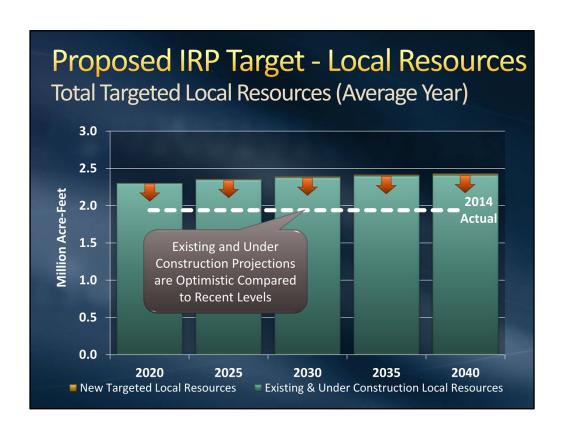
IRP Technical Recommendations Local Resources

- Develop additional local supplies to meet growth and ensure adequate storage reserves
 - Pursue additional recycling, groundwater recovery, and seawater desalination
- Develop additional local supplies to reduce needs for imported replenishment
 - Expand opportunities for groundwater recharge from stormwater and recycling



Sources of Potential Risk to Local Supplies

- Climate change impacts to groundwater recharge or surface supplies
- Water quality impacts to groundwater or other supplies
- Implementation risk to facility expansions
- Infrastructure maintenance risks

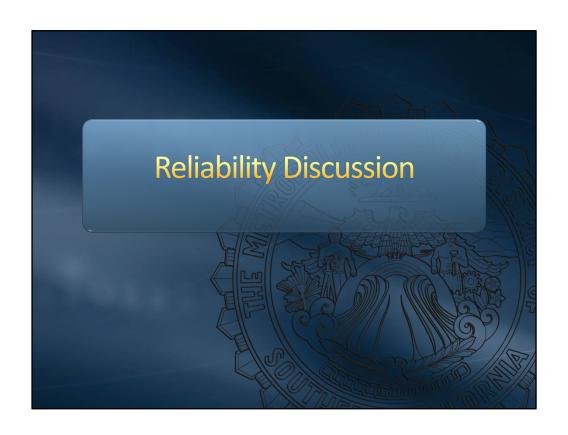




IRP Technical Recommendations

Transfers and Exchanges

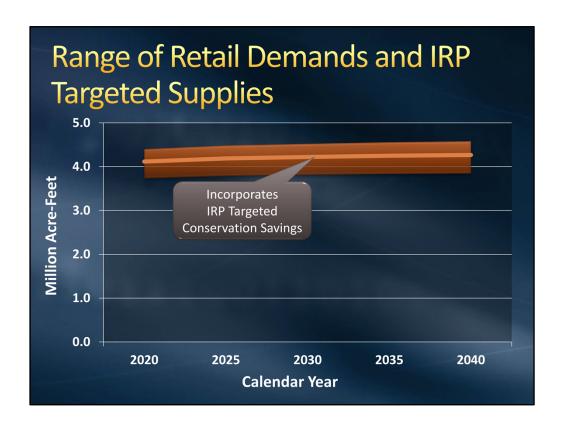
- Develop a comprehensive transfers and exchanges strategy
 - Focus on obtaining additional supplies in normal and wet years
- Ensure strategy works in conjunction with Metropolitan and local storage





What is the Purpose of Reliability Analysis?

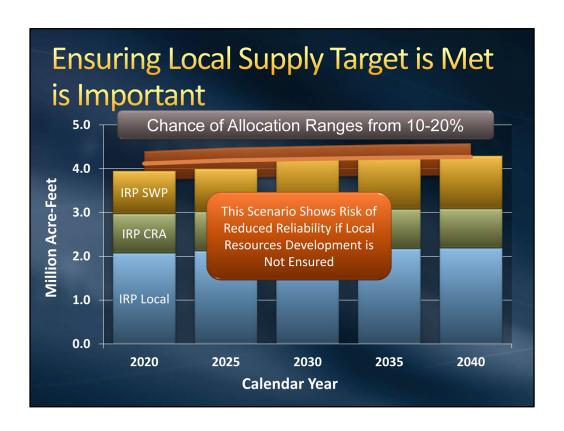
- Evaluates whether a supply mix meets demands in a manner consistent with reliability goals
- Serves as a test case
 - Tests supply and demand forecasts
 - Test ranges and variability due to climate and hydrologic factors sampled from 1922-2012
- Shows how many times out of 91 that there is no shortage, and what the resulting storage conditions are



520 TAF Level 3-5

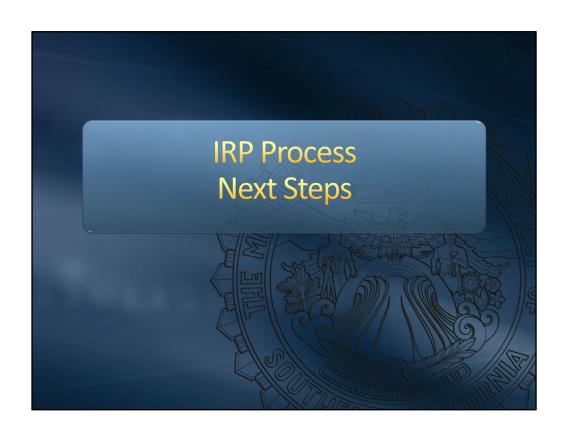


820 TAF in 2020 Level 6-8



Another factor is **climate impacts**, we will see this in a number of places as we go through this presentation.

Forecast is not just a average, range, not just min- max either, we look at 90 different climate effects in each year of the forecast



Upcoming Technical Process Activities November-December 2015

- IRP Technical Process November
 - Report Drafting
- IRP Committee Meeting December 8th
 - Consider 2015 IRP Technical Update
- IRP Committee 2016
 - Begin policy discussion

