DECARBONIZE YOUR PORTFOLIO

REDUCE YOUR PER m^3 WATER COST

INTRODUCTION: A coastal area has 4 water producers, including an Independent Water and Power Producer (IWPP) and 3 Independent Water Producers (IWPs) who require a stable source of CO_2 for their operations. However, the current CO_2 supply chain has numerous challenges, including supply chain issues, cost, and environmental concerns. To address this need, GAS LAB proposes to implement a Carbon Capture plant to convert waste flue gases generated during power production into a stable and consistent source of CO_2 for the IWPs. This case study examines the benefits of implementing this solution for the IWPP and the IWPs.

CO_2 Demand:

Water Producer	CO_2 Demand (kg/h)
IWPP	500
IWP 1	750
IWP 2	1000
IWP 3	1500
Total CO_2 Consumption	**3750**

SOLUTION: By implementing GAS LAB's Carbon Capture solutions, the IWPP can convert waste flue gases into a stable and consistent source of CO_2 for the IWPs. This solution eliminates supply chain issues, reduces costs, and ensures a sustainable and secure source of CO_2 for the IWPs.

BENEFITS: The implementation of GAS LAB's Carbon Capture solutions provides several benefits to the IWPP and the IWPs. By converting waste flue gases into CO_2, emissions are reduced, which contributes to a cleaner and more sustainable future for the coastal community. Additionally, the elimination of supply chain issues and the provision of a stable and consistent source of CO_2 ensure cost-effective and secure access to CO_2 for the IWPs. This creates a win-win situation for all parties involved.



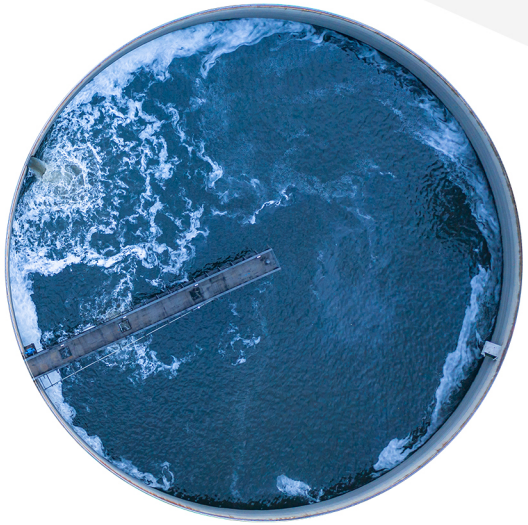
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GAS LAB ASIA

TOGETHER TOWARDS NET ZERO



CARBON CAPTURE MEETS ADVANCED CO_2 DOSING



ABOUT GAS LAB

With over two decades of experience in the desalination industry, we at GAS LAB are proud to be leaders in CO_2 technology in the sector. Our complete CO_2 solutions are customized to meet plant specific requirements, focusing on high efficiency and reliability. From CO_2 production plants to advanced dosing and storage solutions, we serve a comprehensive range of desalination needs.

A first in the sector, our Carbon Capture solutions are enabling clients to achieve their Net-Zero goals while reducing the per m^3 cost of desalinated water.

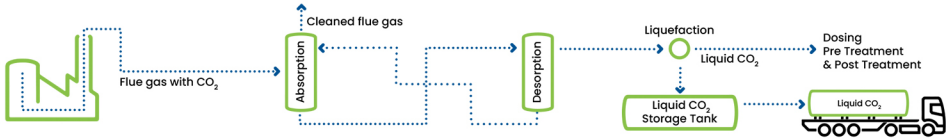
At GAS LAB, we are committed to innovation and delivering value. Our in-house research facility, endorsed by the Ministry of Science and Technology in India, allows us to continuously develop and improve leading-edge technologies. Our team of highly qualified professionals bring the kind of industry experience to innovation, that the ever-ambitious desalination sector demands today.

Our robust production facility is approved by ASME and PED, ensuring that our clients receive the highest quality products at excellent value. Our systems are fully modularized and optimized for total cost of ownership, delivering both incredible ease of installation and lowest lifecycle cost. Our diversified global experience in mega-SWRO projects allows us to conform to the most stringent international design and quality standards.

Service and support are key to our value proposition, which is why we offer world-class after-sales service, 24x7x365. Our Practrack® platform provides insight into plant performance and economics, along with remote monitoring and diagnosis.

Innovation meets experience. Choose GAS LAB for unmatched expertise, leading-edge tech, and quality in CO_2 technology solutions for the desalination industry.

IPP/IWPP



IWP

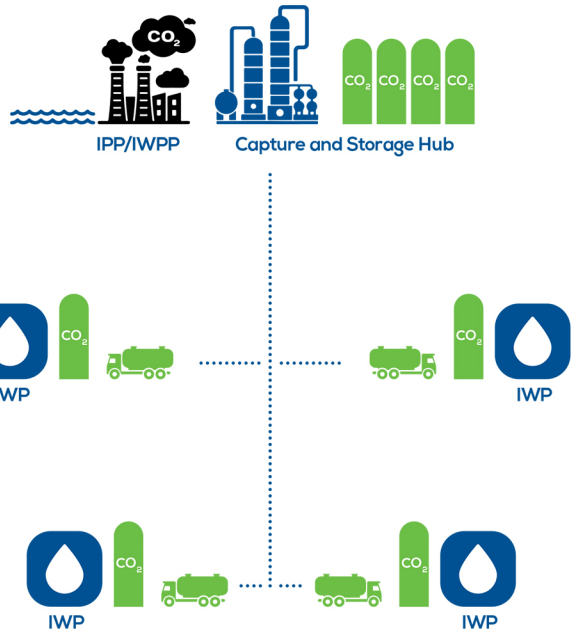


CARBON CAPTURE MEETS ADVANCED CO_2 DOSING

Achieve your sustainability goals with GAS LAB's Carbon Capture and advanced dosing solutions. Our Carbon Capture plants capture CO_2 from flue gases, helping power plants achieve Net-Zero goals while reducing emissions. Our plants can be retrofitted with existing plants making them more sustainable, cost-efficient, and environmentally friendly. With our Carbon Capture technology, you can produce clean, renewable energy and contribute to a healthier planet.

Our Advanced CO_2 Dosing Solutions CISx® is designed to retrofit existing Desalination Plants, making them more sustainable and environmentally friendly. By using CO_2 for pH equilibrium and remineralization, CISx® guarantees a minimum dissolution efficiency of 95%, producing clean, renewable water with cost savings and operating efficiencies.

GAS LAB is proud to be at the forefront of delivering CO_2 solutions for the Desalination Industry. With our carbon capture technology incorporated into CISx®, we offer a reliable and effective solution that helps our clients become more sustainable and environmentally friendly.



CARBON CAPTURE FOR IWPPs / IPPs

- Support your NET-ZERO goals
- Generate Carbon Credits
- Secure your upstream supply chain
- Reduce per m^3 desalinated water cost

ADVANCED CO_2 DOSING FOR POST TREATMENT

- Highest dissolution efficiency of min. 95%
- Avoid expensive absorption equipment
- Fastest adjustment to chemical change
- Avoid corrosive and hazardous acids