

Adaptive Resource Options

IRP Steering Committee

May 11, 2010

Item 3a

Adaptive Resource Options

- Conservation
- Recycled Water
- Graywater
- Stormwater
- Groundwater
- Seawater Desalination

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Review of Technical Workgroup Findings

- Goal of Workgroups:
 - Provide existing and potential inventory
 - Develop technical issue papers

Seawater Desalination

Overall

- MWD considering seawater desal since 1960s
- 2004 IRP Update target: 150,000 AFY by 2025
- 2005: Incentive agreements for \$250/af
 - Five member agency projects: 142,000 AF
- MWD has maintained a regional facilitator role

Opportunities

- New locally controlled supply
- Drought and climate proof
- Reduces need for imported supply and infrastructure
- Improves water quality
- Technical advances are continuing to reduce energy consumption and cost
- New intake/outfall technologies can reduce environmental impacts

Project Status

Metropolitan Seawater Desalination Program	TAF	Status	Contract	Lifetime Incentives (Millions)
Long Beach	10	Pilot study	Yes	\$62
South Orange County	16 to 28	Pilot study	Yes	\$175
SDCWA - Carlsbad	56	Permitting	Pending	\$350
West Basin MWD	20	Pilot study	Yes	\$125
TOTAL	102 - 114			\$887
Other Potential Projects Under Consideration				
Huntington Beach	56	Permitting	No	
Camp Pendleton	56 to 168	Feasibility	No	
Rosarito Beach*	28 to 56	Feasibility	No	
Carlsbad*	11 to 22	Planning	No	

Challenges

- Cost
 - Capital
 - Energy
- Permitting and environmental
 - Permits: over 20 required
 - Intake, discharge and greenhouse gas impacts
 - Private ownership
- Integration
 - Siting: co-location
 - Distribution and water quality

Workgroup Recommendations

● Cost

- Secure funding to research and develop more cost effective technologies
- Acquire sites near existing power plants to reduce future costs

● Permitting and environmental

- Streamline permitting processes by centralizing permitting to one agency
- Create joint work shares between desalination experts and regulatory agencies
- Establish active partnerships with environmental groups

