Info Sheet

CO_2 Emission Reduction – CCS & CDR
Innovative technologies for a cleaner tomorrow.

---

1. Overview
IPU SA supports clients in achieving their **carbon reduction goals** through tailored solutions in **Carbon Capture and Storage (CCS)** and **Carbon Dioxide Removal (CDR)**. These systems are designed to reduce greenhouse gas emissions from industrial processes, backup power systems, and energy production by either capturing CO_2 before release or removing it from the atmosphere.
Whether integrated into a broader sustainability strategy or applied to diesel-based contingency systems, our CCS/CDR solutions help align your operations with global environmental benchmarks and Vision 2030 sustainability goals.

---

2. Key Features
- Tailored CO_2 capture for diesel generators and industrial exhausts
- Modular absorption or membrane-based technologies
- Real-time monitoring of emissions and system performance
- Integration-ready with existing HVAC or exhaust stacks
- Optional carbon reporting dashboards and alerts
- Engineered for both point-source and ambient CO_2 removal
- Solutions adaptable to future compliance requirements

---

3. Applications
- Diesel generator enclosures and energy hubs
- Industrial facilities with combustion-based processes
- Renewable energy plants seeking carbon neutrality
- Utility backup systems with emissions targets
- Infrastructure sites aligned with Vision 2030 ESG goals

---

4. Integration Capabilities
- Compatible with SCADA, EMS, and environmental monitoring platforms
- Designed to work with IPU SA generator control and polishing systems
- Optional integration with reforestation offsets or carbon credit reporting
- Field-configurable for localized or networked monitoring

---

5. Certifications & Standards
- Built in alignment with **UNFCCC**, **ISO 14064**, and global carbon standards
- Designed to meet national and regional environmental agency guidelines
- System documentation and reporting to support ESG compliance
- Designed with international partners in emission science & clean tech