



Wastewater Treatment Plant Performance Solutions

A Holistic Approach for Water and Wastewater Treatment



Solution Outcomes:

- Maximized contaminants removal from all types of Wastewater.
- Optimized influent and effluent quality to comply with required standards.
- Reduced Operational Costs, such as sludge handling or sludge disposal costs.
- Increased Water productivity through water savings and water recycling.

PT Adhikara Bangun Makmur

PT Tirtanium Adhikara Pratama

Main Office

Centennial Tower 30th Floor
Jln. Gatot Subroto Kav. 24-25
Jakarta Selatan, Jakarta 12930

Technical Office

Life Center Building 2nd Floor
Jln. Kebon Kacang Raya No. 4
Jakarta Pusat, Jakarta 10230



www.tirtanium.com

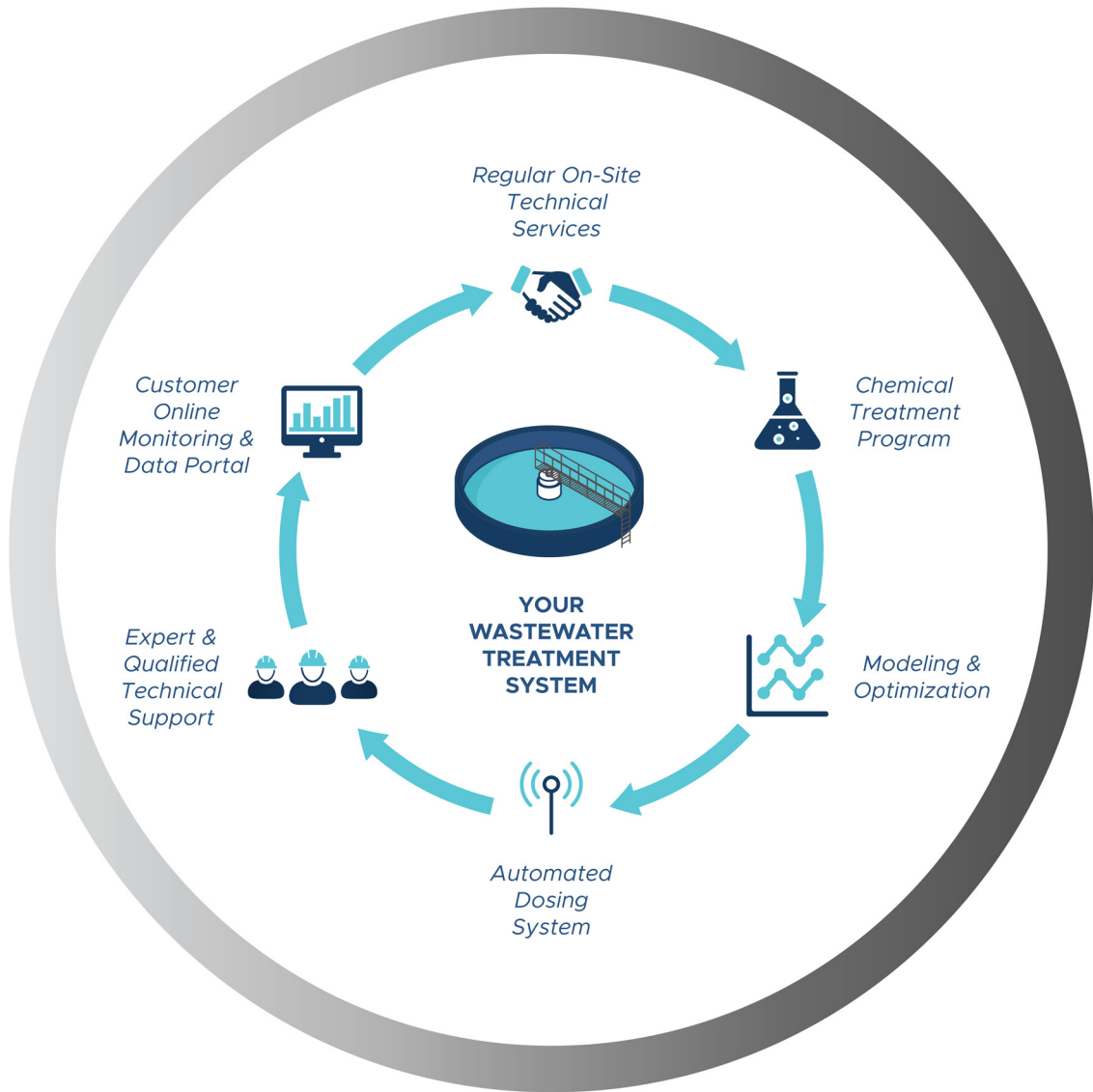
Addressing the Needs of Your Wastewater Treatment Plant

In today's fast-paced global economy, businesses face increasing pressure to comply with ever more stringent environmental standards and guarantee water supply security on one hand, without sacrificing product quality or company profitability on the other. A well-designed Wastewater Treatment Plant plays a critical role in achieving these goals.

At Tirtanium, we combine the latest Water Technologies, proprietary expertise, and a dynamic localized Team, to provide you with tailor-made solutions for your Wastewater Treatment challenges. Our end-to-end and holistic Water Resource Management framework will ensure that you get the most out of your Wastewater Treatment Plant.



What We Offer



Performance Guarantee



Improved Wastewater Quality and Compliance

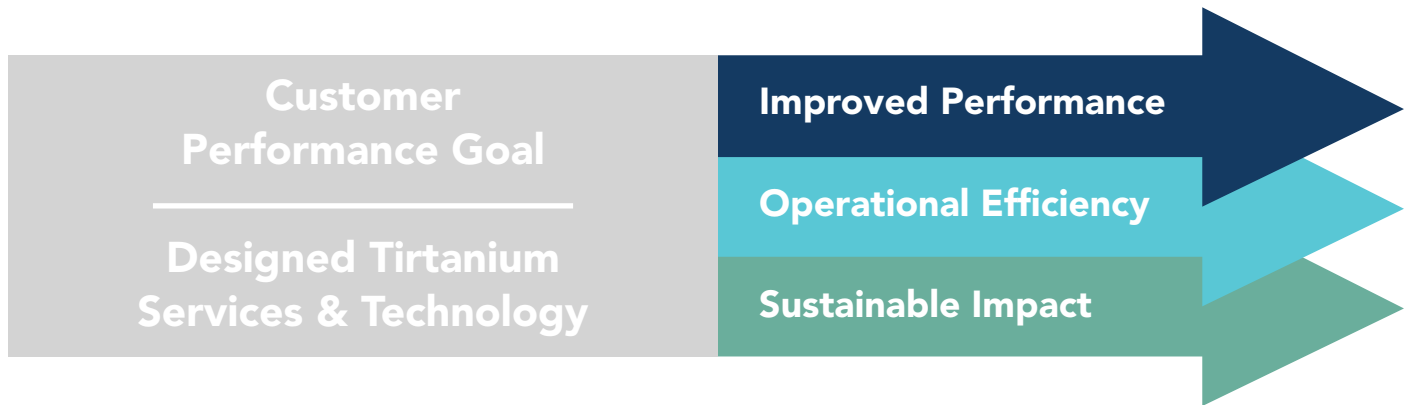


Improved Operational Cost Efficiency & Profitability



Improved Water Productivity & Environmental Impact

Value-Delivery



Wastewater Treatment Programs

We offer a complete line of products and services for Wastewater treatment :

*Coagulant &
Flocculant*

*Heavy Metal
Removal Agent*

*Oil
Demulsifier*

*Dewatering
Polymer*

*Starter
Bacteria*


Nutrient

*Disinfectant
Chemical*




Odor Control

Case Studies

Large Super Block In Central Jakarta

CLIENT SITUATION	TIRTANIUM HOLISTIC SOLUTION	CLIENT IMPACT
<p><i>Sector:</i></p> <ul style="list-style-type: none"> Commercial Real Estate <p><i>Performance Goals:</i></p> <ul style="list-style-type: none"> Increase water productivity and reduce water-related expenses. Improve wastewater quality to comply fully with government regulations. 	<ul style="list-style-type: none"> Took over Sewage Treatment Plant (STP) operations. Installed an on-site Wastewater Recycling facility that utilized UltraFiltration (UF) and Reverse Osmosis (RO). Design, Investment, Construction, and Operation of the facility done by Tirtanium. BOO contract structure (Build-Own-Operate). 	<ul style="list-style-type: none">  25% savings on water utilities bill by replacing piped municipal water volume with clean water from water recycling facility.  Achieved consistent wastewater quality that exceeded standards required by the city.  Reduce groundwater and piped water consumption by up to 650m³/day; reduce land subsidence in the city.

Large Mall in North Jakarta

CLIENT SITUATION	TIRTANIUM HOLISTIC SOLUTION	CLIENT IMPACT
<p><i>Sector:</i></p> <ul style="list-style-type: none"> Commercial Real Estate <p><i>Performance Goals:</i></p> <ul style="list-style-type: none"> Optimize the wastewater disposal system. Improve the quality of raw water to comply with government regulations. Optimize recycled water usage to reduce waterrelated expenses. 	<ul style="list-style-type: none"> Executed the Investment, Renovation, and Operation of an improved Sewage Treatment Plant (STP). Improved the DAF (Dissolved Air Flotation) System to enhance the performance of the existing Reverse Osmosis (RO) water recycling facility. BOO contract structure. 	<ul style="list-style-type: none">  Wastewater output now fully compliant with government requirements.  ~50% savings on water supply cost to the Mall.  Reduced groundwater consumption.