



# **Environmental Solutions**

## **Wastewater & Air Treatment Solutions & Process Solutions**

Enabling Immediate OPEX Reduction,  
Optimized Process Control through  
Filtration & Chemicals, Instrumentation  
and Automation Solutions .

**Delivering  
Sustainable  
Solutions**

## Environmental Solutions

### Wastewater & Air Treatment Solutions & Process Solutions

#### ► About us

Founded on the principles of sustainability and technological innovation, Power Energy specializes in wastewater treatment and recycling from petrochemical facilities using portable, modular, skid mounted rental or lease to own solutions and turn key services including engineering, installation, commissioning and 24 x7 O&M services with spares and consumables. Our team of experts combines cutting-edge technology with deep industry knowledge to create efficient, eco-friendly systems that meet the highest standards of quality and safety.

► Process & Wastewater Treatment

► Filters and Separators

► Process Optimization

► Site Operations Management



#### ► Our Optimization Solutions

- OIL (HEAVY, LIGHT & EMULSION), GREASE , VOC /BTEX & SVOC REMOVAL FROM WASTEWATER
- ETHYLENE PLANT SHUTDOWN WASTE WATER TREATMENT (BOTH ZYME FLOW AND SOLARCA)
- ETHYLENE CRACKER NORMAL OPERATIONS WASTE WATER TREATMENT
- HYDROCARBON/EDC VAPOR EMISSION CONTROL DURING SHIP LOADING
- BUTANE AND PROPANE DEHYDROGENATION PROCESS WASTE WATER TREATMENT
- SIMULTANEOUS TREATMENT OF SPENT CAUSTIC AND SPENT PHOSPHORIC ACID
- SPENT CAUSTIC LADEN WITH SULFIDES AND PHENOLS
- HYDROCARBON STORAGE TANK EMISSION CONTROL
- PORTABLE AND MODULAR AMMONIA WASTE WATER TREATMENT.
- PROCESS EXTERNAL COOLING AND CHILLING SERVICES

## ➤ Wastewater and Process Water Solutions

**Power Energy** enables customers to handle wastewater and process fluids more efficiently by removing the contaminations to recycle and reuse the fluids or discharge as per the local discharge requirements.

The contaminants handled by Power Energy are :

- |                 |             |                       |
|-----------------|-------------|-----------------------|
| ➤ BTEX          | ➤ TSS       | ➤ Ammonia             |
| ➤ VOC and SVOCS | ➤ TDS       | ➤ Phenol              |
| ➤ Oil & Grease  | ➤ TOC       | ➤ Glycol              |
| ➤ Hydrocarbons  | ➤ COD & BOD | ➤ Spent Caustic & Edc |



**Power Energy** wastewater and process fluids treatment and filtration solutions has multiple customized technologies that are of global standards.

Some of them are :

- |                                         |                                  |
|-----------------------------------------|----------------------------------|
| ➤ Strippers / Scrubbers ( VOC Removal ) | ➤ Activated Carbon Media         |
| ➤ Ion Exchange Resin Systems            | ➤ Sand, Clay and Mixed Bed       |
| ➤ Phase Separators                      | ➤ Electro Coagulation            |
| ➤ Filters and Coalescers                | ➤ Advanced Nano Bubble Oxidation |
| ➤ Centrifuge, DAF and DGF               | ➤ Chemical Oxidation             |
| ➤ Advanced Bioreactors                  | ➤ UV and Ozone Systems           |
|                                         | ➤ UF and RO Membranes            |

## Water Treatment, Process Solutions & Filtration



### Filters and Coalescers

Petrochemicals Processes require removal of Solid from liquids and removal of liquids from gases to maintain the operations & efficiency .

Power Energy provides customized filters and coalescers that removes contaminants from fluids, keep the recirculation loop clean, increase the efficiency and optimize the process. Some of the products from filtration are:

- Filters – Depth, String Wound, Pleated and Custom Designed Filters and Bags
- Gas Phase Filters – Standard and Custom
- Coalescers – basket & Cartridge
- Phase Separation – Advanced Media Solutions



## Water Treatment, Process Solutions & Filtration

### Industries we serve:

- › Oil & Gas
  - › Petrochemicals
  - › Upstream Drilling and Production
  - › Downstream Refineries
  - › Midstream Storage Terminals
- 
- › Water Treatment and Utilities
  - › Companies
  - › Manufacturing
  - › Power and Energy Production
  - › Commercial Desalination Plants



### Our Customers



أرامكو السعودية  
saudi aramco



التصنيع  
TASNEE



| CUSTOMER     | Our Vendor Number |
|--------------|-------------------|
| SABIC        | 1053999           |
| SAUDI ARAMCO | 10067929          |
| MAADEN       | 40810             |
| SADARA       | 1000004387        |

## Business locatin

### Head Office

P.O. Box 10006.  
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### Operations Office

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Kingdom of Saudi Arabia

### Projects Office

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## For More Information

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