Innovative Reclaimed Water Project to benefit Miami-Dade County

FPL, in partnership with Miami-Dade County, is developing a state-of-the-art, advanced reclaimed water treatment facility called the FPL Miami-Dade Clean Water Recovery Center (CWRC).

The FPL Miami-Dade CWRC will further treat and reuse up to 15 million gallons per day of reclaimed water from Miami-Dade County for use at the company’s Turkey Point Clean Energy Center, making it one of the largest reuse projects in the state. The innovative FPL Miami-Dade CWRC provides a cost-effective way to reuse and recycle a resource that would otherwise be discarded. Additionally, this innovative project will help the Sunshine State meet a key objective in using more reclaimed water, which is an integral part of water resources, wastewater and ecosystem management in Florida. This project is a win-win for the county, the environment and FPL customers as it helps improve the resiliency of the Turkey Point Clean Energy Center as it delivers clean, reliable energy for decades to come.

An advanced solution

The FPL Miami-Dade CWRC is an economical solution for Miami-Dade County to help it meet the reuse requirements under the Ocean Outfall Legislation. This project, in turn, provides FPL with an innovative opportunity to conserve higher quality water resources at the Turkey Point Clean Energy Center. This project shows Miami-Dade County and FPL are building a cleaner future for the county and is a continuation of FPL’s goal of creating clean energy projects that benefit customers. This will provide the capability for other environmentally friendly projects in the future.

This project will allow FPL to reuse a resource - reclaimed water - that would otherwise be discarded. FPL intends to use 100% of the water generated by the CWRC to cool the natural gas plant at the Turkey Point Clean Energy Center (Unit 5). Additionally, groundwater will be maintained as a backup source of cooling water for Unit 5. This is a means of increasing the resiliency of the electric-generating facility, should one cooling source become limited or unavailable. These actions will ensure a major power generation site that benefits the entire system and serves all FPL customers remains resilient for years to come.

What is the Ocean Outfall Legislation?

In 2007, the state set a goal of eliminating all wastewater discharges to the ocean by 2025 and added targets for reclaimed water use.
Building a clean energy future

FPL and Miami-Dade County are building a cleaner future for the county and our customers. The FPL Miami-Dade CWRC will be powered, in part, by zero-emissions solar energy. The company and county have partnered on clean energy projects since 2018, including the Miami-Dade Solar Energy Center, dozens of innovative solar arrays, numerous battery storage projects and electric vehicle projects. The FPL Miami-Dade CWRC project is another example of the private and public sector coming together, finding mutually beneficial solutions for one of our most valuable resources – water.

Safety is a core value of our company and at the forefront of everything we do. Ensuring the safety of the communities where we live and serve is our highest priority. That starts with setting rigorous standards.

Projected Timeline for Project

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<td>Submit permits for the FPL Miami-Dade CWRC project, including the waterline, in mid-2021</td>
<td>Construction begins in 2022</td>
<td>Expected to be operational in 2025</td>
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Delivering water safely

FPL will construct, maintain and operate an approximately 8-mile, 42-inch diameter waterline in order to deliver reclaimed water from the Miami-Dade County South District Wastewater Treatment Plant to the FPL Miami-Dade CWRC. Safety is engineered into every facet of planning, design, installation and operation. The waterline will be designed to comply with industry standards and guidelines. It will also be reviewed and approved by multiple regulatory agencies through the permitting process to ensure the design meets the agencies' design and environmental standards.

mgd = million gallons per day