



The Powerful Potential of SixPower for Seawater Desalination and Comprehensive Resource Recovery

SixPower technology holds remarkable potential for the desalination of seawater, offering not only the production of clean drinking water but also a variety of valuable byproducts. Through advanced low-temperature plasma electrolysis, SixPower can generate hydrogen, metal oxides, and hydroxides, as well as solutions of hypochlorites, chlorites, and chlorates—each with significant industrial applications. This versatile technology also allows for a hybrid approach, integrating reverse osmosis with SixPower's proprietary processes for comprehensive and efficient seawater processing.

Key Benefits and Capabilities of SixPower Technology:

1. Hydrogen Production:

- By applying low-temperature plasma electrolysis to seawater, SixPower effectively splits water molecules, producing hydrogen gas. This hydrogen can be harnessed as a clean energy source, contributing to the growing demand for sustainable and renewable energy solutions.

2. Metal Oxides and Hydroxides:

- The technology also facilitates the extraction of metal oxides and hydroxides from seawater. These materials are valuable in various industries, including electronics, ceramics, and chemical manufacturing, making SixPower's approach both resource-efficient and economically viable.

3. Hypochlorites, Chlorites, and Chlorates:

- Solutions of hypochlorites, chlorites, and chlorates are generated as byproducts of

the electrolysis process. These compounds are widely used in industrial disinfection, water treatment, and chemical synthesis. SixPower enables the production of these chemicals in a controlled and environmentally friendly manner, reducing reliance on more energy-intensive and polluting methods.

4. Clean Drinking Water:

- One of the primary goals of SixPower technology is the production of pure, potable water from seawater. The process not only removes salts but also ensures the elimination of harmful contaminants, providing a safe and reliable source of drinking water.

5. Flexibility and Hybrid Integration:

- SixPower technology is highly adaptable and can be seamlessly integrated with traditional desalination methods, such as reverse osmosis. By combining these techniques, SixPower offers a hybrid solution that maximizes efficiency and resource recovery. The flexibility of this approach allows for tailored solutions depending on the specific needs and conditions, whether it's for industrial applications or potable water production.

SixPower technology is a powerful and flexible solution for the desalination of seawater, offering not just clean drinking water but a range of valuable byproducts, including hydrogen, metal oxides and hydroxides, and chemical solutions. Its adaptability allows it to be used alone or in conjunction with reverse osmosis, providing a comprehensive approach to seawater processing. This makes SixPower an ideal choice for industries looking to optimize resource recovery while ensuring environmental sustainability.