

# CARBON DIOXIDE PURIFICATION AND DRYING



ISO 9001 CERTIFIED

CRN



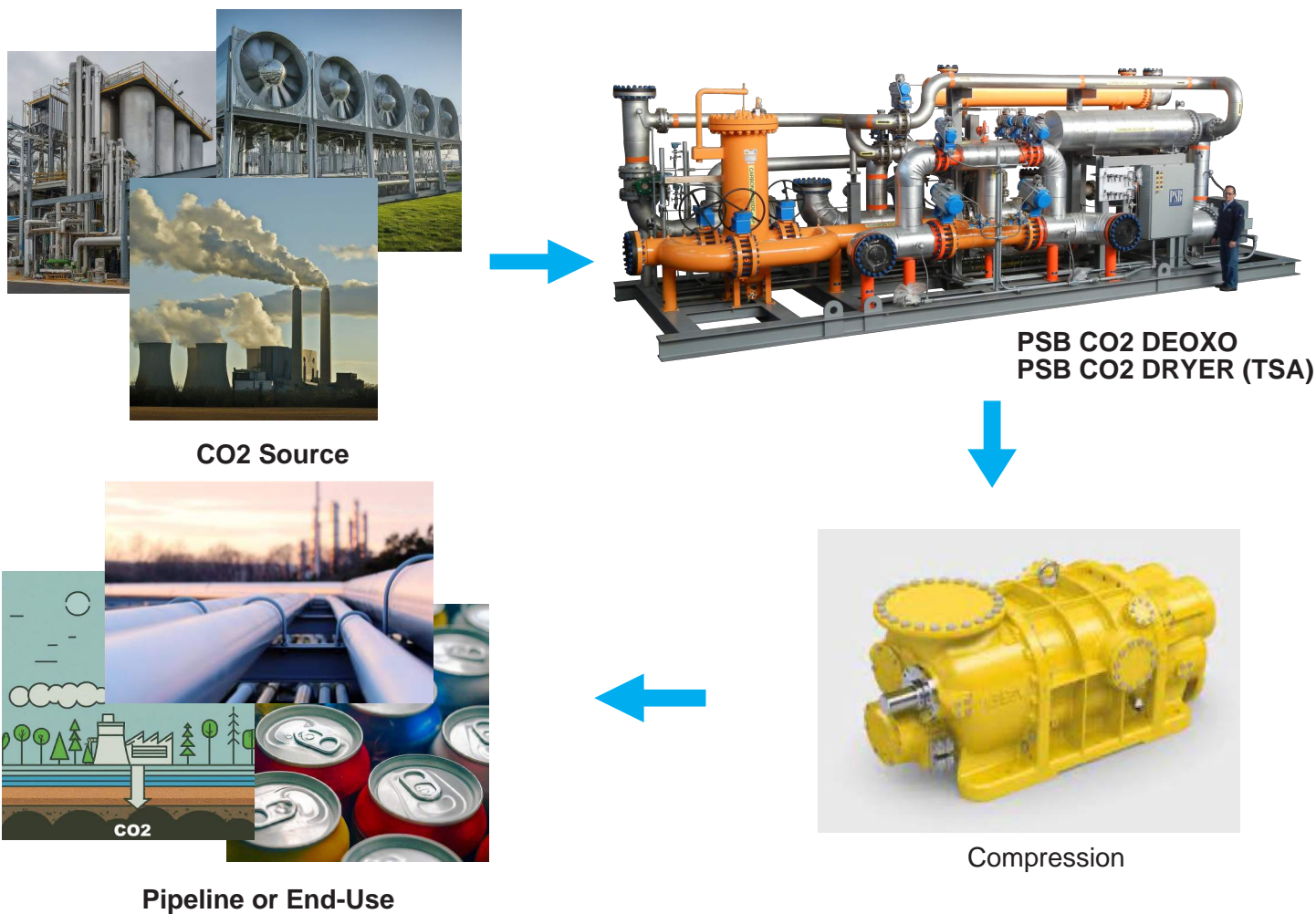
# Carbon Dioxide Purification and Drying

Carbon Dioxide is a major source of pollution and contributes to climate change. Amongst the various sources, coal fired plants, steel and cement industries emit the highest amounts of CO<sub>2</sub> into the atmosphere. CO<sub>2</sub> from these sources is captured and separated from flue gas or off gas via various technologies followed by compression. Clean HUK JVTWYL<sub>2</sub> saturated with water which needs removal prior to pipeline injection.

7:) Z\WWSPLK ;LTWLYH[\YL :^PUN<sub>2</sub> dryers have the capability to remove moisture from the gas MYVT ZH[\YH[LK SL]LSZ KV^U [V # WWT] +LWLUKPUN VU [OL V\ [SL[ ^H[L Z[YH[LNPLZ [V LUZ\YL aLYV NHZ LTPZZPVU SVZZ ( \UPX\L T\ S[P SH`LYLK ZWLJPÄJH[PVUZ HYL TL[ ^P[O LHZL ^P[O YLSH[P]LS` SV^ VWLYH[PUN L\_WL

PSB CO<sub>2</sub> dryer package can include upstream coolers and separators to pre-cool the gas. Typical dryer inlet conditions range from 200 psig to 700 psig and from 50 F to 115 F. Values outside of this range can be handled as well.

For **Direct Air Capture** projects, there is oxygen present in the CO<sub>2</sub> gas stream which, depending on the pipeline ZWLJPÄJH[PVUZ LUK \ZLY TH` U<sub>2</sub> Dekx-CO<sub>2</sub> package can remove oxygen from the gas via O`KYVNLU VY UH[\YHS NHZ PUQLJ[PVU KV^U [V # WWT] OM V`\_ NLU HUK CO<sub>2</sub> and Dryer package can be a cost effective solution for removal of oxygen and moisture.



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