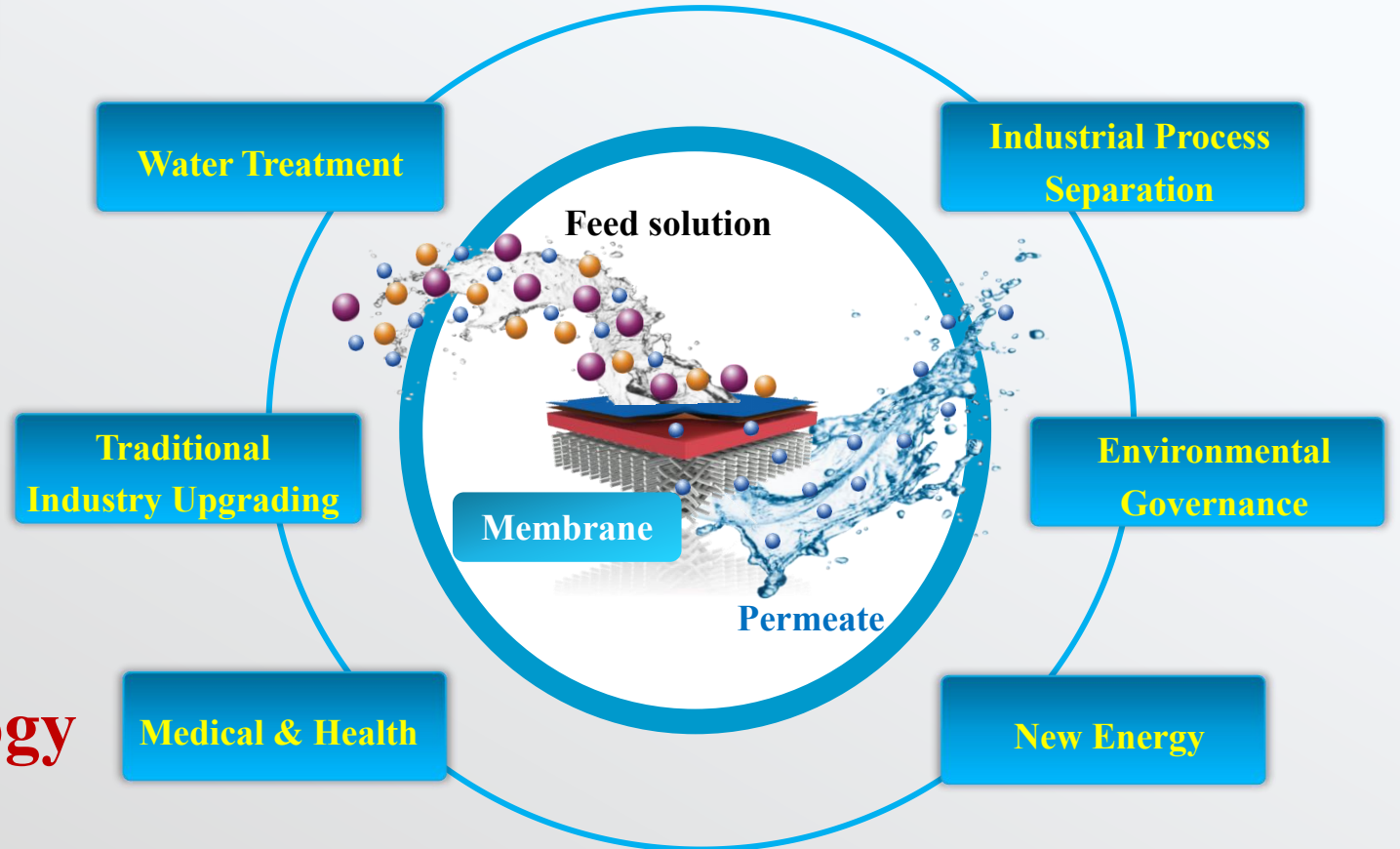


# Anhui Cooperate Environment Technology Products Introduction



**Focus on Membrane Technology**

# Containerized Seawater Desalination System



<b>Model No.</b>	<b>KBR-CSDS-SW500</b>
<b>Capacity</b>	<b>500m<sup>3</sup>/day</b>
<b>Energy Recovery Device</b>	<b>V</b>
<b>Feedwater Connection</b>	<b>DN125</b>
<b>RO Permeate Connection</b>	<b>DN80</b>
<b>RO Concentrate Connection</b>	<b>DN100</b>
<b>Installed Power</b>	<b>110kw</b>
<b>Length</b>	<b>12192mm</b>
<b>Width</b>	<b>2438mm</b>
<b>Height</b>	<b>2896mm</b>
<b>Container Size</b>	<b>40(ft) HQ</b>

# Containerized Seawater Desalination System

Name / Item	Capacity	Energy Recovery Device	Feedwater Connection	RO Permeate Connection	RO Concentrate Connection	Installed Power	L*W*H	Container Size
<b>KBR-CSDS-SW500</b>	<b>500m<sup>3</sup>/day</b>	<b>X</b>	<b>DN125</b>	<b>DN80</b>	<b>DN100</b>	<b>110kw</b>	<b>12192*2438*2896m m</b>	<b>40(ft) HQ</b>
<b>Process Description</b>	Seawater----Quartz Sand Filtration---SWRO (Feed water)---Fresh Water							
<b>Power Supply</b>	Voltage: 220V/380V/440V, 50~60Hz, three-phase; Protection level: IP54							
<b>System Features</b>	<ul style="list-style-type: none"> <li>➤ Siemens Global Screen 10" color display, touch screen control</li> <li>➤ Siemens smart200 PLC, RS232/NET communication</li> <li>➤ High pressure pump configuration inverter</li> <li>➤ Automatic water rinse when shutting down</li> </ul>				<ul style="list-style-type: none"> <li>➤ CIP cleaning system</li> <li>➤ Automatic dosing system</li> <li>➤ Modular equipment, plug and play</li> <li>➤ Remote monitoring system</li> </ul>			
<b>Key Parameters</b>	<ul style="list-style-type: none"> <li>➤ Recovery Rate.....35%-50%</li> <li>➤ Desalination Rate..... ≥ 99.5%</li> <li>➤ Raw water TDS.....~35000 ppm</li> <li>➤ Permeate TDS..... &lt; 400 ppm</li> </ul>				<ul style="list-style-type: none"> <li>➤ Design Temperature.....25° C</li> <li>➤ Operating Temperature.....15-40° C</li> <li>➤ Working Pressure..... &lt; 6.5 MPa</li> </ul>			
<b>Documents</b>	<ul style="list-style-type: none"> <li>➤ Operation and Maintenance Manual</li> <li>➤ Certificate of Conformity</li> <li>➤ Process Flow Diagram,</li> </ul>				<ul style="list-style-type: none"> <li>➤ Electrical Diagram</li> <li>➤ Assembly Drawing</li> </ul>			
<b>Material</b>	<ul style="list-style-type: none"> <li>➤ High Pressure Pipeline.....2205</li> <li>➤ Low Pressure Pipeline.....UPVC or PP</li> <li>➤ Frame.....SUS316L or CS+Anti-corrosion</li> </ul>				<ul style="list-style-type: none"> <li>➤ Electric Control Cabinet.....IP54 CS+Anti-corrosion</li> <li>➤ Pretreatment filter.....FRP</li> <li>➤ Pressure vessel.....FRP, 68 bar (1000psi)</li> </ul>			

# Case 1-Containerized Seawater Desalination System Cases

The containerized seawater desalination unit features an integrated design for instant use. With exceptional mobility, it can be rapidly deployed to water-scarce areas such as islands and construction sites. It delivers stable and excellent water quality that meets drinking standards. Its compact footprint and high automation significantly shorten the construction cycle, making it the optimal solution for emergency and long-term water supply.



Client	Shandong	
Item	Feed Water	Effluent Water
Capacity (m3/d)	200	100
Feed EC (us/cm)	43500	<310
Temp (°C)	10~35	10~35

## Case 2-Seawater RO membrane on the Island for Drinking Water

Model	NA	SW-8040-400-HR
RO Feed EC	us/cm	46000
Feed Boron	ppm	3
Temp	°C	15-30
Start-Up Date	-	2025.12
Permeate Flux	m3/h	3.5
Recovery	%	40
PV Configuration	NA	1:1:1
Element per PV	NA	3
Product EC	us/cm	320
Product Boron	ppm	0.56
Salt Rejection	%	99.3
Boron Rejection	%	81
Feed Pressure	bar	40-50



The containerized seawater desalination unit features an integrated design for instant use. With exceptional mobility, it can be rapidly deployed to water-scarce areas such as islands and construction sites. It delivers stable and excellent water quality that meets drinking standards. Its compact footprint and high automation significantly shorten the construction cycle, making it the optimal solution for emergency and long-term water supply.