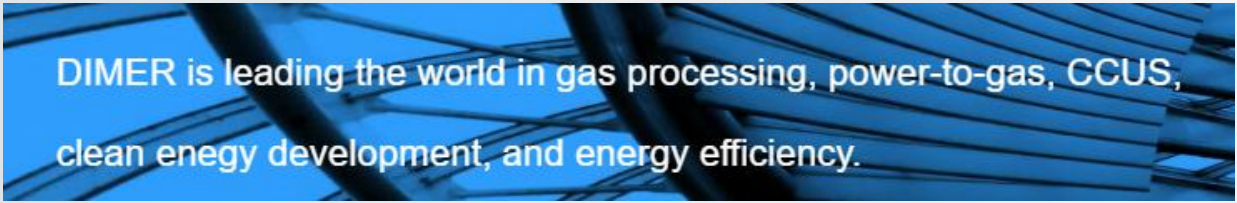


The background features a series of concentric, overlapping circles in shades of light blue and white, creating a sense of depth and movement. Scattered throughout the scene are several 3D cubes, some in light blue and others in white, which appear to be floating or orbiting. The overall aesthetic is clean, modern, and technical.

DIMER

A horizontal banner with a blue background, overlaid with a network of dark, industrial-looking pipes or cables that recede into the distance, creating a perspective effect.

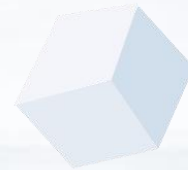
DIMER is leading the world in gas processing, power-to-gas, CCUS,
clean energy development, and energy efficiency.

01

About Us



THE PART ONE





Dimer Technologies was founded by leading experts originally from Australia's CSIRO and National Research Centre of Greenhouse Gases (CO2-CRC), and have continuing cooperation with Australian CO2-CRC, Commonwealth Scientific and Industrial Research Organization (CSIRO), Air Products & Chemical of USA, Norton Engineering of USA, The University of Melbourne and Monash University.

State-of-the-Art R&D Facilities and world-leading Labs

DIMER has advanced R&D facilities and world-leading labs backed up by SINOPEC-Tianjin, UniMelb, CSIRO, CO2-CRC and Monash for design and development of superior gas technologies. DIMER's R&D strengths include advanced materials, process design and engineering, technology industrialization, and tailor-made technology & engineering solutions.



DIMER has developed the state-of-the-art gas technologies on separation and capture of greenhouse gases (such as CO₂, CH₄, VOCs), hydrogen recovery and purification, renewable power-to-H₂, natural gas purification and recovery, CCUS, oxygen enriched combustion and CH₄ liquification.

DIMER's gas technologies were granted the patents from Australia, USA, and Europe etc. (USA patent No. 20110005389; Intl No.PCT/AU08/01831 (covering USA, China, India and Europe); Australian patent No. 2008336265 + No.2013201122/No.2016201267; Chinese patents No.201611219796.5 + No.201621438243.4. DIMER has the full ownership or exclusive execution rights of these patents.

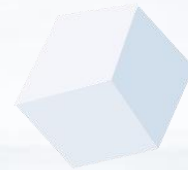


02

Technologies



THE PART TWO





Gas Processing Technologies

DIMER has developed superior gas processes and advanced materials for

- Low carbon energy gas (such as H₂, CH₄ and hydrocarbons)
- Treatment of industrial off-gas
- Gas condensation or liquefaction
- Carbon capture and CCUS





Power-to-Gas Technologies

Targetting energy storage and hydrogen energy application, DIMER builds up novel technologies and engineering capability of

- Renewable power to hydrogen (Power-to-H₂)
- CCUS to MeOH or methanation
- Hydrogen energy applications

Clean Energy Development

DIMER is teaming up with TeraSolar and partners to build renewable electricity/steam/hot-water for community, industrial and agricultural applications.

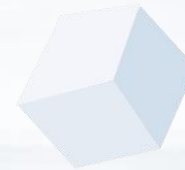
- Solar thermal energy
- Microgrid & micro-energy system

03

Projects



THE PART THREE





DIMER specializes in the design, development and engineering of processing and power-to-gas technologies for industrial gas production and off-gas treatment.

Compared to conventional technology, DIMER solutions provide higher efficiency, lower pressure and lower running-cost when producing, capturing, separating and condensing various industrial gases (such as H₂, CH₄, CO₂ and VOCs).

DIMER's innovative solutions have been applied in both Australia and around the world.

H₂/CH₄ recovery and CO₂ capture from refinery tail-gas

SINOPEC, Stage 1: 2015 - 2017; Stage 2: 2018 – present.

Refinery process uses general PSA to produce hydrogen via steam methane reforming. The hydrogen and methane is usually used for down-stream processes. However, this PSA-H₂ system produces a large amount of combustible tail-gas (e.g., 31% H₂ and 49% CO₂). DIMER has developed an advanced VSA/PSA system for SINOPEC-Tianjin to recover hydrogen and methane and capture CO₂ from the tail-gas. This technology is helping SINOPEC reduce their greenhouse gas emission, as well as create hydrogen-based clean energy.





Industrial waste-gas management

2019 - Present



Smart microgrids based on H2 energy and/or BESS

2018 - Present



Thank you

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