

EJCCWRF Benefit Highlight: Growth and Resilience



The Jackson County Utility Authority (JCUA) needs to upgrade our water reclamation / wastewater treatment system. In response, JCUA is partnering with a team of engineers and other experts to plan the design of a new East Jackson County Consolidated Water Reclamation Facility, or EJCCWRF. The new facility will provide for the expanded treatment capacity necessary to effectively manage growth in our community and meet our future wastewater needs, and include a series of technological advances and innovative elements that will provide critical benefits.

This information sheet highlights how the EJCCWRF project will provide the much needed additional capacity to support growth in our communities and make our operations more sustainable and resilient.

Preparing for Growth

With a capacity to treat up to an average of 20 million gallons of water per day, the new facility will meet existing demands and provide capacity for future growth in Jackson County.

The generation of water for industrial reuse and Class A biosolids (described in the Innovations information sheet) both have the potential to generate an ongoing source of revenue – this could offset some portion of treatment and operation costs associated with growth and innovation.



Designing for Resilience

To address the increased frequency and severity of storm events and associated flooding, design of the new facility will incorporate elements to support more resilient operations, even with the likely impacts of changing weather conditions including anticipated sea level rise. The new facility will also be designed to include components that are proven to be energy efficient and have extended life cycles compared to traditional options – this will reduce energy demand, drive efficiency, and minimize replacement costs.



Conserving Resources

Right now, JCUA facilities treat water and then discharge it to local waterways. A key benefit of the new facility will be the capability to sell treated water directly to industry for reuse. The proposed location in the eastern part of Jackson County is near industrial partners who can use the water that will be generated through innovative processes at the new facility. Proximity to existing infrastructure is important to providing a resilient source of process water to industry, which will reduce the industry's demand for surface water from the Pascagoula River. This provides broad ecological benefits all year, but especially during drought seasons when water levels are lower.



Learn More about the Project

The design and construction of the new facility – officially called the East Jackson County Consolidated Water Reclamation Facility, or EJCCWRF – is in the early stages. Visit the project website to learn more about the benefits and participate in the planning of our future wastewater needs.

Did You Know?

Following Hurricane Katrina in 2005, existing treatment facilities were flooded and inaccessible to JCUA operators for several weeks. Interruptions in wastewater treatment has the potential to affect both human health and the environment. The proposed EJCCWRF will be designed to be more resilient, even in the face of the effects from powerful storms.