

Proposal of High Concentrated Industrial Waste Liquid Reduction System in Vietnam







KYOWAKIDEN Group is specialized in environmental creation and take our commitment to providing safer and more comfortable lives.

Company Name : KYOWAKIDEN Industry Co., Ltd

Address : Nagasaki, Japan

Establishment : June, 1948

Employees : 490 (KYOWA Group 720)

Business Field



Water Purification, Recycling, Seawater Desalination, Sewage Treatment, Wastewater Treatment



Energy saving, Micro-Grid, Information, Software, Control and Monitoring



KYOWA will supply EPC and O&M services with QCDS.



Diagnosis · Maintenance (Motor, Pump etc.), Disaster Response ,O&M













Establishment	: 2015	
Location	: (HQ) Ving Long Province (Sales Office) Ho Chi Minh City	
Employee	: 49 (Japanese 2)	
Business Area	: Vietnam and South East Asia	



Design(Mechanical/ Electrical/ Construction)

- Mechanical Design(2D/3D) for Water Treatment
- Electrical Design(Structure/System)
- **Construction Design**
- *Japanese is available.
- *Manufacture at cooperating factories in Vietnam.

Environment Engineering

- Industrial wastewater treatment device
- Water purification equipment
- High concentrated waste liquid reduction system
- Small size seawater desalination equipment





Headquarter in Vinh Long



Ho Chi Minh Sales-office









High Concentrated Industrial Waste Liquid Reduction System





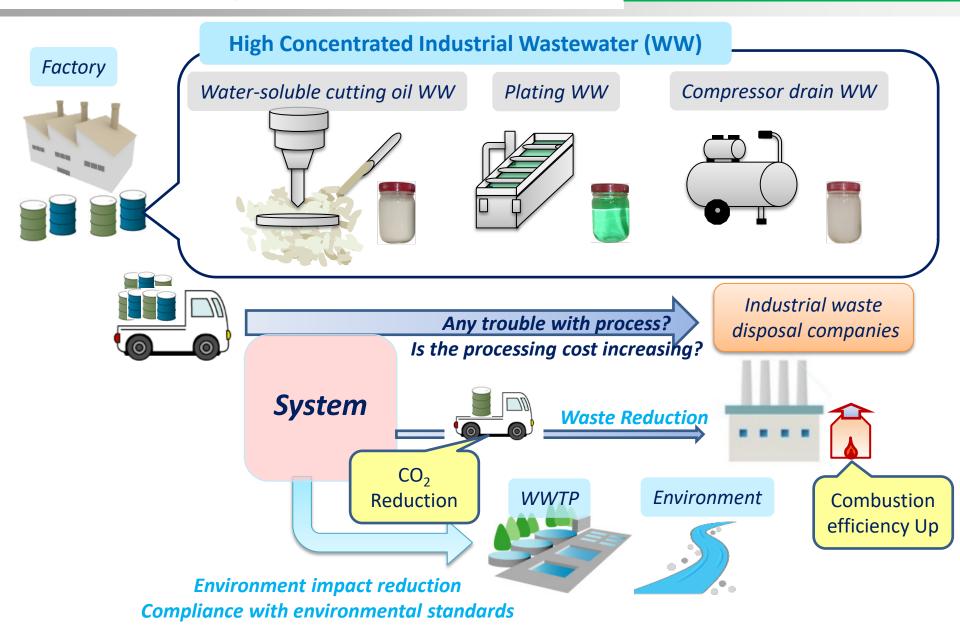


meets the following customer needs;

Reduce the amount of industrial waste(liquid) and Reduce the cost!

Process properly according to the environmental rules!









Decompression -dehydration **Drying Device**



Recovered water

Concentrated residue/ Sludge



Industrial waste disposal companies



G-ace Oil containing Wastewater treatment



Treated water







Membrane treatment

Decompression-dehydration Drying Device

Technology: Dehydration / concentration by heating

Separation by decompression distillation

Specification: 25 L/h ~ 1250 L/h

Treatment Flow: Supply > Distill > Discharge "Auto-operation"





- Water-soluble cutting oil wastewater
- Alkaline degreasing wastewater
- Plating wastewater

Cooling

water

- Washing wastewater
- Sludge after filter press
- RO concentrated liquid

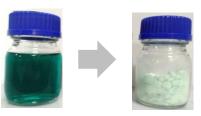
etc.





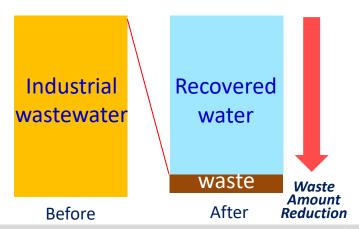
Solidification

<Salty water>



<Nickel plating water>

Max 99% concentration



G-ace

Oil containing Wastewater treatment

Technology: Oil Separate by Floating and Ozone micro bubble

Floating sludge removal

Specification: 50, 100 250 L/h

Treatment Flow: Floating separation > Sludge removal "Auto-operation"



- Compressor drain liquid
- Washing water of Engine or motor etc.



Advanced treatment

Technology: Decomposition of organic

by High-efficiency biological treatment and MBR membrane

Specification: 50, 300, 500 L/h

Feature: Strong against raw water fluctuations and stable treatment performance

- Advanced treatment of G-ace treated water
- •Wastewater requested to be discharged etc.







Other Membrane treatment,
Chemical treatment

Advanced

treated



Customer: Car parts manufacturing factory (China)

Waste: Water-soluble cutting oil wastewater

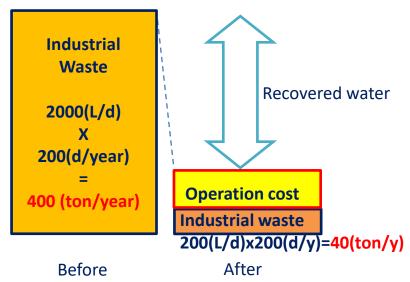
Processing amount: 100 L/day (2000 L/day)



- Water Quality -

	Raw water	Recovered water	Advanced treated water	
рН	8.97	10.58	6-9	
CODcr	99,300	3,690	< 110	
BOD	28,000	1,000	<30	
SS	115	13	<100	
n-Hex (Oil)	28,000	606	<8	

- Cost Benefit-



Unit: mg/L without pH



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Thank you for your attention!

Ho Chi Minh Sales-Office

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