

# MESCO

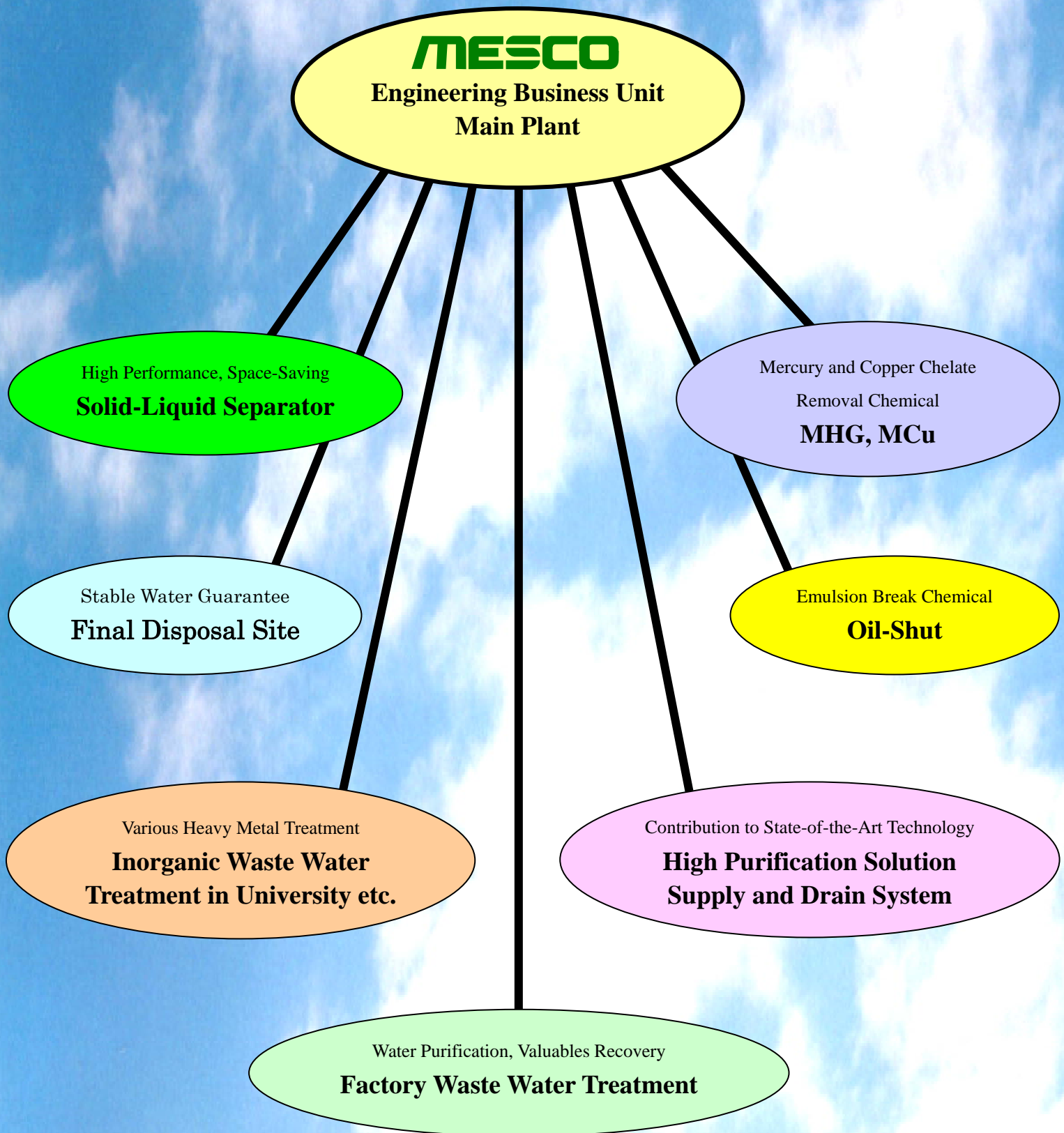
## Waste Water Treatment



**MESCO**

**MESCO, Inc.**

**MESCO** contributes to the global environmental as the theme “**Revival of Water**” through the reliance and latest engineering in all stage of the project, from planning, design, and up to after-sales services.



# Factory Waste Water Treatment

**MESCO** supplies the various heavy metal waste water treatment plant developed proprietary based on non-ferrous metal and antipollution technology. It is global environmentally friendly technology, which is not only "treatment" but also "recovery", "reuse", "recycle" and "energy saving".



## 1. High Density Acid and Heavy Metal Waste Water Treatment Plant

(Huludao, China)

\* Plaster Recovery, Treated Water Recycle, Heavy Metal Treatment

## 2. Etching Waste Water Treatment Plant

(Malaysia) \* Copper Oxide Recovery

## 3. Smelter Waste Gas Harmless Plant

(Chile) \* Arsenic Fixation

## 4. Mineral Resources Recovery Plant

(Kazakhstan) \* Precious Metal Recovery

## 5. Other

Mercury Waste Water Treatment



Besides, **MESCO** high technologies contribute to the complicated waste water treatment, which is various metal recovery from high density copper and lead, and high density COD treatment.

# Inorganic Waste Water Treatment in University etc.

**MESCO** supplies the multistage treatment system includes **"MEF Electrolytic Surfacing System"** developed proprietarily for various waste water which is difficultly to treat at the same time. It is evaluated as **"optimized plant for heavy metal treatment"**.

Today the waste water generated from universities and research institutes is complicatedly and variously. Especially it includes the difficult decomposition organic substance, i.e. chelate etc., and organic chlorine compound. In order to decrease the waste water includes these organic substances, and to secure the stable water quality, **MESCO** establishes the treatment system by joint research with universities etc. for long time. Besides, today the attracting **"MEF Electrolytic Surfacing System"** has been given a patent in 1975.



Overview



Thickener



MEF Electrolytic Surfacing System



Filtration and Adhesion Tower

# Solid-Liquid Separator

**MESCO** supplies the proprietary solid-liquid separation system.

## 1. Feature

- The performance capacity of this system is very high, and its installation space can be approximately 1/20 smaller than the thickener, and can be approximately 1/5 smaller than the pressure surfacing system.
- The structure of this system is very simple, and its maintenance can be easy.
- The load of dehydrator can be lower, because flock is concentrated and is discharged.
- This system is suitable for surfacing separation of difficult gravity settling suspensions and fine particles.

## 2. Application

- The waste water which included the heavy metals, the organic substances, oils and the other suspensions



# Final Disposal Site (General and Industrial Wastes)

Based on the environment and geology of the landfill site and the survey results of landfilling objects, emphasis is placed on the relevant laws and regulations, **MESCO** proposes the optimum landfilling and the inundation sewage treatment system in accordance with regional situation and needs responsibly, and contributes to create a rich and lining environment for the area.

Microbial Treatment	Rotary Disc Method
	Contact Aeration Method
	Activated Sludge Method
	Biological Filtration Method
	Biological Denitrification Method
Physical Chemical Treatment	Cohesion Precipitation Method
	Sand Filtration Method
	Activated Charcoal Adsorption Method
	Ozone Oxidation Method
	Chelate Adsorption Method



Chemical Tank



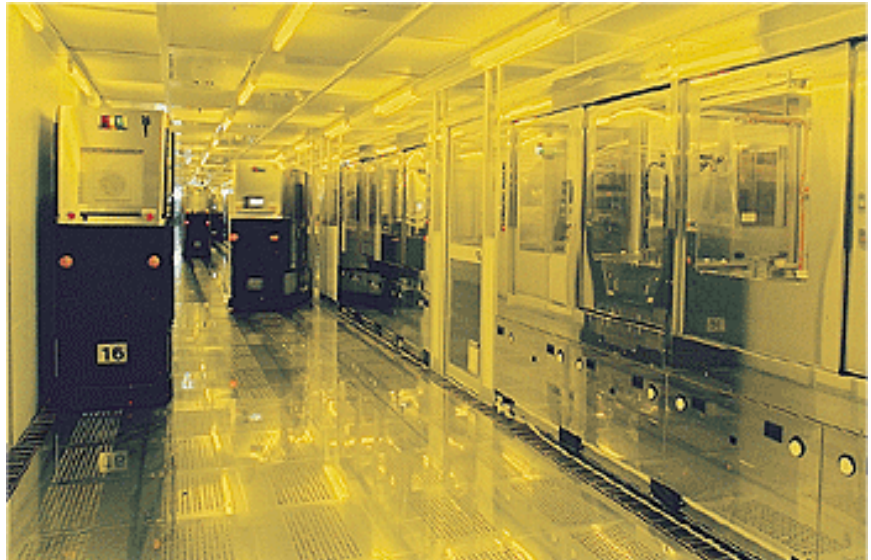
Rotary Disc



Control Panel

# High Purification Solution Supply and Drain System

**MESCO** keeps up with any needs in the business field depending on high quality of chemical liquid accompanying miniaturization of semiconductor elements and increase in quantity and type of chemical solution used.



## Feature

- This system has the know-how based on the achievement of various inorganic and organic chemicals at the IT leading companies.
- This system maintains the chemical quality certainly.
- This system maintains the safety in the case of emergency such as leakage sensor system.
- This system realizes the unitization, the simplification, the cost deduction and the delivery shortening based on the many construction achievement.

Please contact us about "MESCO Waste Water Treatment Plant" contributing to the living environment and the global environment.

### Waste Water Treatment Main Plant

Objects	Plant
Factory Waste Water 1) Heavy Metals Waste Water Lead, Copper, Arsenic, Others 2) Etching Waste Water 3) Fly Ash, Sludge Treatment 4) COD Removal	Heavy Metal Waste Water Treatment System Heavy Metal Recovery System Harmless Treatment System
Solid-Liquid Separator	MEF Electrolytic Surfacing System EC Quick Separator
University, Institute, Hospital etc.	Inorganic Waste Water Treatment System Organic Waste Water Incineration System
Semiconductor Manufacturing Factory	Chemical Supply and Drain System
Final Disposal Site (General and Industrial Wastes)	Final Disposal Site Leachate Treatment System
Various Treatment Chemicals (Goods Name) "Oil Shut" "MHG, MCu"	Emulsion Break Chemical Mercury and Copper Chelate Removal Chemical



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