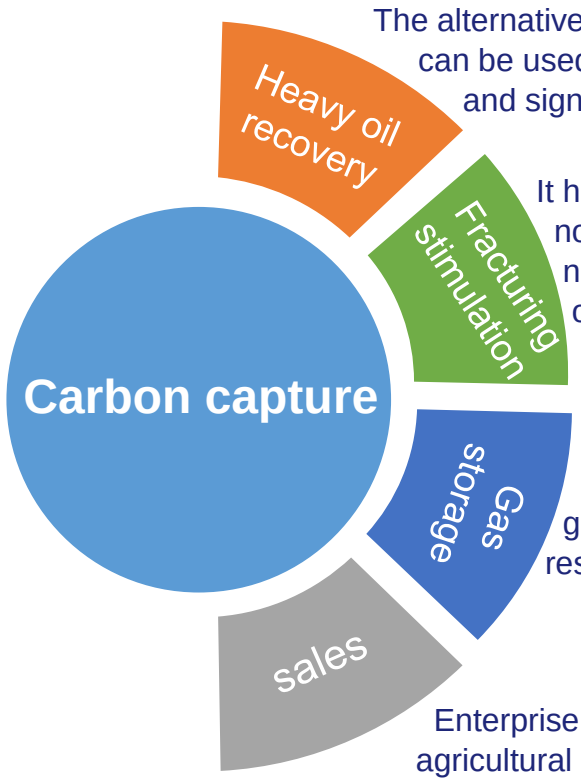
新安绿能
Xin'an Green Energy

CCUS (carbon capture, storage, Utilization)

Carbon capture, utilization and storage

- ✓ The carbon dioxide recovery technology combined with adsorption method and organic solution has high recovery purity
- ✓ The whole system is controlled by DCs, which fully adapts to the fluctuation of carbon dioxide content in industrial tail gas, improves the recovery rate and saves energy



The alternative injection with water can be used in a large range, low cost and significant increase of recovery

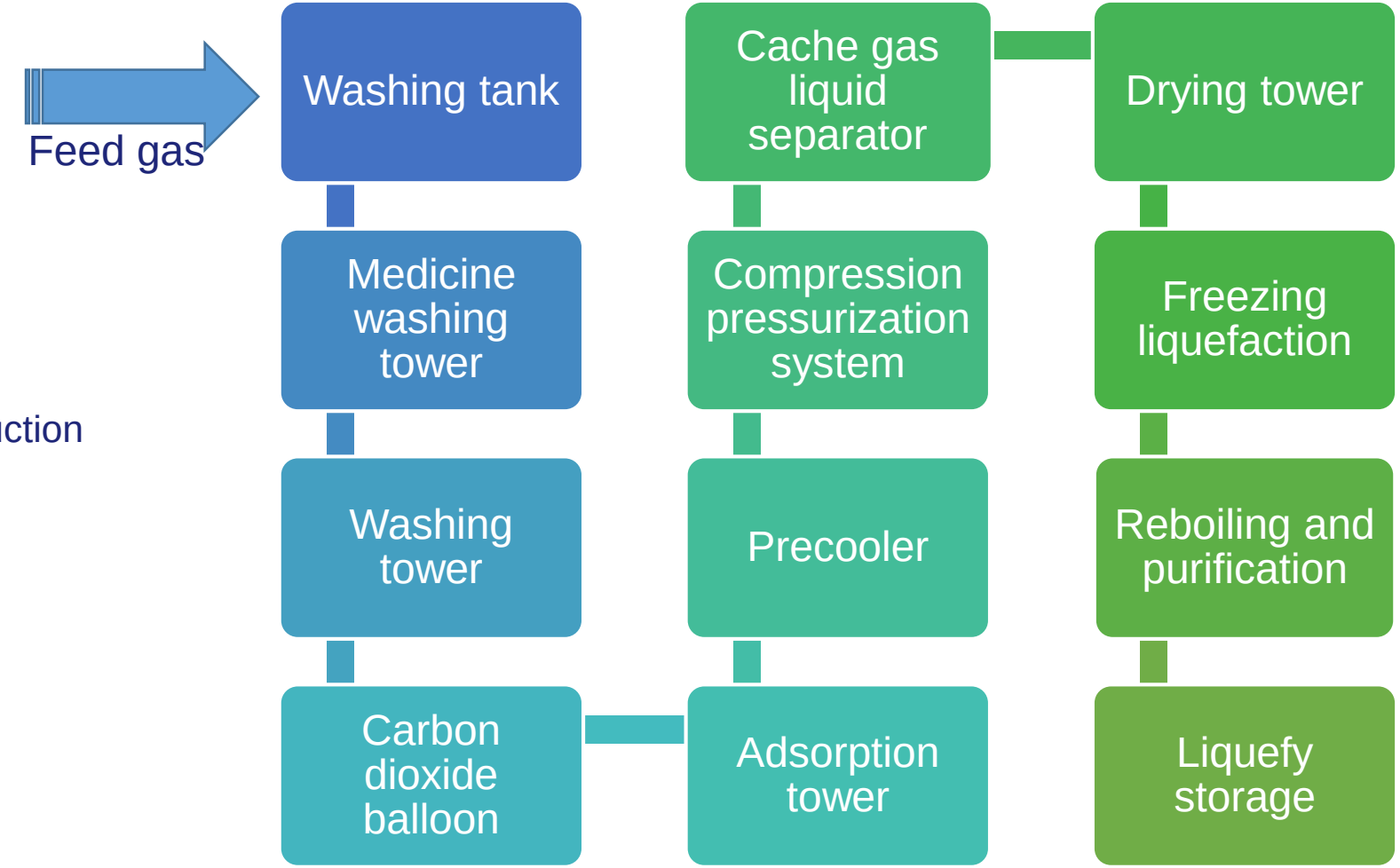
It has the advantages of no residue, no water phase, fast flowback and no damage to the reservoir, so it has obvious advantages in environmental protection and reservoir increase

Construction of underground gas storage, or sealed in abandoned gas reservoirs

Enterprise recycling for food processing, agricultural breeding, etc

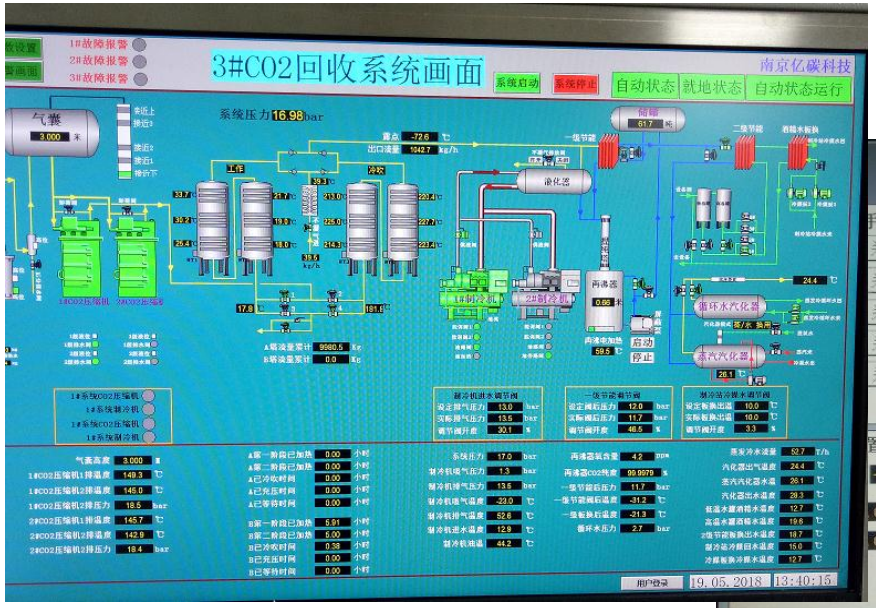
Carbon capture, utilization and storage

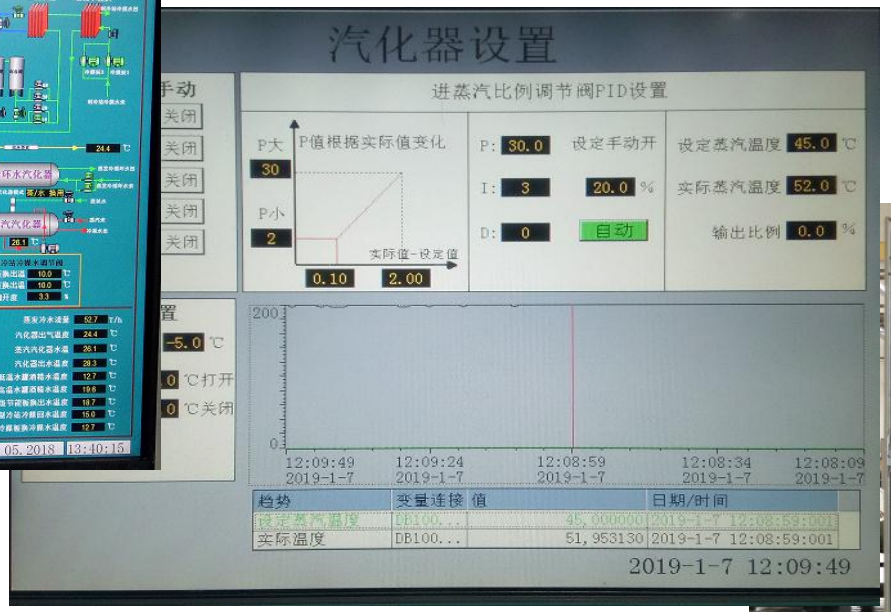
- Rich gas (CO_2 content > 75%)
  - fertilizer
  - fermentation
  - petrochemical industry
  - chemical industry
  - oil and gas
- Medium gas (45% - 75% CO_2)
  - intermediate gas for hydrogen production
  - coal gas
  - biogas
- Poor gas (6% - 45% CO_2)
  - boiler
  - generator
  - lime kiln

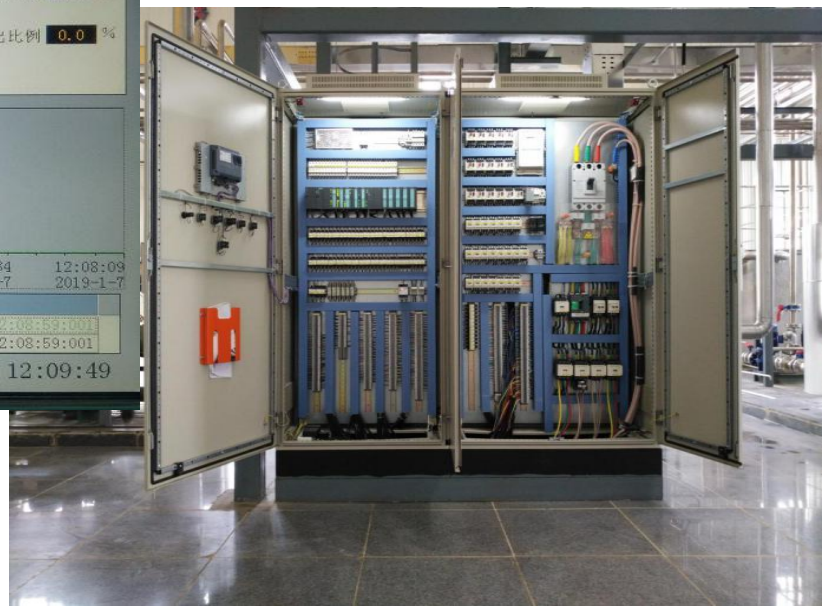


Carbon capture, utilization and storage

- DCS monitoring and automatic control system can realize unattended, greatly reducing the cost of workers and error rate

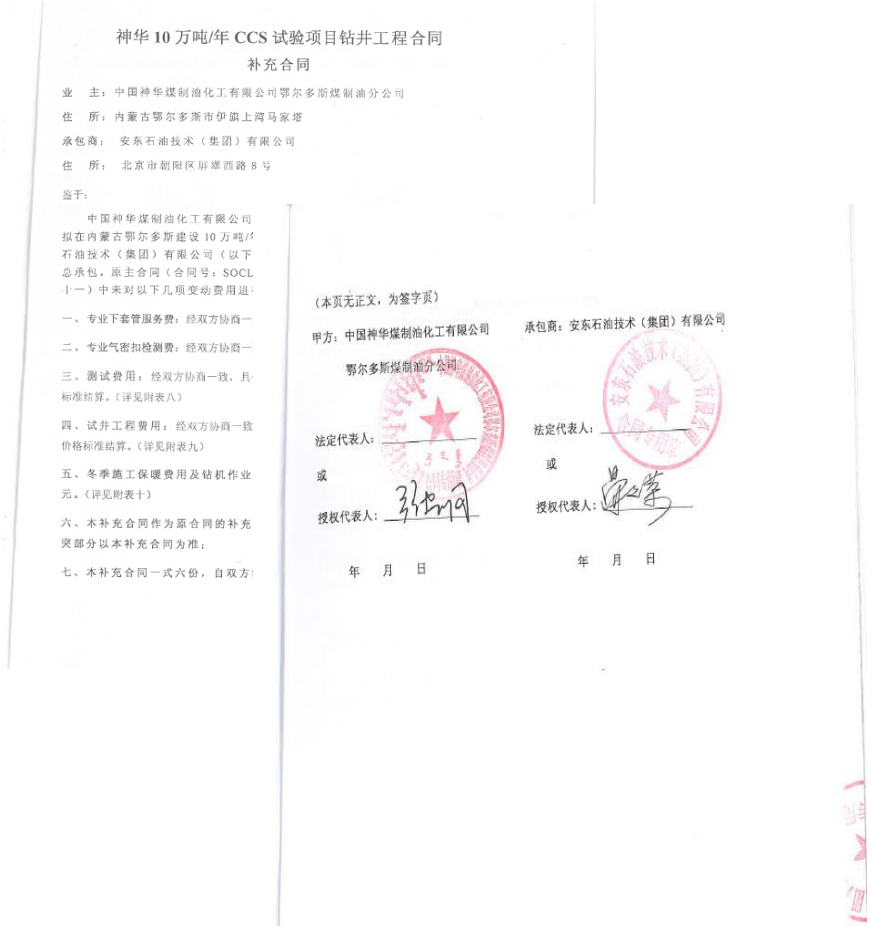






Carbon capture, utilization and storage

China Shenhua 100,000 tons/year CCS demonstration project



神华 10 万吨/年 CCS 试验项目钻井工程合同

补充合同

业　主：中国神华煤制油化工有限公司鄂尔多斯煤制油分公司

住　所：内蒙古鄂尔多斯市伊旗上湾马家塔

承包商：安东石油技术（集团）有限公司

住　所：北京市朝阳区屏翠西路 8 号

签于：

中国神华煤制油化工有限公司
拟在内蒙古鄂尔多斯建设 10 万吨/
石油技术（集团）有限公司（以下
总承包。原主合同（合同号：SOCL
（十一）中未对以下几项变动费用进

一、专业下套管服务费：经双方协商一

二、专业气密扣检测费：经双方协商一

三、测试费用：经双方协商一致，具
标准结算。（详见附表八）

四、试井工程费用：经双方协商一致
价格标准结算。（详见附表九）

五、冬季施工保暖费用及钻机作业
元。（详见附表十）

六、本补充合同作为原合同的补充
突部分以本补充合同为准；

七、本补充合同一式六份，自双方

（本页无正文，为签字页）

甲方：中国神华煤制油化工有限公司

鄂尔多斯煤制油分公司

法定代表人：

或

授权代表人：

年　月　日

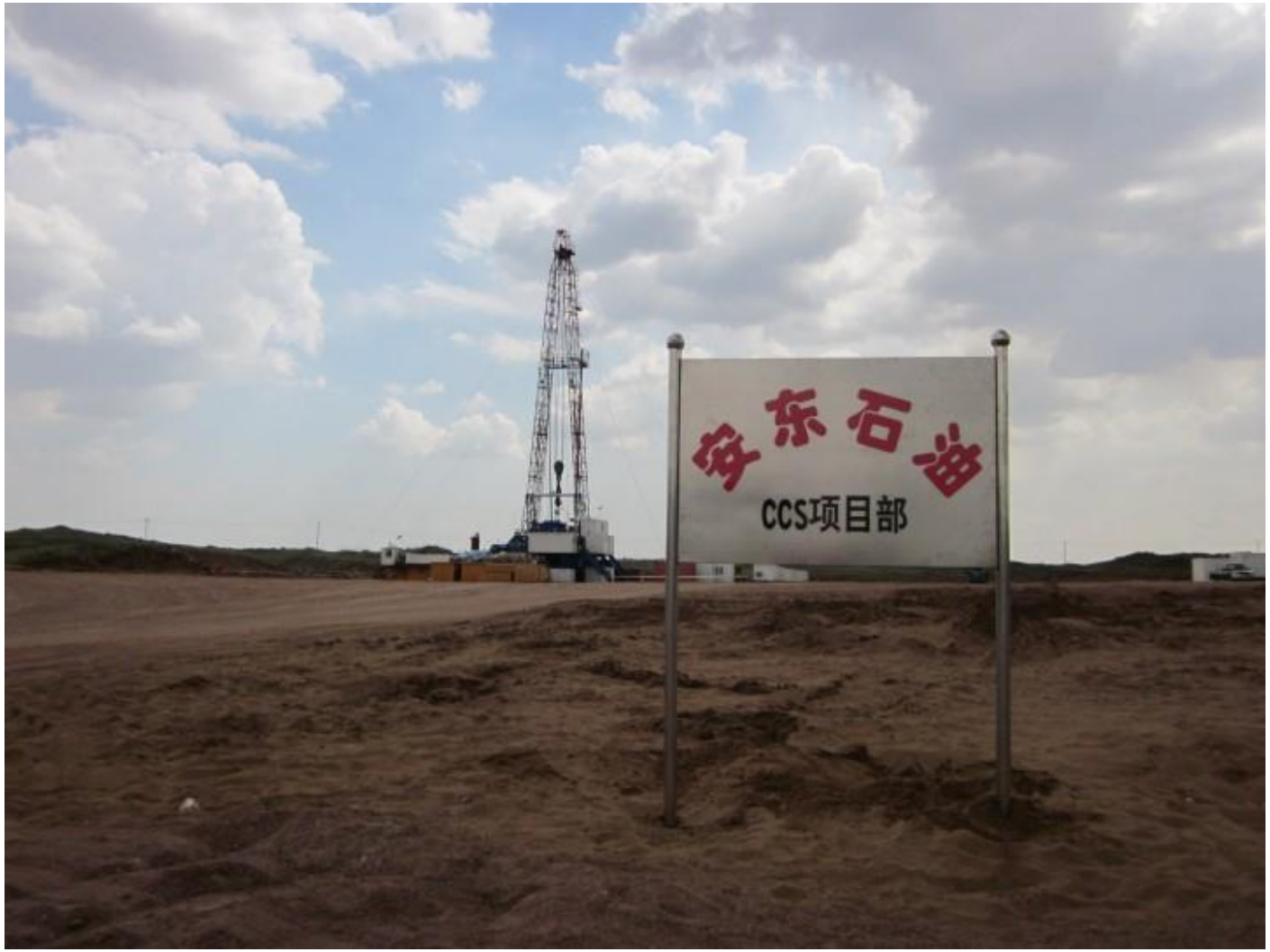
承包商：安东石油技术（集团）有限公司

法定代表人：

或

授权代表人：

年　月　日



ANTON 安東

A paragon of efficient and harmonious development between human and environment

Help others succeed…

www.antonoil.com