

# COOPERATIVE WATER SOLUTIONS

FOR A SAFE, RESILIENT COMMUNITY

**Leading Utilities of the World**

*Paul A. Sciuto, Executive Officer*



# CENTRAL COAST OF CALIFORNIA

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## **MONTEREY ONE WATER**

A public utility providing wastewater and water reuse services in northern Monterey County

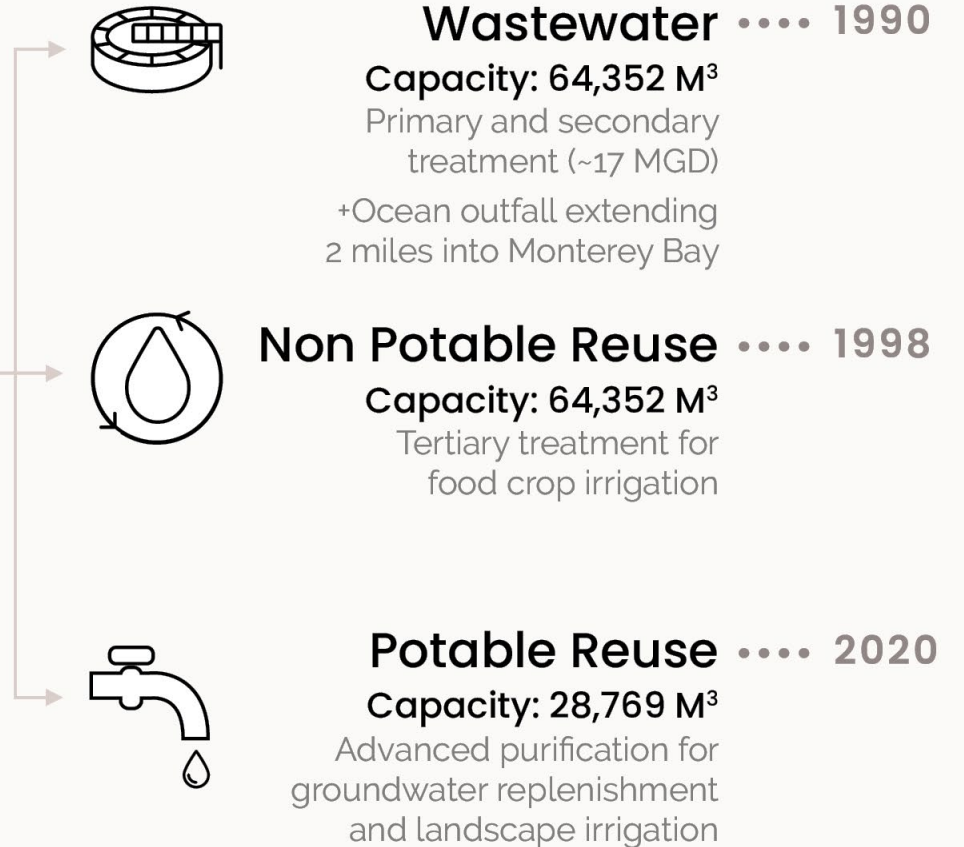


# OUR ROLE

- 10 Members**  
from diverse jurisdictions
- 4 Sources**  
of influent
- 81%**  
of influent is recycled
- 1 of 18**  
national marine  
sanctuaries off coastline



## Providing Cooperative Water Solutions



# INNOVATION AREA

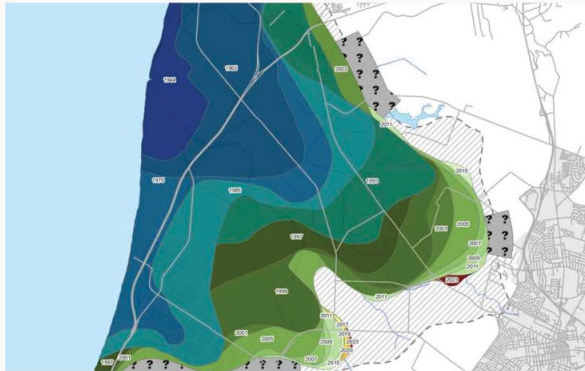
## Water Resource Development

**CHALLENGE:**  
Supply to Demand  
Imbalance



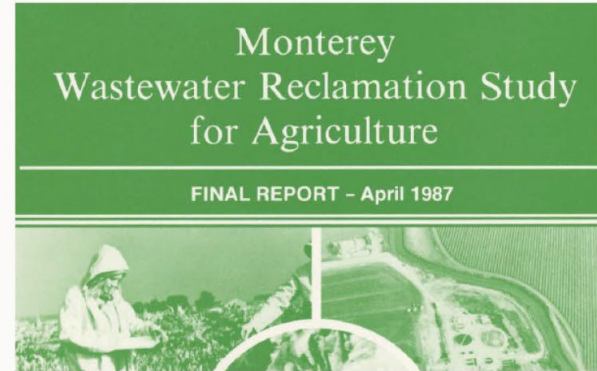
### **Economic Impact of Agriculture**

1970: \$216 million  
2024: \$4.9 billion



### **Seawater Intrusion**

Salinity impacting drinking and agricultural water supply



### **Water Quality**

Grower acceptance of using recycled water for crop irrigation

MONTEREY ONE WATER

# INNOVATION AREA

Water Resource Development

## SOLUTION: Non-Potable Reuse

**Strategy:** Regional Partnership

**Treatment:** Tertiary

**Innovation:** First of its kind; directly edible food crops



**4,856 HECTARES**  
of farmland  
with approximately  
**26 GROWERS**



Supports the County's  
almost **\$5 BILLION**  
international  
agriculture industry



**13 MILLION M<sup>3</sup>**  
of recycled water  
produced for  
conventional and  
organic food crops



# INNOVATION AREA

Response to Scarcity

**CHALLENGE:**  
Legal restrictions  
on supply

**Groundwater:**  
25% of supply



**Surface Water:**  
75% of supply

MONTEREY ONE WATER

# INNOVATION AREA

Response to Scarcity

## **SOLUTION:** **Potable Reuse**

**Strategy:** Multi-partner, multi-benefit

**Treatment:** Advanced purification

**Innovation:** New source waters, first in northern California



**Meets 60%  
of the community's  
water demand while  
protecting traditional  
sources**



**Supports tourism  
economy where visitors  
annually spend  
\$3.1 BILLION**



**7 MILLION M<sup>3</sup>  
of recycled water  
purified for  
groundwater  
replenishment**



# INNOVATION AREA

New Business Development

**CHALLENGE:**  
Rising costs +  
changing climate



## Community Impact

Primary revenue stream is customer fees



## Energy Resilience

Rate impacts from volatile and unpredictable energy costs



## State Objectives

California's short-lived climate pollutant reduction strategy

MONTEREY ONE WATER

# INNOVATION AREA

New Business Development

## SOLUTION: Co-Digestion

**Strategy:** Cross sector approach

**Innovation:** Divert methane-emitting organic waste from landfills for co-digestion, increasing biogas production

**New Revenue Streams:** Tipping fees (receipt of organics) and future sales of commercial grade renewable natural gas (upgrade of biogas)



**Diversion of up to  
46,266 MT  
per year of food waste**



**Est. 13,200 MTCO<sub>2</sub><sub>E</sub>  
reduction in  
GHG emissions from  
diversion of waste**

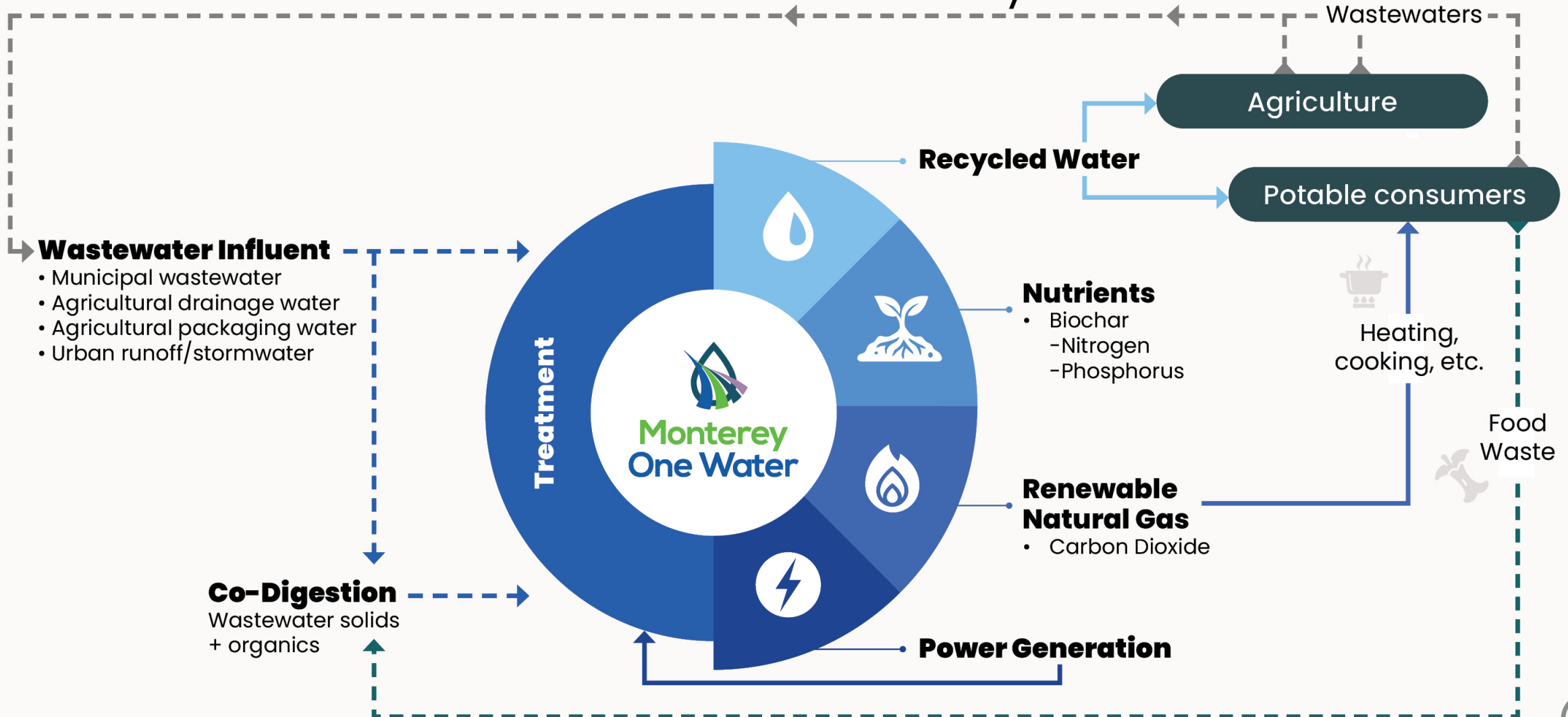


**~50% increase  
in valuable  
biogas production**



# WHAT'S NEXT

## Circular Water Economy



# THANK YOU

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