



# **Dynatec Systems, Inc.**

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[www.dynatecsystems.com](http://www.dynatecsystems.com)*

Since 1978, our business has been dedicated to solving industrial wastewater problems.

Dynatec's objective and commitment is to guarantee customer satisfaction by providing comprehensive solutions and supplying high quality equipment and systems for the treatment of industrial wastewater. We have solved a broad range of wastewater problems. The solutions have included systems as simple as pH control or oil/water separation, to full-scale chemical/physical, biological and membrane systems (microfiltration, ultrafiltration, nanofiltration, and reverse osmosis). Dynatec determines and provides the system that will produce the desired performance resulting in the lowest overall operating costs.

Our engineering expertise, experience and technical capabilities, combined with continued support during and after the completion of a project has allowed Dynatec to achieve successful, cost effective results for many FORTUNE 500 COMPANIES.

Dynatec understands successful system performance and design. The key to any treatment system is the thoughtful integration of the best available technologies. Our scope of supply is comprehensive and can include all functions and disciplines involved in the design, manufacture and supply of an industrial wastewater treatment system.

Very Truly Yours,

Thomas E. Doherty  
*President*  
Dynatec Systems, Inc.

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***We Make It Our Business To  
Understand The Needs Of Our Clients***

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# Value

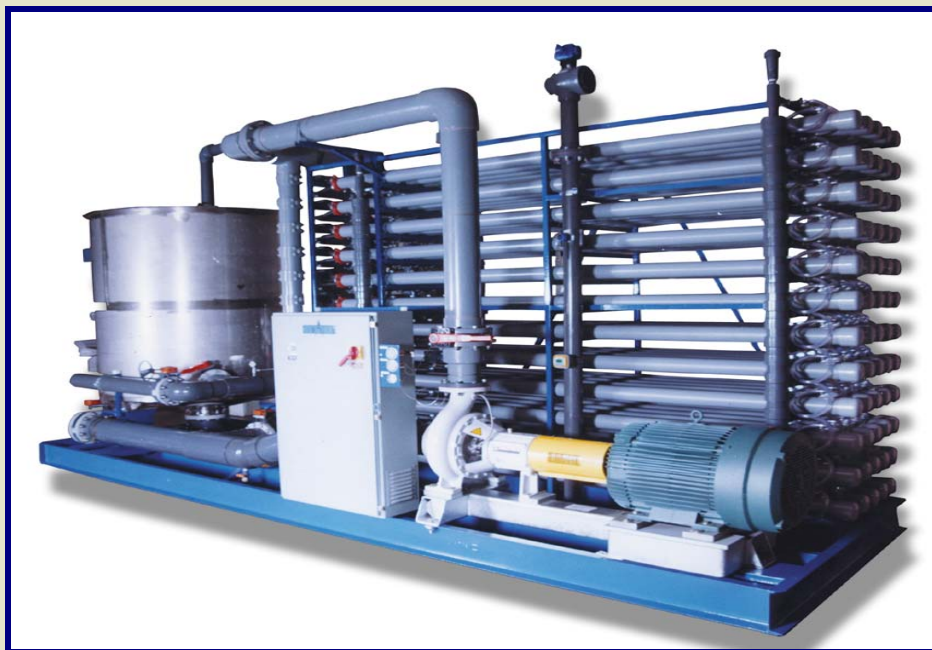
It compares the quality of a firm's product and service with the cost paid by its customers.

It is the ultimate measure of our performance.

We believe that our commitment to value is the primary reason why for more than twenty years Dynatec Systems has grown to be one of the country's best wastewater treatment companies.

Our surveys indicate that most of our customers feel that the systems that we provide are an excellent value. We believe that this is one of our most outstanding characteristics.

We offer the skill, experience, and specialized expertise traditionally believed to be available only in very large firms. We give all of our customers the personalized attention they expect with the involvement of the principals of the firm.



# Our Mission

It has always been Dynatecs' mission to create value for our customers by providing high quality wastewater purification and treatment systems and excellent service at below average cost. The pursuit of this mission has enabled us to earn and retain the trust, confidence and business of our customers. Value is the primary force that fuels our growth.

While the size and scope of our projects has grown, we have maintained our small company qualities that allow us to give personal attention to every project. The principals of the corporation are intimately integrated in all project work.

We will continue to pursue work for small and large companies alike and provide solutions to industrial wastewater problems. Our goal remains providing quality through products and services that produce reasonable growth.



# Attention To Detail Makes The Difference

We invest the time to understand our customers application in detail. Working with our customer to understand their needs and their application gives us the ability to tailor a solution that is optimal in terms of performance and value.

We make it our business to understand all of the unit sources of waste, the chemicals used, the contaminants generated and their contribution to the discharge problem. We work with our customers and determine opportunities for economizing, source reduction of waste and opportunities for recover. A very simple example will help illustrate this. Segregation of a single waste stream that is a significant contributor to the end of pipe problem might create an opportunity for reuse of that fluid. At the same time, it may make the end of pipe treatment simpler and less expensive.

Our attention to detail gives us the ability to recommend and provide solutions that perform and consistently solve the problem. The systems / solutions that we provide are modular and can be easily expanded and built upon. We can provide solutions that give our customer the ability to ultimately achieve zero discharge. The systems / solutions can be provided in such a way that it solves the current end of pipe problem and can be build upon later to ultimately produce water for reuse. Our goal is to provide solutions that maximize return on investment and optimize performance.





# How We Work

We take a cooperative team approach to every project / problem evaluating each application according to our customers needs and requirements.

Our whole technical staff is involved in every project. This gives us the ability to provide the optimum solution and give our customer the best value possible.

Our broad experience allows us to present and evaluate most of the solutions that apply. We work with our customer to evaluate the different systems that can be used to solve the problem and thereby choose and provide the solution that best meets our customers needs in terms of performance, operating costs, maintenance and reliability.



# Customer

Our project work is broad in scope. Our customers and applications are diverse. Our customers range from small privately held corporations to large Fortune 500 firms. The type of work is extremely broad and includes separation and treatment of wastewater of heavy metals, oils, latex, inks, dyes, salts, organic chemicals, food products, PCB's and others. The generic forms of treatment include chemical treatment, membrane filtration, biological treatment, resin, and carbon among others with our principal emphasis on the application of membrane filtration systems. A partial list of our satisfied customers follows.



# PARTIAL CUSTOMER LIST

- 3M
- Axel Johnson Metals
- Adhesive Research
- Air Products
- Akzo Chemie America
- Alcan Cable
- Alcoa
- Aldan Rubber
- Aford Packaging
- Allied Aerospace
- Allied Chemical
- Allied Signal
- Alpo Pet Foods
- Alumax
- American Axle and Mfg.
- American National Can
- American Nickeloid
- American Tank Cleaning
- Amtrak
- Atlantic City Press
- Atlantic Detroit Diesel
- Atlas Copco
- Avco Lycoming
- Bachman
- Bechtel
- Bethlehem Steel
- Betz Dearborn
- Binney & Smith
- Black & Decker
- Bon Ton Foods
- Borden
- Borg Warner
- Bosch
- Bristol Myers Squibb
- Campbell Hausfeld
- Carr-Lowery Glass
- Carter Wallace
- Casie Ecology Oil Savage
- Caterpillar
- CCA
- Channel Master
- Chesapeake Corporation
- Chesebrough Ponds
- Chromalloy
- Clarkliff
- Classic Carmel Co.
- Congoleum
- Consolidated Edison
- Container Corp
- Crown Cork & Seal
- Daimler Chrysler
- Dana Corp.
- Dana Trucking
- Day & Zimmerman
- Detroit Diesel/Allison
- Dresser Rand
- Dundee Mills
- Durand Glass
- E.I. Du Pont
- Eastern Stainless
- Eaton
- Emerson
- Esselte Pendaflex Corp
- Exxon
- Fasco Labeling Corp
- FCR Plastics
- Federal-Mogul Corp
- Fisher Body
- Fitzpatrick Container
- Ford Motor Company
- Foster Forbes
- Franklin Mint
- General Electric
- General Motors
- Georgia Pacific
- Glyco Chemical
- Gould Pumps
- Groffs Snack Foods
- GTE
- Haagan Dazs
- Hallmark
- Harley Davidson
- Harrisburg Steel
- Helene Curtis
- Honda
- Inland Fisher Guide
- Iochpe Maxion
- John Deere
- Johnson Matthey
- Keystone Food Products
- Kinney Shoes
- Link Belt Drive
- MAB Paints
- Mack Trucks
- Maersk Transport
- Maryland Port Authority
- Maryland Wire Belts
- Masco
- Matlack, Inc.
- McClarin Plastics
- Meadowcraft
- Mesco USA
- Milliken
- Mitsui
- Mobil Chemical Co.
- Morris Wheeler
- Morrison Knudsen
- Motor Coils
- MRC/SKF
- Nabisco
- National Rolling Mills
- New Jersey Transit
- New York Wire
- Nice Bearing Products
- Nissan
- Norton – Muralo Plant
- Nyman Manufacturing
- Ohio Central Railroad
- Olin – Ordance
- Organic Dyestuff
- Orion Finishing
- Owens Illinois
- Packaging Corp
- Packard Electric
- Paco Labs
- Panasonic
- Pennex Aluminum
- Penn Fishing Reel
- Penn Engineering
- Pennsylvania Electric
- Pennsylvania Optical
- Penske
- Pfizer
- Phelps Dodge
- Philadelphia Electric
- Philadelphia Technologies
- Phoenix Steel
- Pittsburgh Int'l Airport
- Polymer Corp
- PPG/BASF
- Proctor Gamble
- PSE&G
- Quaker Chemical Co.
- Reading Industries
- Reliance Electric
- Rich Products Corp
- Riley Whitman
- Rivard Popcorn
- Rockwell
- Roller Bearing
- Saegertown Mfg.
- Salt Lake City Airport
- Schramm Compressor
- Scherman Trucking
- SCM Chemicals
- Scott Paper
- Signode Steel
- SKF Bearing Industries
- Springs
- Standard Steel
- Stanley-Flagg
- Stein Seal
- Sunbeam
- The Environmental Quality Co.
- Thompson Steel
- Torrington
- Trane Co.
- Trinty Paper & Plastic
- TRW
- Tunnel Barrel
- Unilever
- United Aero
- U.S.Pipe & Foundry
- U.S. Repeating Arms
- U.S. Steel
- Vermont American
- Vickers
- Victaulic
- Wakefern Foods
- Ward Manufacturing
- Washington Group Int'l
- Waste Management
- Western Drum
- Western Kraft
- Winn Dixie
- Wisconsin Fine-blanking
- Worthington Industries
- Worthington Precision
- W.R. Grace
- York Candies
- York Container
- Zippo



## Industries Serviced

Services	-	laundries, equipment maintenance, tank truck wash, drum reconditioning, deicing fluid recovery
Utilities	-	power generation, service groups, equipment maintenance, transit vehicle maintenance
Food	-	meat, poultry, cheese, milk, ice cream, pet food, bakery, candy, oils, wine, fish, pasta, beverage
Textile	-	finishing, carpets, nonwovens
Paper	-	paper, corrugated box, packaging, plastics, envelopes, stationary
Printing and Publishing	-	newspapers, greeting cards, commercial printing
Chemicals	-	paints, inorganic, plastic, fibers, pharmaceutical, cosmetics, cleaning, organics, adhesives, inks
Petroleum	-	oils, lubricants
Glass	-	containers, ceramics, porcelain, glass etching
Primary Metals	-	wiredrawing, cold rolled steel, steel tubes, foundries, copper rolling, aluminum extruded products, aluminum rolling, aluminum die castings
Fabricated Metal	-	cans, drums, tools, hardware, cutlery, plumbing, metal building material, screw machine products, nuts and bolts, stampings, electroplating, ammunition, ordinance, valves, springs, wire, fittings
Machinery	-	manufacturing equipment, construction equipment, hoists, trucks, machinery tools, dies, tools, pumps, bearings, compressors, blowers, engines, refrigeration, fluid power
Electrical	-	wiring devices, lighting fixtures, appliances, industrial controls, communication equipment, printed circuit boards, semiconductors, electronic connectors, batteries, automobile electronics
Transportation	-	motor vehicles, car and truck bodies, aircraft, railroad equipment, tanks, aerospace, transit
Landfill	-	leachate, runoff
Site Remediation	-	pump and treat, runoff

# Norit Americas MBR Application Partial Reference List

## MBR APPLICATION

Wedeco	Biberach, D	3.5	Leach water	UF-5 mm, 2-stage
Wehrle Werk AG	Piesberg, D	8	Leach water	UF-14 mm, 4-stage
Wehrle Werk AG	Freiburg, D	6	Leach water	UF-8 mm, 2-stage
Wehrle Werk AG	Lorrach, D	14	Leach water	UF-14 mm, 5-stage
Wehrle Werk AG	Middenmeer, NL	6	Leach water	UF-14 mm, 4-stage
Wehrle Werk AG	Ireland	83.3	Dairy	UF-8 mm, 4-stage
Austrian Energy	Purgstall, D	3	Leach water	MF-5 mm, 2-stage
VBM	Maasvlakte, NL	7.2	Leach water	UF-5 mm, 2-stage
Ecotechnica	Milan, I	6	Leach water	UF-5 mm, 2-stage
Intertekna	Bologna, I	8	Industry water	UF-14 mm, 2-stage
Otto Oeko Tech	Goslar, D	30	Leach water	UF-5 mm, 1-stage
Otto Oeko Tech	Mertesdorf, D	20	Leach water	UF-14 mm, 1-stage
Tank Cleaning	Hengelo, NL	3	Industry water	UF-14 mm, 2-stage
Schneider	Rocore	6	Tank cleaning	UF-5 mm, 2-stage
WNWB	Cargill	30	Food	UF-85 mm, 3-stage
VHP	Ugchelen	9	Paper	UF-8 mm, 3-stage



# SYSTEMS, PRODUCTS & SERVICE

Dynatec offers standard packaged systems or non-standard integrated engineered systems to meet the many diversified needs for today's industrial wastewater treatment requirements. Typical applications for standard and non-standard engineered systems include but are not limited to the following:

- Add-ons for Pre & Post Treatment
- Biological Treatment Systems
- Chemical Treatment Systems
- Contract Services
- Custom Design
- Existing System Retrofit and Upgrade
- Membrane Filtration Systems
- Packaged Treatment Systems
- Pilot Studies
- Project Management
- Sludge Dewatering Systems
- Systems Commissioning
- Systems Design
- Systems Engineering
- Systems Operation
- Technical Support
- Treatability Studies
- Turnkey Engineered and Installed Systems

Our determination to provide clients with the best possible system for water treatment and wastewater applications makes DYNATEC the logical choice for companies who want comprehensive solutions to solve their treatment problems comprehensively the first time.

Our offices, lab facilities and fabrication operations are located in historic Burlington, New Jersey. The engineering, sales and administrative offices are in a restored Federal style mansion situated on several acres. Fabrication and assembly of standard and custom design systems are accomplished in our nearby manufacturing facility.

## CONTRACT SERVICE

Dynatec Systems can provide complete system engineering, design, system supply, installation, operation, and maintenance based upon a pennies per gallon charge. No capital expenditure required. The customer provides space for the treatment equipment and utilities to operate the equipment. Dynatec Systems provides everything else, including treatment to agreed standards in agreed volumes, maintenance, operation and repairs waste disposal. Contract service provides predictable waste treatment and disposal costs based upon multi-year contracts

December 13,2001

**Press Release:**  
**For Immediate Release**

**NORIT Americas, Inc. and Dynatec Systems Inc.  
announce alliance to market Membrane Bio Reactors (MBR) for Industrial Applications.**

NORIT Americas, Inc. and Dynatec Systems Inc. have agreed to jointly further develop the US market for Membrane Bio Reactors (MBR) within the industrial applications segment. Both companies bring significant and unique experience to the alliance.

Norit Americas, Inc. is a multinational process technology company based in the Netherlands with US operations in Atlanta. Norit has developed proprietary hollow fiber, tubular and spiral wound membrane modules for process, water and wastewater treatment applications with the trade name of XFLOW<sup>®</sup>

Dynatec Systems, Inc. is an applications and systems engineering company with over 500 membrane systems installed in the US during their 23 year history. Dynatec specializes in the use of membrane technologies to solve difficult industrial waste treatment problems. The company will take turnkey project management responsibility including installation and general contracting as required. Dynatec custom engineers membrane solutions to existing equipment or space in order to minimize the capital expense. Dynatec has experience with build, own, operate (BOO) and currently owns and operates facilities throughout the US on a contract service basis.

The companies have agreed to an alliance to develop the industrial waste market for Membrane Bio Reactors (MBR's) in the United States. Within the MBR technology area the two companies have a wide range of experience to help solve complex high strength industrial wastewater problems. Norit has experience within the European market with over 25 MBR systems installed processing—10,000 Cubic Meters per Day (2.5 MGD). The company has developed patented Airflush<sup>™</sup> and Airlift<sup>™</sup> technology to minimize energy consumption and maximize membrane productivity.

Dynatec has sold several industrial MBR systems in the United States utilizing the Norit's membrane technology. The alliance will combine the strength and experience of each company to maintain a leadership position in the industrial markets for MBR including metalworking, food processing, chemical, petrochemical, pharmaceutical, and others.

The Membrane Bioreactor (MBR) is a compact waste treatment system that combines biological decomposition with membrane separation. The membrane concentrates the biomass which enables a more compact design with lower retention times when compared with traditional biological treatment. For a retrofit of an existing biological system, this can result in more output or a smaller footprint. The process also produces less sludge, a higher quality effluent and is less sensitive to variations in feed quality. MBR systems are capable of processing high strength industrial wastewater with a small footprint. The technology can be applied to a new systems to meet effluent requirements cost effectively or retrofitted to a traditional extended aeration or SBR bioreactors.

The terms of the alliance include technology transfer from Norit to Dynatec in the area of membrane application. Dynatec will be responsible for market development, systems design, fabrication and customer service in the United States.

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# ELECTRONICS

## APPLICATIONS

- Electronic Component Wastewater Treatment
  - Plant Incoming Water Treatment
- Printed Circuit Board Wastewater Treatment
  - Rinse Water Purification and Reuse
  - Semiconductor Wastewater Treatment

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
- Oil and Grease Removal
- Heavy Metals Separation
  - Phenol Removal
  - TDS Separation

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# FOOD

## APPLICATIONS

- Bakery Wastewater
- Beverage Manufacture
- Cafeteria Wastewater
- Candy Production Wastewater
- Dairy Products Wastewater
- Egg Processing Wash Water
- Fish Processing Wastewater
- Poultry Plant Wastewater
- Snack Food Plant Wastewater

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
- Fats, Oil and Grease Removal

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# GLASS AND PLASTICS

## APPLICATIONS

- Cullet Wash Water Treatment
  - Mold Release Separation
- Plastic Wash Water Treatment and Recycling
- Parts & Equipment Wash Water Clean and Recycle

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
  - Metals Removal
- Oil and Grease Separation
- Total Dissolved Solids Reduction  
Toxicity Reduction

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# GROUNDWATER / LANDFILL

## APPLICATIONS

- Ground Water Remediation
- Landfill Cogeneration Wastewater
  - Landfill Leachate
  - Stormwater Runoff

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
- Heavy Metals Separation
- Oil/Water Separation
- Solids Separation
- Total Dissolved Solids Reduction
- Toxicity Reduction

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# METAL FINISHING

## APPLICATIONS

- Acid Cleaning
- Alkaline Cleaning
  - Anodizing
- Chemical Coatings
- Electroplating Wastewater / Rinse Water
  - Finishing Line Wastewater
    - Powder Coating
  - Vibratory Finishing

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- Alkaline Wash Recovery
- BOD and COD Reduction
  - Cyanide Destruction
- Oil and Grease Removal
  - Phenol Removal
  - Purify and Reuse
- Total Dissolved Solids (TDS) Reduction
- Total Organic Carbon (TOC) Reduction
- Total Suspended Solids (TSS) Reduction
- Total Toxic Organics (TTO) Removal
  - Toxicity Reduction

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# METALWORKING

## APPLICATIONS

- Acid Cleaning
- Alkaline Cleaning
- Aluminum Die Casting
- Buffing Compounds
- Burnishing
- Coolants
- Lubricants
- Paint Spray Booth
- Phosphatizing
- Vibratory Finishing
- Wire Drawing Process

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- Alkaline Wash Recovery
- BOD and COD Reduction
- Cyanide Destruction
- Heavy Metals Removal
- Oil and Grease Removal
- Total Dissolved Solids (TDS) Reduction
- Total Organic Carbon (TOC) Reduction
- Total Suspended Solids (TSS) Reduction
- Total Toxic Organics (TTO) Removal

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# OTHER INDUSTRIES

## APPLICATIONS

- Commercial Wastewater Treatment Plants Wastewater
  - Ion Exchange Regenerate Waste
    - RO / UF Concentrate

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD / COD Reduction
  - Clean and Reuse
  - Metals Removal
  - Oil and Grease Removal
- Total Dissolved Solids (TDS) Reduction
- Total Organic Carbon (TOC) Reduction
- Total Toxic Organics (TTO) Reduction
  - Toxicity Reduction

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# PAPER, PRINTING AND PACKAGING

## APPLICATIONS

- Flexographic Ink and Starch Wastewater
  - Water Base Ink Wash Water
- White Water Treatment and Reuse

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
  - Color Removal
  - Heavy Metal Removal
  - Oil and Grease Removal
  - Purify and Reuse
  - Starch Removal

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# SERVICE INDUSTRY

## APPLICATIONS

- Alkaline Wash Water Purify and Reuse
- Coin Operated Laundry Wastewater
- Drum Reconditioning Wastewater
- Equipment Maintenance Wastewater
- Equipment Wash Water Purify and Reuse
  - Floor Scrubber
- Industrial Laundry Wastewater

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
- Heavy Metal Removal
- Oil and Grease Removal
- Recycle Wash and Rinse Water

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# STEEL

## APPLICATIONS

- Electrogalvanizing Treatment and Recovery
  - Pickling Treatment and Recovery
- Rolling Emulsion Treatment and Recovery
- Steel Can Manufacturer Wastewater Treatment

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- Acid Recovery
- Alkaline Wash Recovery
- Heavy Metal Removal
- Oil and Grease Removal
  - Phenol Removal
  - Purify and Reuse
- Total Dissolved Solids (TDS) Reduction
  - Toxicity Reduction

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# TEXTILE

## APPLICATIONS

- Brine Recovery and Reuse
  - Latex Separation
  - Latex Wastewater
- Nonwoven Fabric Manufacture Wastewater
  - Scour and Bleach Wastewater
    - Size Wastewater

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
  - Color Removal
  - Heavy Metal Removal
  - Purify and Reuse
- Total Dissolved Solids (TDS) Removal
  - Toxicity Reduction

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# TRANSPORTATION

## APPLICATIONS

- Aircraft Deicing Fluid Treatment and Recovery
  - Floor Scrubber Wash Water
  - Heavy Equipment Cleaning
  - Railroad Maintenance Facility
    - Tank Truck Wash Water
- Transit Authority Vehicle Maintenance Facility
  - Truck and Vehicle Wash

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- BOD and COD Reduction
  - Clean and Reuse
  - Oil and Grease Removal
  - Heavy Metals Removal
- Total Organic Carbon (TOC) Reduction  
Total Toxic Organics (TTO) Reduction

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# UTILITIES

## APPLICATIONS

- Boiler Water Treatment
- Power Generating Facility Wastewater

## PROBLEMS SOLVED / SOLUTIONS PROVIDED

- Oil Water Separation
  - PCB Removal
  - Toxicity Reduction

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