Water Resource Recovery

Preliminary Treatment → Primary Treatment → Secondary Treatment → Reclaim/Effluent

Influent → Solids Processing → Digester Gas → Energy to Plant

Solids Reuse → Solids Dewatering → Heat → Central Power Generation System Engines
OCSD Focuses on Wastewater as a Resource

- Master planning
- Enhanced source control program
- Flow diversions
- Secondary treatment operations
- Communications
More Water to GWRS,
Less Water to Ocean Outfall

Treated Wastewater to Ocean

Wastewater Recycled
Plan for Resiliency

- GWRS addresses multiple resiliency challenges
  - Drought – more water supply
  - Flood/High Flow – more outfall capacity
  - Seismic – alternate outfall/flow paths

- Resiliency is realized when we take the long view
January 2017 Storms

• OCSD Peak Flows
  • Mar 1, 1983  480 mgd
  • Jan 4, 1995  550 mgd
  • Dec 6, 1997  500 mgd
  • Jan 9, 2005  510 mgd
  • Jan 22, 2017  628 mgd

• GWRS provided 125 mgd of outfall capacity relief
• Emergency standby outfall not activated
• Simplified our operation, protected the beaches