



**EAST COUNTY ADVANCED WATER PURIFICATION
ENERGY RECOVERY PROJECT
CPRG IMPLEMENTATION GRANTS COMPETITION
APPLICATION COVER PAGE**

Applicant Information:

- East County Advanced Water Purification Joint Powers Authority
- Karen Jassoy, 619-258-4616, kjassoy@padre.org

Type of Application: Individual

Funding Requested: \$9,000,000

Application Title:

East County AWP Energy Recovery Project

Brief Description of GHG Measures:

The East County Advanced Water Purification (AWP) Program will create a new, local, sustainable, and drought proof drinking water supply using state-of-the-art technology to purify recycled water. The Program will treat wastewater locally, reducing ocean discharge and energy for transportation, and produce advanced treated water that will augment surface water supplies and provide up to 30% of East County's water demand.

The East County AWP Energy Recovery Project (Project) is a component of the Program and will reduce Greenhouse gas emissions (GHG) in the region, with a new CHP system to capture and utilize the alternative energy source found in biogas produced within anaerobic digesters located at the AWP solids handling facility. In addition, a new HSW receiving facility will collect and distribute locally sourced food waste slurry to the anaerobic digesters to increase biogas production and reduce dependence on fossil fuel-based energy purchased from San Diego Gas & Electric (SDG&E). Energy recovery results in reduced GHG emissions in two ways: 1) energy produced from sludge generated biogas displaces a similar amount of energy generated from fossil fuels and associated GHG emissions; and 2) processing organic waste in the anaerobic digesters results in reduction of more harmful greenhouse gas emissions, mainly methane, from the decomposition of food waste and also reduces GHG emissions by off-setting GHGs generated from fossil fuel energy production. Additional GHG emission reductions will result from the Program's offsetting demand for imported water and the reduced transportation energy demands.

Sectors:

- Clean Energy
- Water

EXPECTED TOTAL CUMULATIVE GHG EMISSION REDUCTIONS

Estimated cumulative GHG reductions for 2025-2030 (in metric tons):

The project is anticipated to result in the reduction of 23,180 metric tons of GHG emissions from 2025 through 2030.

Estimated cumulative GHG reductions from 2025-2050 (in metric tons):

The project is anticipated to result in the reduction of 116,350 metric tons of GHG emissions from 2025 through 2050.

LOCATION

City: Santee

State: California

APPLICABLE PRIORITY CLIMATE ACTION PLAN (PCAP) ON WHICH MEASURES ARE BASED:

PCAP Lead Organization: San Diego Organization of Governments

PCAP Title: San Diego Regional Priority Climate Action Plan

PCAP Website link:

<https://www.epa.gov/system/files/documents/2024-03/san-diego-regional-pcap.pdf>

List of GHG reduction measures and PCAP page reference for each measure:

W-1 Improve Energy Efficiency of Water System: Pages 23, 24, 25, 38, and 39