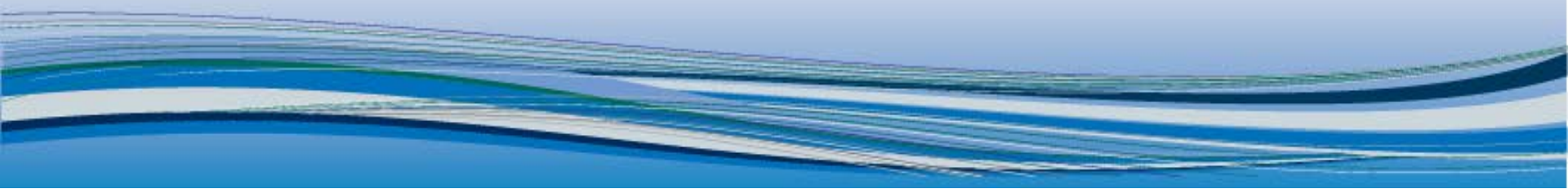




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# Orange County Water District

**John Kennedy – Executive Director of Engineering & Local Resources**  
**[Jkennedy@ocwd.com](mailto:Jkennedy@ocwd.com)**





# The Groundwater Replenishment System (GWRS)

- New 70-MGD advanced water purification facility
- Takes treated sewer water that otherwise would be wasted to the ocean, purifies it to near distilled quality and then recharges it into the groundwater basin
- Operational since January 2008
- 30-MGD expansion under construction (March 2015)



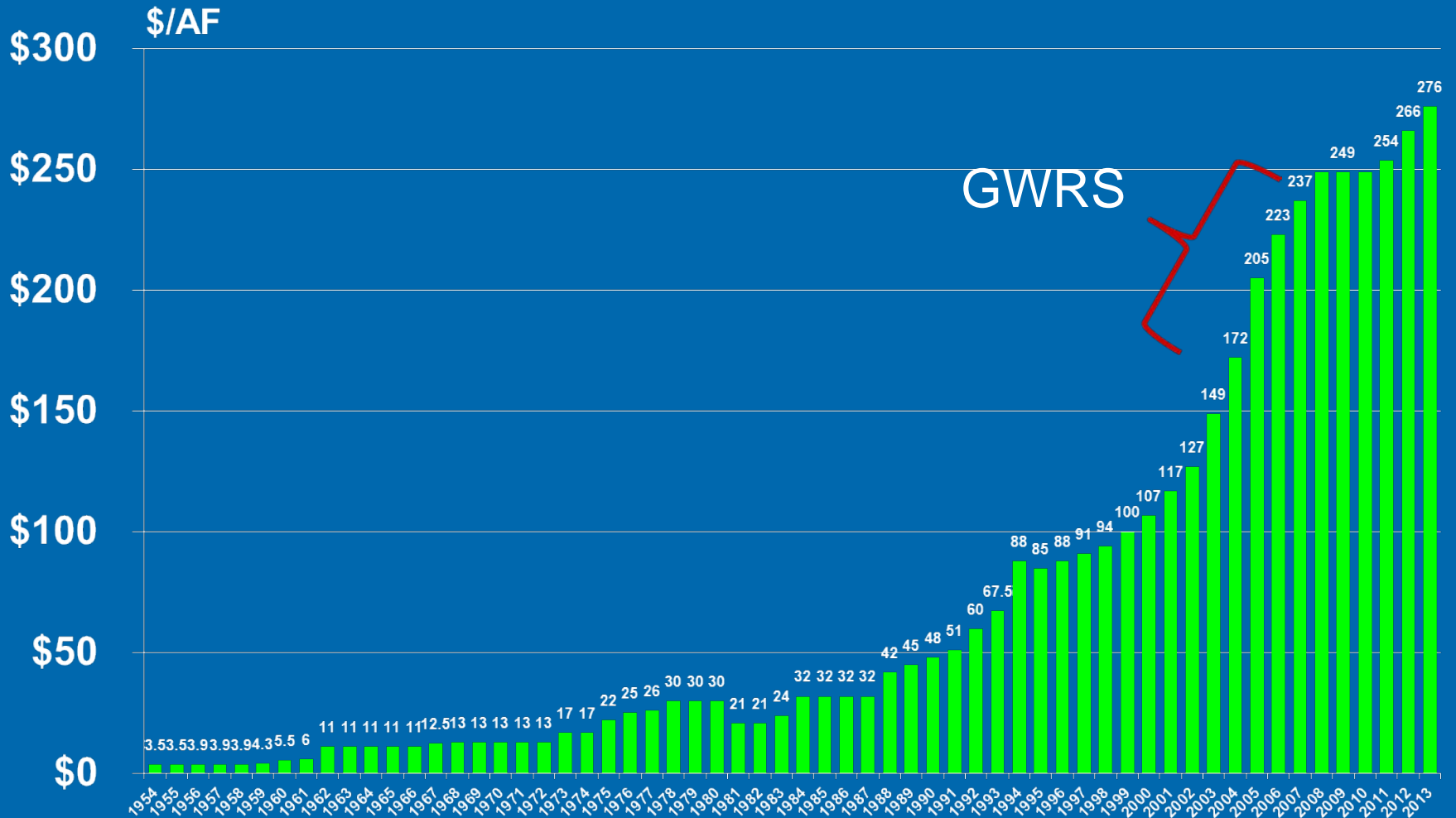


# Project Size and Cost

	Plant Size	Plant Capital Cost	Low Interest State Loan	Percent
Initial Project	70 MGD	\$481 Million	\$135 Million	28%
Plant Expansion	<u>30 MGD</u>	<u>\$142 Million</u>	<u>\$141 Million</u>	99%
Total	100 MGD	\$623 Million	\$276 Million	44%

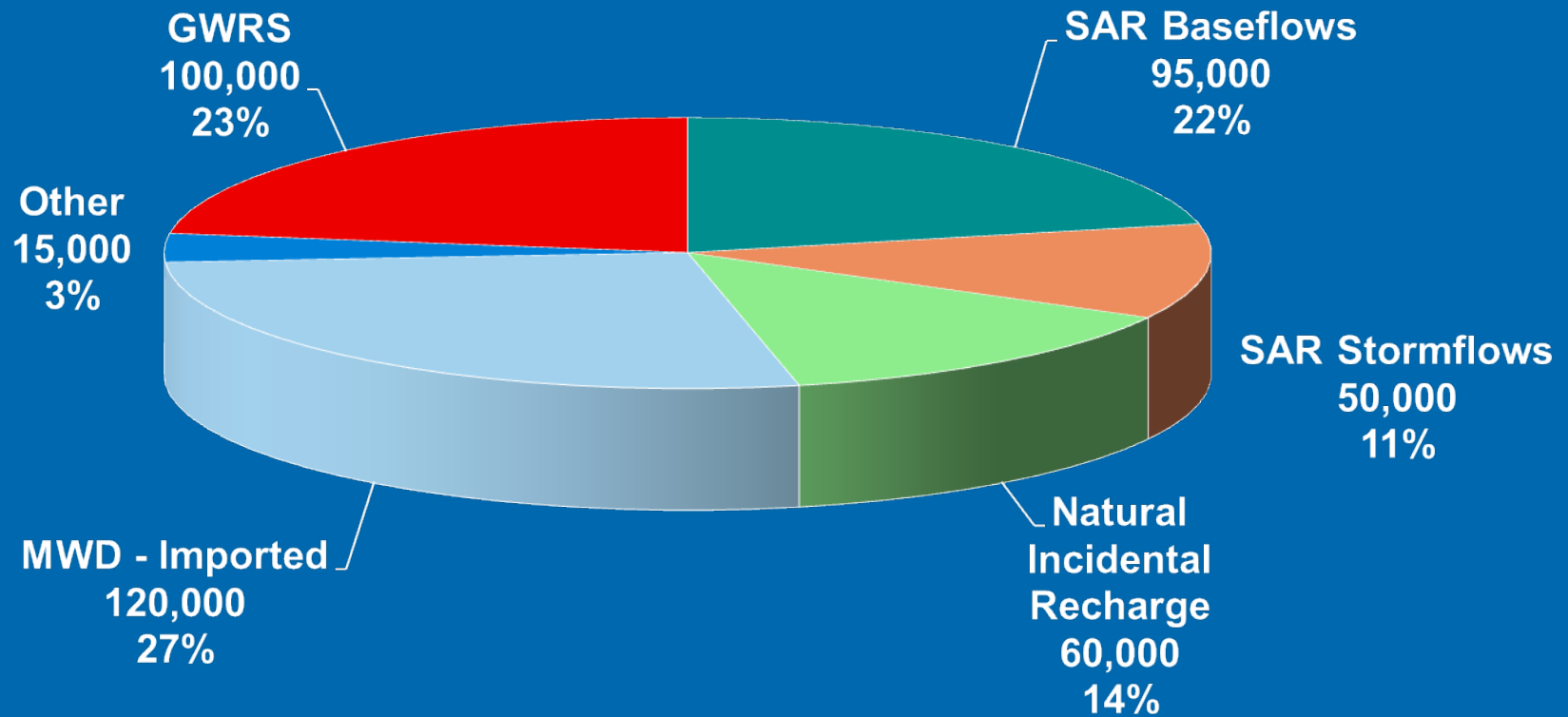


# Replenishment Assessment History





# OCWD Service Territory Water Supply Sources (afy)





# Proposed Huntington Beach Poseidon Resources Ocean Desalination Project

- **New 50-MGD ocean desalination plant**
- **Reduce need for imported water**
- **Capital Cost - \$670 million**
- **OCWD considering partnership with Poseidon to develop the plant**
- **Private activity bonds being used to fund ~82% of project – greater than 5.5% interest rate**
- **Expensive project - \$1,850/af**
- **Cheaper capital would help lower cost**



**End of Presentation**