





























































	Criterion	Classes					
		1	2	3	4		
1	Tectonic stability	Very unstable (e.g. subduction)	Unstable (e.g. syn-rift, intermontane, strike-slip)	Intermediate (e.g. foreland)	Mostly stable (e.g. passive margin)	Stable (e.g. cratonic)	
2	Size	Very small (<1000 km ²)	Small (1000- 5000 km ²)	Medium (5000-25000 km ²)	Large (25000– 50000 km ²)	Very large (>50000 km ²)	
3	Depth	Very shallow (<300 m)	Shallow (300- 800 m)		Deep (>3500 m)	Intermediate (800-3500 m)	
4	Reservoir-Seal Pairs	Poor		Intermediate		Excellent	
5	Faulting	Extensive		Moderate		Limited	
6	Geothermal	Warm basin (>40°C/km)		Moderate (30– 40°C/km)		Cold basin (<30°C/km)	
7	Hydrocarbon potential	None	Small	Medium	Large	Giant	
8	Maturity	Unexplored	Exploration	Developing	Mature	Over mature	
9	Coal	None	Very shallow (<300 m)		Deep (>800 m)	Shallow (300- 800 m)	
10	Coal rank	Anthracite	Lignite		Sub- bituminous	Bituminous	
11	Salts	None		Domes		Beds	
12	Onshore/ Offshore	Deep offshore		Shallow offshore	-	Onshore	
13	Climate	Artic	Sub-artic	Desert	Tropical	Temperate	
14	Accessibility	Inaccessible	Difficult		Acceptable	Easy	
15	Infrastructure	None	Minor		Moderate	Extensive	

> Cr	iteria (Bach	u, 200	03)		> Screeni	ing o	f Onsh	ore	Basin
등급 기준	5	4	3	2	1	Criteria(max.)	Pohang	Gyungsang	Baekak	Chungnan
지구조 환경	매우 불안정 <0.000>	불안정 <0.010>	보통 <0.030>	비교적 안정 <0.060>	안정 <0.070>	지구조 환경(0.070)	3	2	2	2
규모(km²)	<1.000	1,000~5, 000	5,000~25, 000	25,000~50, 000	>50,000	규모(0.060)	4	2	4	2
ALE (m)	<300	<0.020> 300~800	<0.030>	<0.040>	800~35,000	심도(0.070)	4	1	1	1
심도(m) 저장/덮개 지	<0.000> 없음	<0.035> 거의 없음	보통	<0.055> 발달	<0.070> 매우 발달	저장/덮개 조함(0.090)	4	4	3	1
충조합	<0.000> 심함	<0.013>	<0.039> 보통	<0.065>	<0.090> 제한적	암석내 균열(0.080)	3	1	3	4
임식내 균열	<0.000> 천부 소규모	-	<0.027>	-	<0.080> 광역 유계, 지	수리지질(0.080)	3	3	3	3
수리지질	유계 혹은 압 밀류	-	중간 <0.027>	-	형류 혹은 침식	지온구배(0.010)	5	1	1	1
지온구배	>40	-	30~40	-	<30	탄화수소 잠재성(0.060)	4	5	5	5
(C/RM) 탄화수소 잠	없음	작음	<0.033> 중간 +0.0185	큼	매우 큼	(함메탄) 탄층(0.040)	4	5	5	4
(함메탄)탄층 (m)	없음	<300	>3,000	800~3,000	300~800	암염(0.010)	5	5	5	5
암염	없음	-	동형 <0.005>	-	<0.040× 증상형 <0.010>	육상/해양(0.100)	1	1	1	1
육상/해양	심해	-	근해	-	육상 <0.100>	기후(0.080)	1	1	1	1
기후	국지	아극지 <0.008>	사막 <0.024>	열대 <0.040>	온대 <0.080>	완성도(0.080)	4	4	5	5
완성도	미 탐사	탐사단계 <0.009>	탐사 <0.027>	개발 단계 <0.062>	개발	접근성(0.030)	1	1	1	1
접근성	불가 <0.000>	어려움 <0.007>	-	가능함 <0.017>	용이 <0.030>	인프라 기반(0.050)	1	1	1	1
인프라 기반	없음 <0.000>	약간 <0.011>	보통 <0.033>	좋음 <0.050>	매우 양호 <0.050>	등급점수합계(1.000)	0.423	0.659	0.603	0.662

Factor		Chance being assessed	Considerations			
1	Storage Capacity	will meet the volume requirements of neighboring CO2 sources	Temperature, pressure, area, pore volume			
2	Injectivity Potential	Reservoir conditions viable for injection	Porosity, permeability thickness			
3	Site Logistics	Site s economically and Technically viable	Distance from CO2 source water depth, reservoir depth, overpressure			
4	Containmen t	Seal and trap will work for CO2	Seal capacity and thickness trap, faults			
5	Existing Natural Resources	No viable natural resources in the site that may be compromised	Proven or potential petroleum system, groundwater, coal or other natural resource			



	Data Needed
1	Maps; structure, hydrology, topography
2	Seismic
3	Well Logs
4	Core Analysis; mineralogy, rock strength
5	Subsurface History; production history, water chemistry
6	Pore Pressure; formation test, leak test
7	Reservoir Characterization; stratigraphy, tectonic, models



