



ADVANTAGES:

- Beneficially Reuses coal ash to increase landfill capacity (long term storage);
- Fully encapsulates (entombs) the ash instead of a single cap;
- Meets coal ash management regulations;
- Flexibility of safeBERM® design accommodates site-specific configurations;
- Uses the same long-term proven protections the waste industry has been using for decades;
- Single-handling of CCR reduces time and costs of construction;
- Reduces the costs and need of imported construction materials;
- Improves safety and Site stability;
- Preserves the environment.

EnCAP-IT's safeBERM® Expansion approach is a viable alternative solution where CCR's can be stored safely at half the cost and timeframe as compared to off-site disposal, while providing much needed proper long-term storage capacity.

Specifications:

- Macroencapsulated structural fill is fully lined with internal drain systems;
- Reuse of beneficial reuse materials (coal ash) to construct safeBERM®;
- Geomembrane liner above the water table;
- Meets EPA Coal Ash Regulations.

The following is a table representing a conceptual comparison.

OPTION	Amount of Coal Ash (cy)	Dewater Costs**	Excavation Costs	Mono-Fill Expansion Project	Transportation & Disposal Costs	Final Land Reuse (Bring site to final conditions)	Total Cost	Environmental Protection Index Min 1 to 10 Max
Cap-In-Place Cheapest option, provides the least amount of environmental protection	3,000,000	N/A - - doesn't meet EnCAP-IT's environmental protection standards						1
Excavate, safe-BERM® Expansion System Reasonable cost option; provides highest degree of public safety; same maximum on-site environmental protection; Ideal Option	3,000,000	managed savings available	\$70.7M	\$38.7M	-	\$5.3M	\$114.7M	9
Excavate, Off-Site Disposal Most expensive option; provides maximum on-site reclamation via removal	3,000,000	N/A	\$70.7M	-	\$213.8M	\$5.3M	\$289.7M	9

* Related to on-site impacts only. ** Working face of dewatering process can be minimized to reduce costs. ^Some information (above) derived from various media outlets