

# KBR's Innovation & Process Intensification for Carbon Capture

# **BENEFITS**



### **ECONOMICS**

Reduced CAPEX and OPEX costs



## **SCALABILITY**

The small modular design means facilities can be scaled up while keeping a small physical footprint compared to other technologies



# **KBR SOLUTIONS**

Compression, transfer, storage, and utilization options along with blue hydrogen and blue ammonia



# **PARTNER**

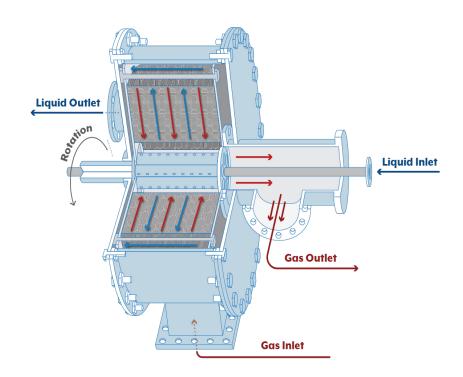
Hindustan Petroleum Corporation Limited KBR's new process intensification technology is an advanced technology solution for post-combustion CO<sub>2</sub> capture utilizing a rotating packed bed (RPB) and advanced solvent technology.

# **ABOUT THE TECHNOLOGY**

The rotating packed bed (RPB) contains a disk of metal packing. The packing rotates creating a centrifugal force, which significantly improves the mass transfer between CO<sub>2</sub> gas and liquid solvent which provides an improved removal of CO<sub>2</sub> from industrial processes.

The improved performance is a result of applying centrifugal forces to the solvent that far exceed the conventional gravity systems.

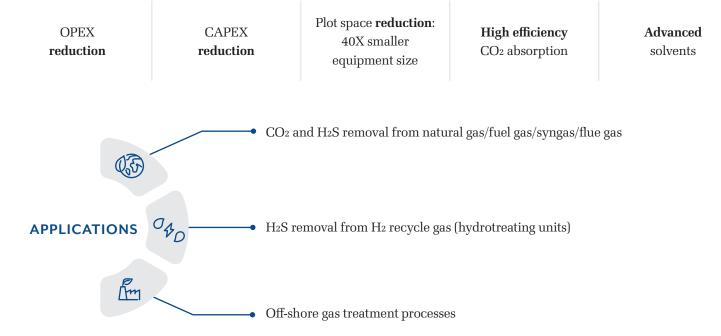
# **HOW DOES THIS WORK?**



- Rotating disk with packed bed material
- Solvent flows from center of disk radially towards the outer edge
- Incoming gas from inlet flows in opposite direction contacting the solvent
- Improved absorption of CO₂ into the solvent for removal

# Carbon Capture

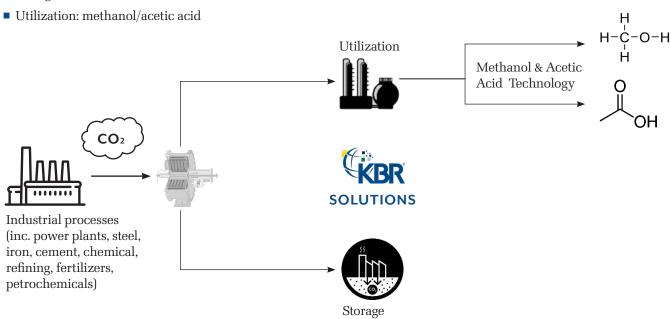
### **ADVANTAGES**



# **SOLUTIONS**

KBR provides the solutions for your CO2 needs

■ Storage



## kbr.com

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