

Figure 1-2: Site Location Photo – Looking Across Site Toward Stanwell Power Station (Source: Phillips Group)



Figure 1-3: Schematic of CO₂ Storage in the northern Denison Trough (Source: ZeroGen)

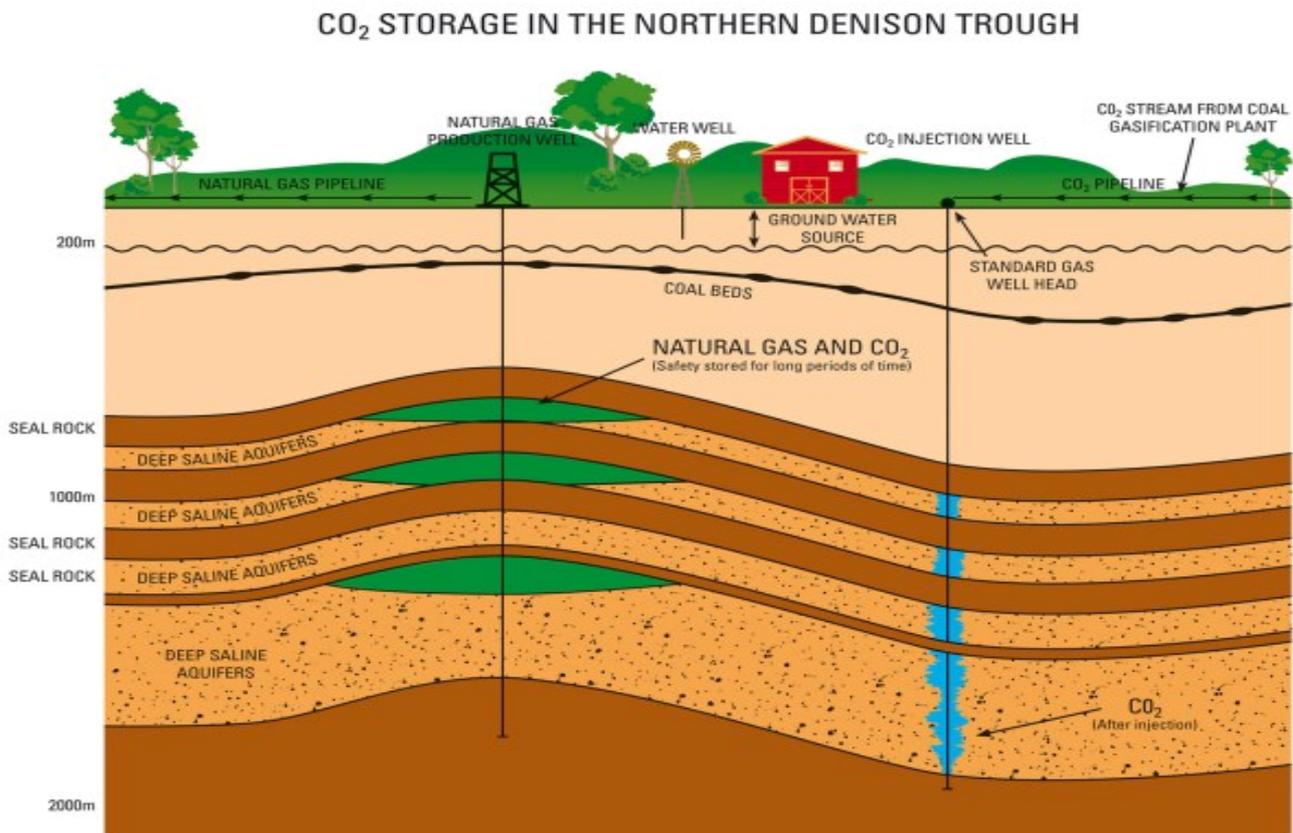
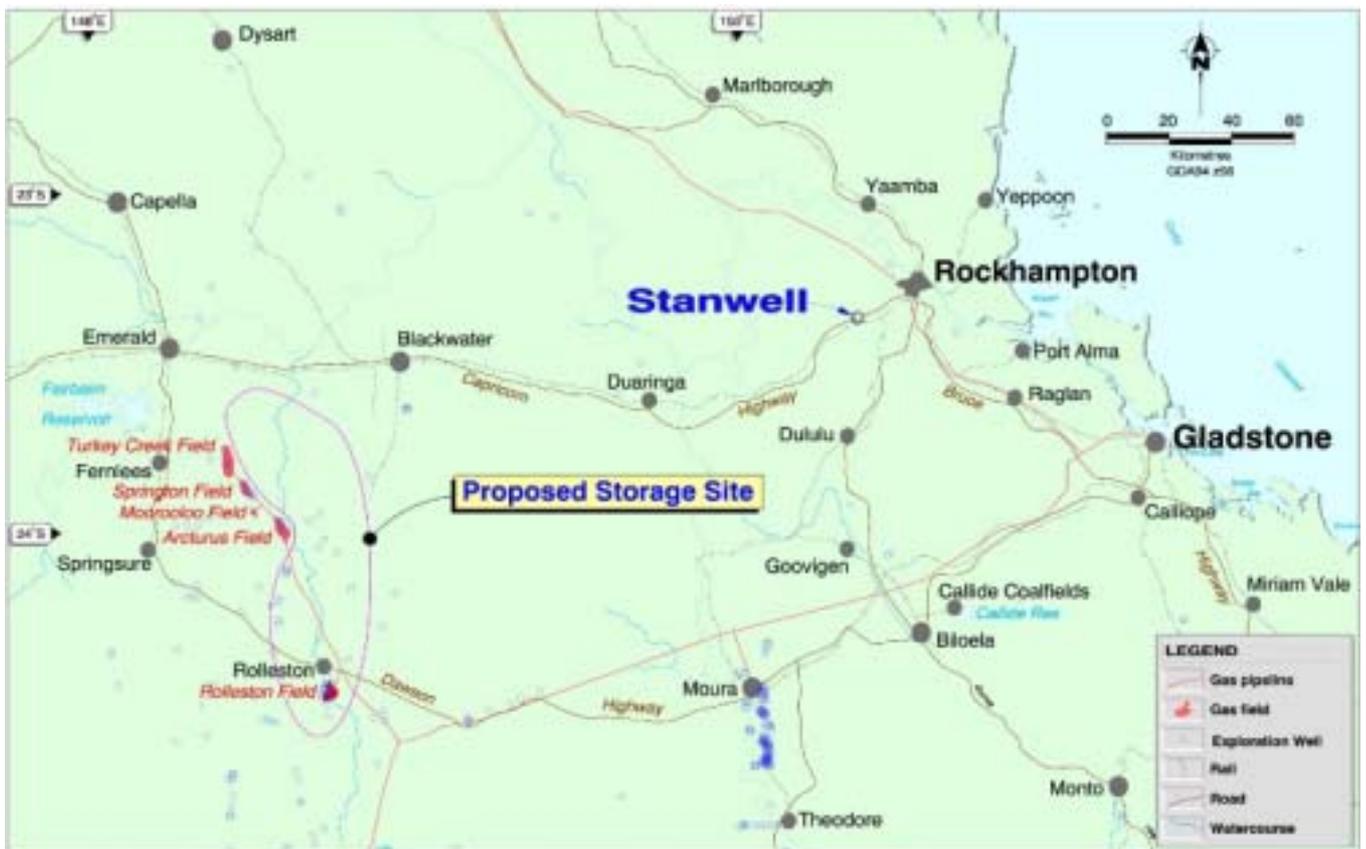


Figure 1-4: Stanwell Power Station (Source: Stanwell Corporation Limited)



Figure 1-5: Northern Denison Trough – Proposed Storage Site (Source: ZeroGen)



Northern Denison Trough - Proposed Storage Site

Figure 1-6: Pipeline Study Route (Source: RLMS)

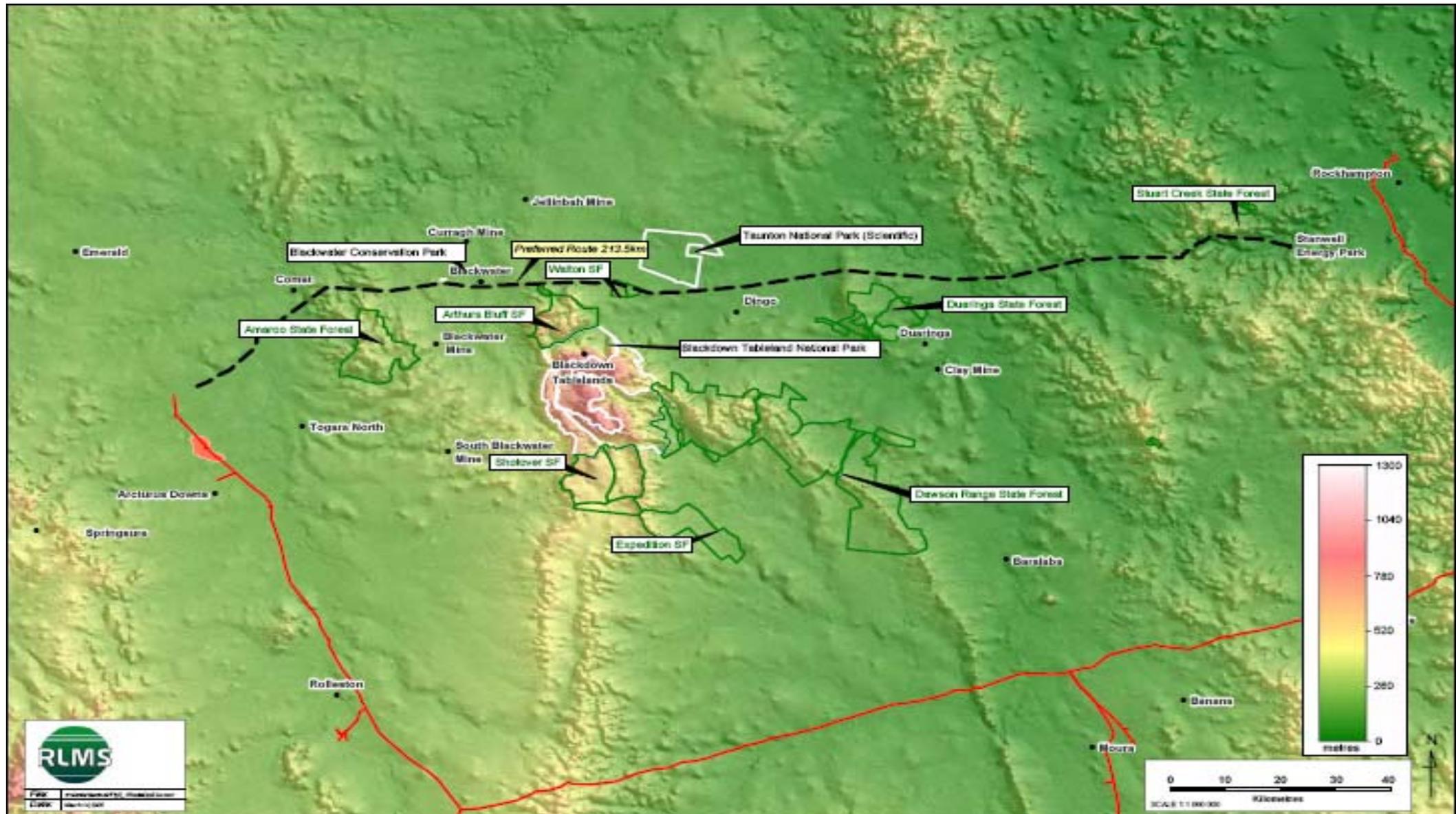


Figure 2-1: Global Average Temperatures (Source: New Scientist)

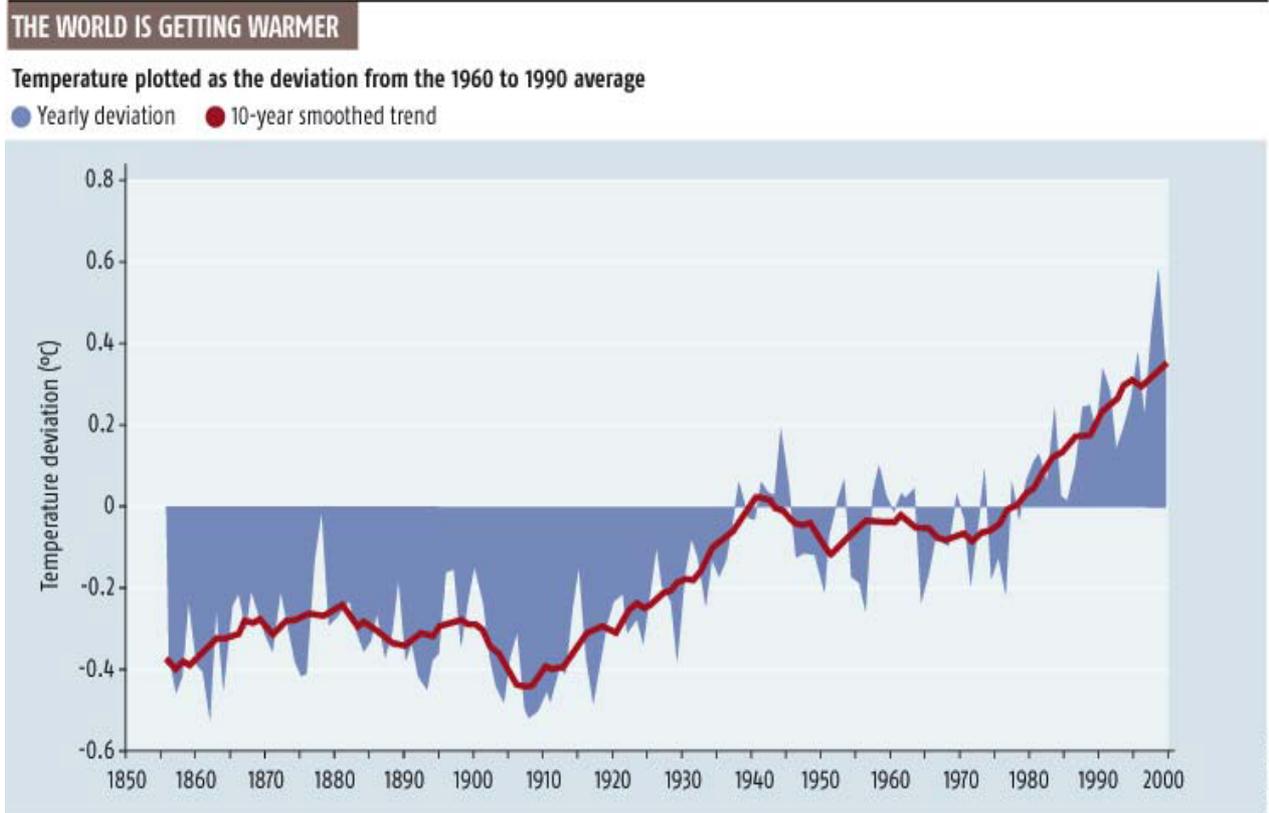


Figure 3-1: Operational and Committed IGCC and CCS Project Comparison (Source: ZeroGen)

Plant	Location	Major Components						
		Air Separation Unit	Entrained Flow Gasifier	Gas Turbine Power Generation	Shift Reaction	High Hydrogen Syngas	Carbon Capture	Carbon Storage
Coal Fired Gasification Based Generation Plants								
Cool Water (decommissioned)	USA	█	█	█				
Willem Alexander (Buggenum)	Netherlands	█	█	█				
Wabash River	USA	█	█	█				
Polk County (Tampa)	USA	█	█	█				
Pinion Pine (decommissioned)	USA		█	█				
Puertollano	Spain	█	█	█				
Nakoso (under construction)	Japan		█	█				
Coal Fired Gasification Based Chemical Plants								
e.g. Dongting	China	█	█		█	█	█	
CO₂ Sequestration								
Sleipner	Norway						█	█
In Salah	Algeria						█	█
Weyburn	Canada	█	█				█	█
Frio Brine	USA						█	█
Integrated Gasification and Sequestration								
ZeroGen	Australia	█	█	█	█	█	█	█
FutureGen	USA	█	█	█	█	█	█	█

Figure 3-2: EPRI IGCC Plant Improvements and Capital Costs Roadmap (Source: Doan, T. and Jenkins, C., 2006, Outlook for the Economic and Environmental Performance of the NEM in 2030: Discussion Paper No. 82, Stanwell Corporation Limited)

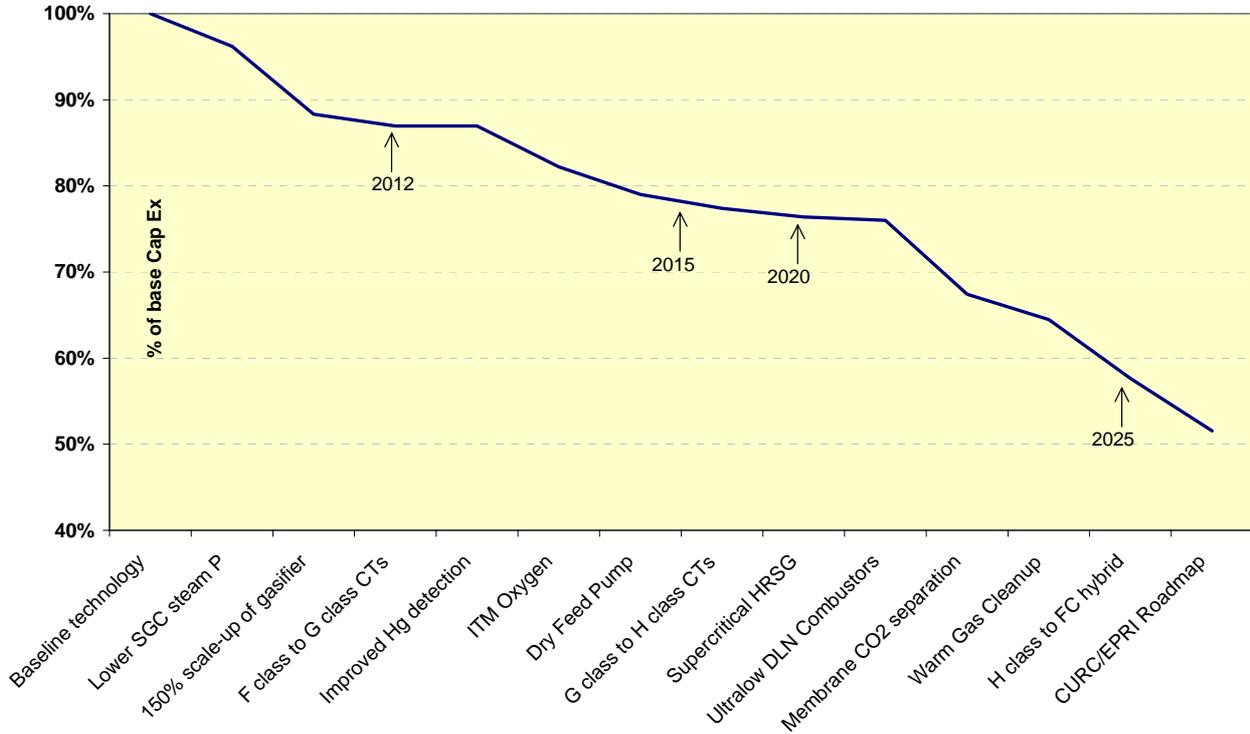


Figure 4-1: ZeroGen Gasification Power Generation Facility (Simplified) (Source: Developed by ZeroGen)

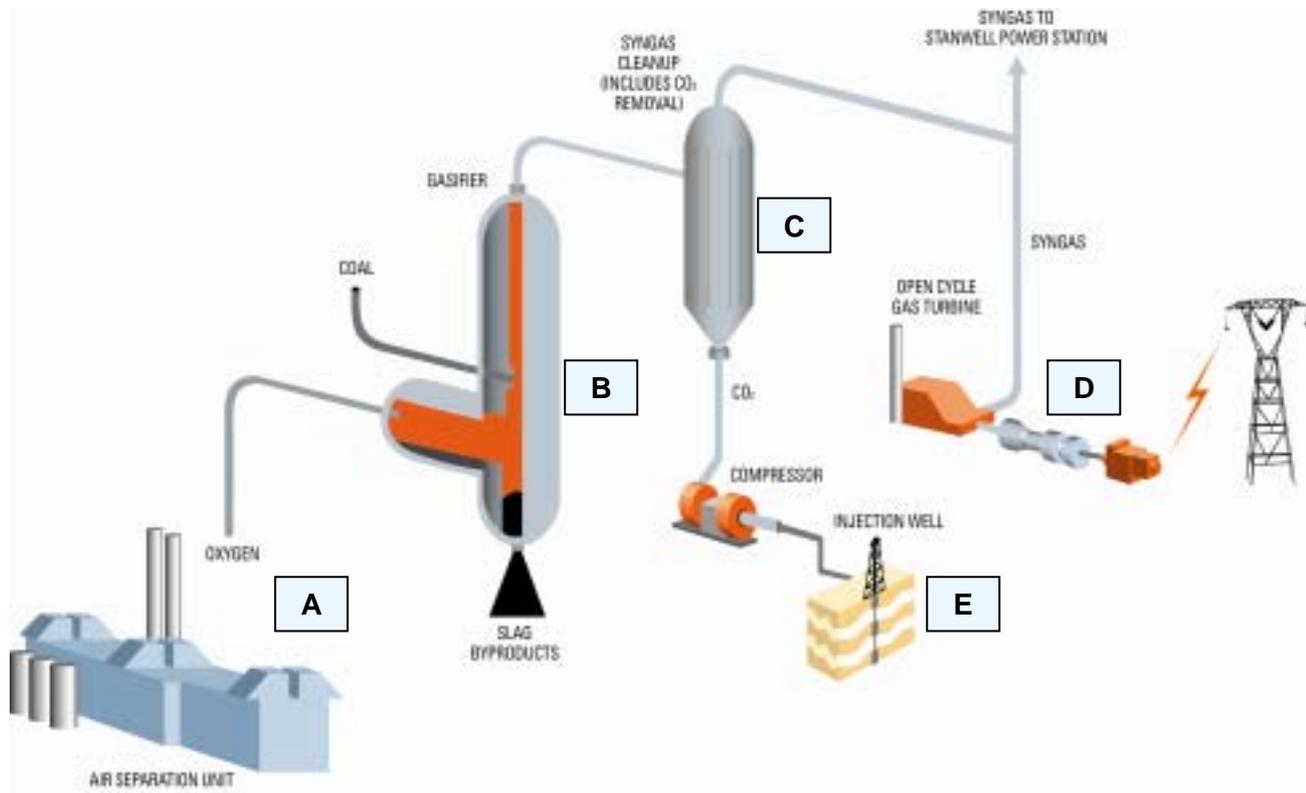


Figure 4.2: ZeroGen Gasification Power Generation Facility (Processing Steps) (Source: Developed by ZeroGen)

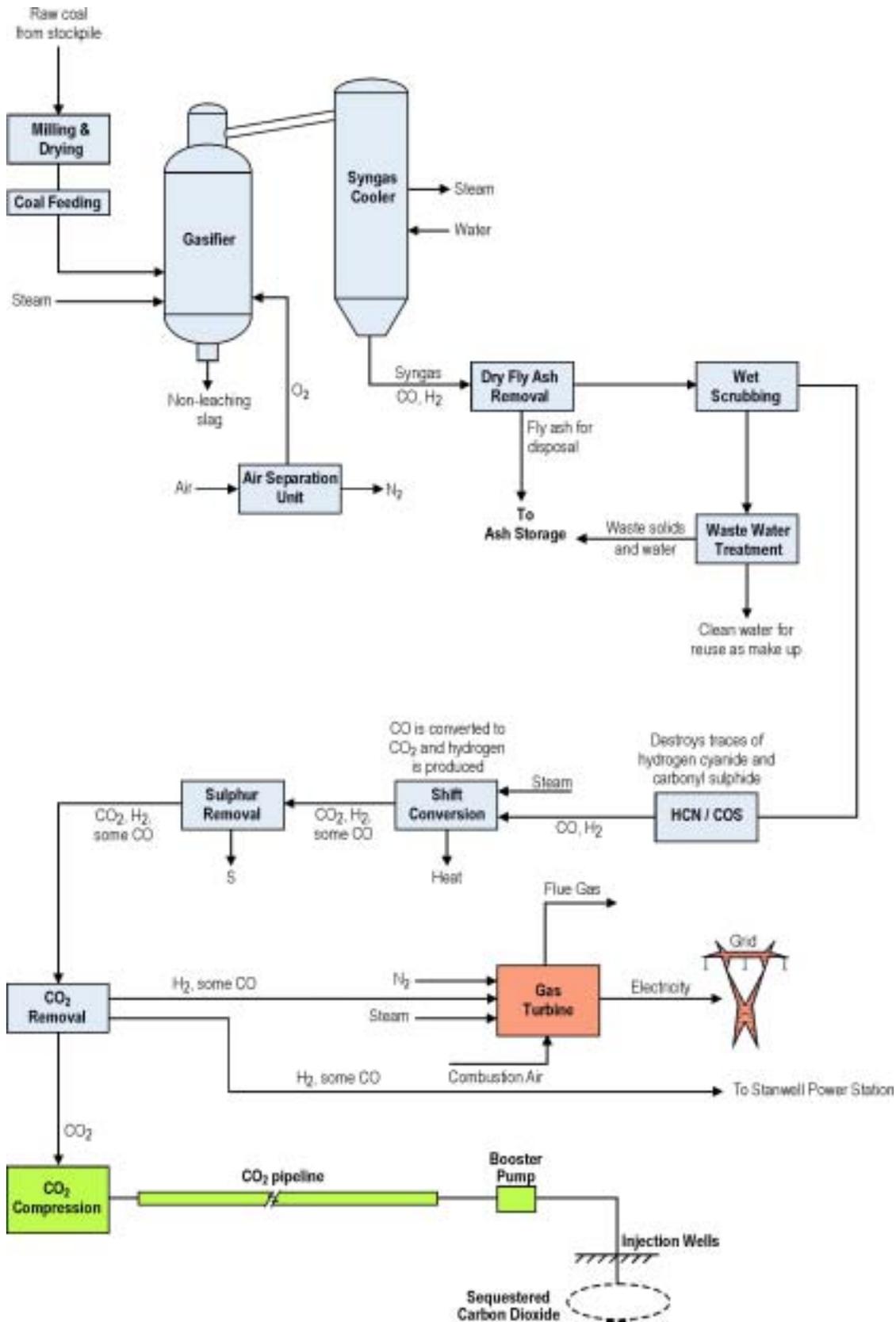


Figure 4-3: ZeroGen Demonstration Plant Preliminary Overall Site Layout & Aerial Photography (Source: ZeroGen)

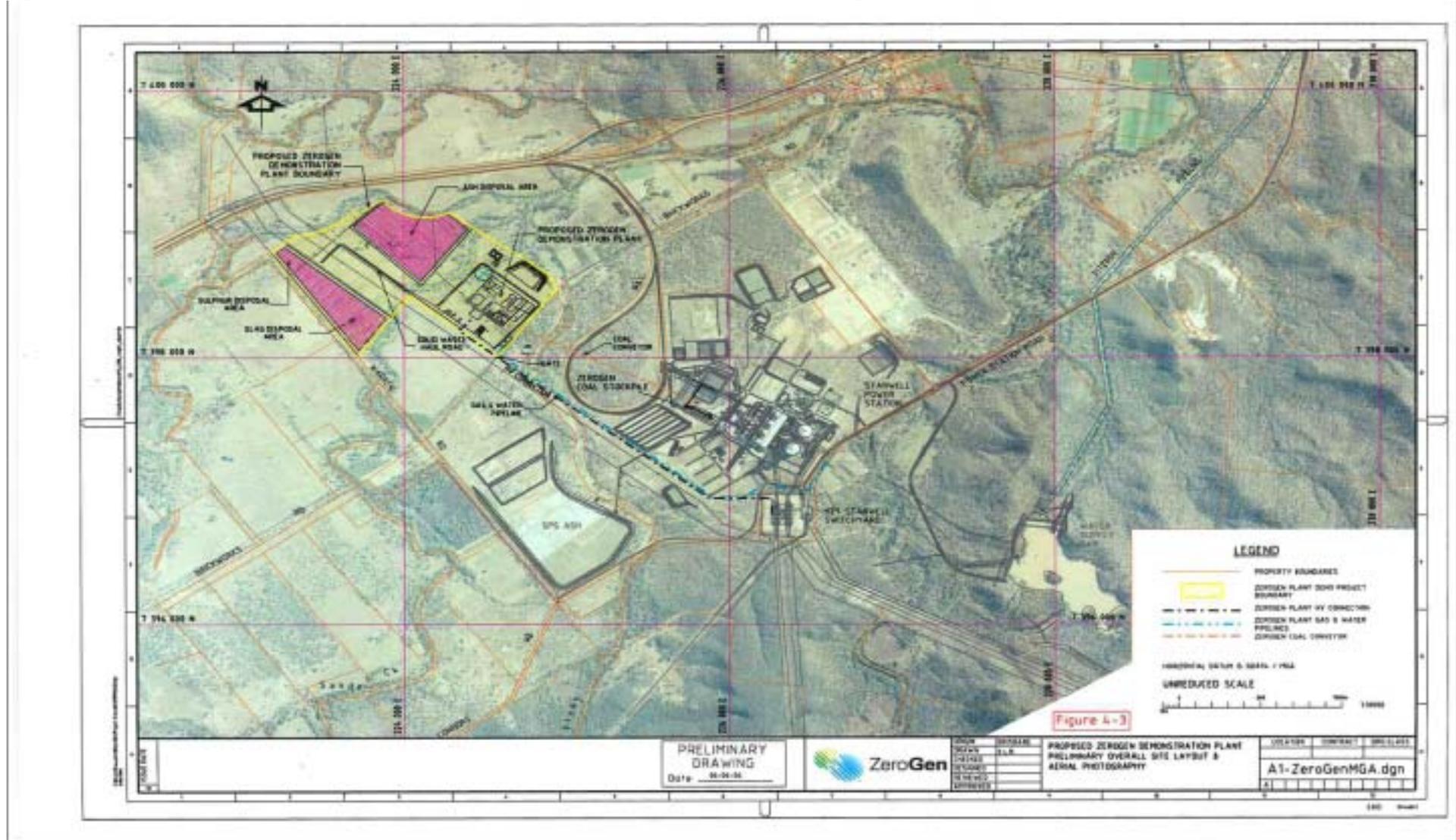


Figure 4-4: Construction Procedures for Pipelines (Source: RLMS)

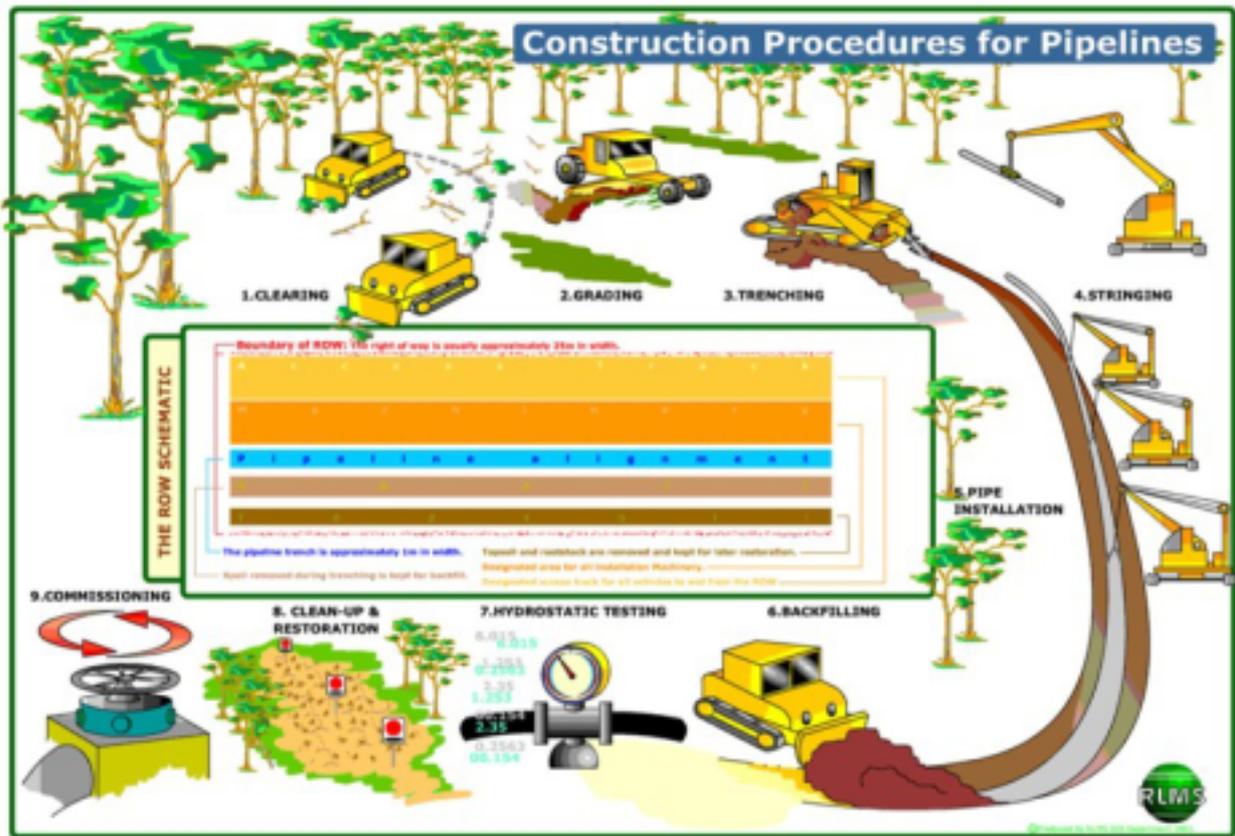


Figure 4-5: Typical pipeline construction activities (Source: RLMS)

