

Arlington County Appoints PC Construction and Stantec for Re-Gen Project

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Arlington County has chosen a design-build team led by PC Construction and Stantec to oversee a major biosolids upgrade project at the Water Pollution Control Plant (WPCP). This progressive initiative, valued at approximately \$175 million, will implement cutting-edge technology to transform wastewater into a renewable energy source and a valuable soil amendment.

Sustainable Wastewater Treatment

The project will see PC Construction and Stantec collaborate on the design and construction of several key treatment facilities. These include:

- Thermal hydrolysis process (THP) unit
- Pre- and post-dewatering facilities
- Primary and secondary anaerobic digesters
- Odour control systems
- Biogas treatment systems
- Steam generation equipment

The THP technology is a key element, enabling the WPCP to produce Class A biosolids suitable for use as fertilizer. Additionally, the captured biogas will be treated and utilised as a renewable energy source.

Leaders in Sustainable Design-Build

The chosen team boasts extensive experience in this specialised field. PC Construction brings its expertise as builders of the world's largest THP facility, while Stantec contributes its design knowledge, having been involved in nearly half of the world's THP projects. Furthermore, they are currently collaborating on the commissioning phase for WSSC Water's Piscataway Water Resource Recovery Facility Bioenergy Project, set to be one of only five operational THP facilities in the United States.

Delivering Environmental and Economic Benefits

"This project holds immense significance for Arlington County and its residents," remarked Matt Cooke, President and CEO of PC Construction. "THP technology is rapidly gaining recognition in the US as an efficient, sustainable, and energy-conscious approach to managing wastewater biosolids. We are eager to contribute our expertise in this innovative field and help Arlington County realise its long-term vision."

"We are honoured by the opportunity to collaborate with Arlington County on this groundbreaking project," echoed Nicolle Boulay, Vice President at Stantec. "The County's commitment to sustainability aligns perfectly with Stantec's values, and we are confident in our ability to support them in achieving their goals."

Aligned with Arlington County's Solids Master Plan, the Re-Gen project is expected to contribute to reduced greenhouse gas emissions within the region and achieve negative net energy usage upon completion, targeted for the end of 2029.