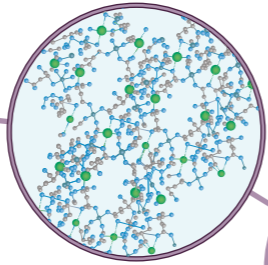
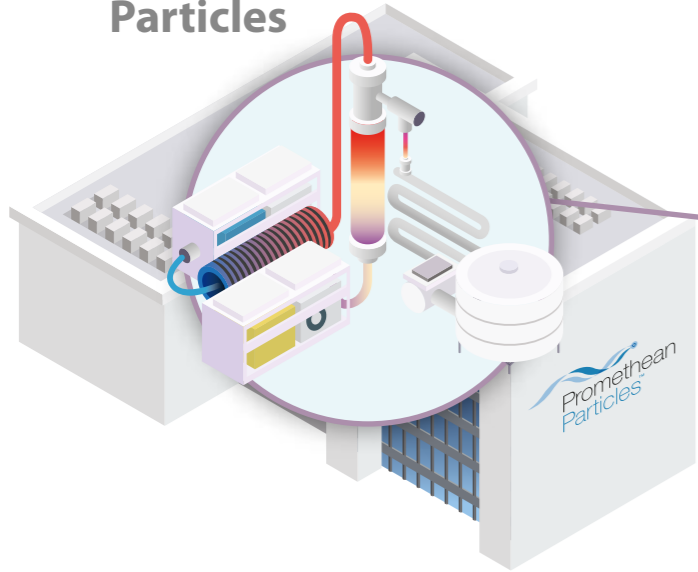


# MOF Production by Promethean Particles

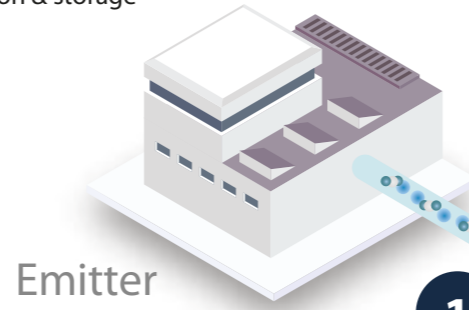
## MOF Structure



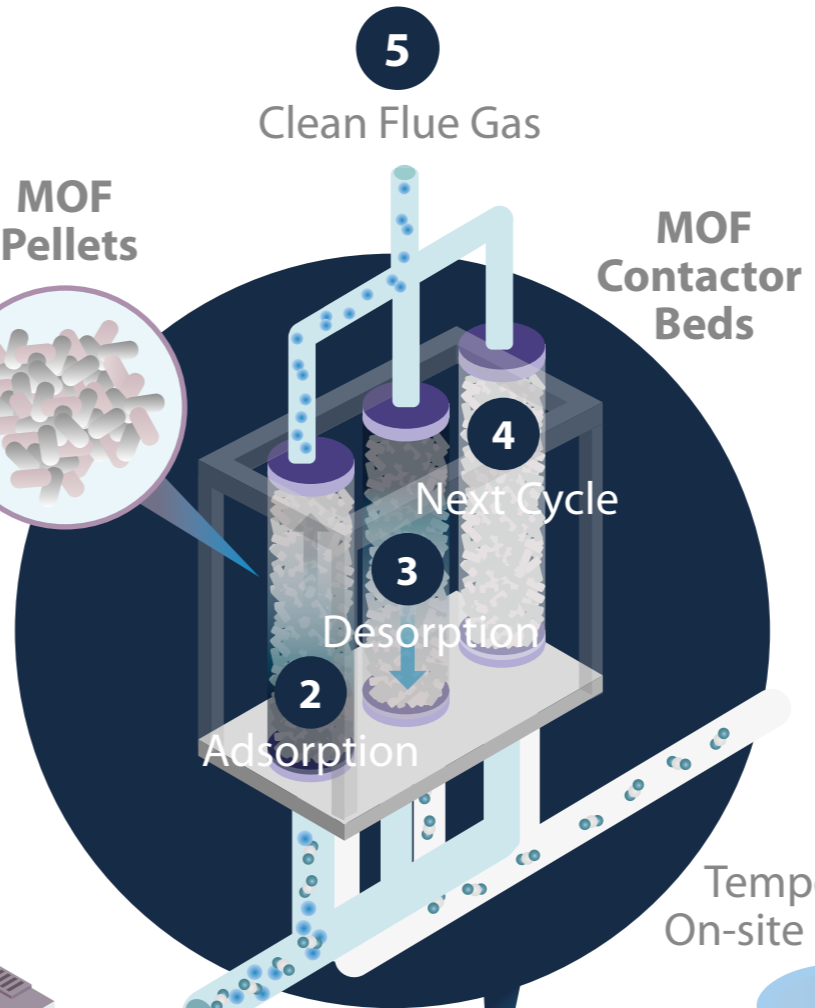
## MOF Pellets



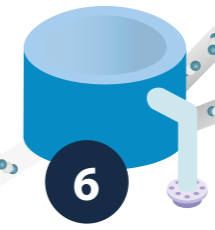
- 1 Flue gas continually flows to the MOF-based CCS system
- 2 CO<sub>2</sub>-rich flue gas enters a column of MOF pellets which capture the CO<sub>2</sub>
- 3 Once saturated, a bed goes into a regeneration/desorption mode
- 4 After desorption, bed is ready for the next cycle
- 5 "Clean" flue gas stripped of CO<sub>2</sub> is released into the atmosphere
- 6 Stripped CO<sub>2</sub> is sent to temporary on-site compression & storage
- 7 CO<sub>2</sub> can then be transported to off-site, further used, or sequestered



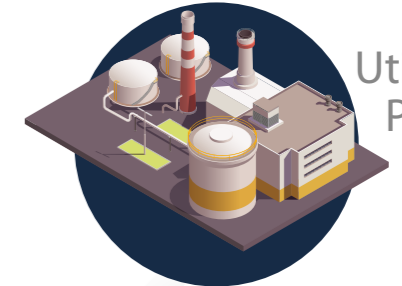
1  
Flue Gas



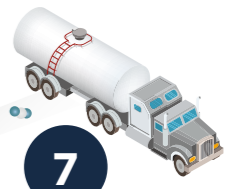
Temporary On-site Storage



6  
Underground Sequestration



Utilisation Process



7  
Transport Off-site