

Updated Cost Estimate

Description	Updated RI Advatech Estimate	Comments / Notes
Capital (CWIP)		
Contractor Total Cost	\$ 378,210	See Note 1
Owners Costs		
Ameren Engineering	\$ 13,000	See Note 2
Ameren Supervision, Commissioning & Field OH	\$ -	Included Above
Owners Engineer	\$ 8,000	N/C - See Note 2
Training (seat time)	\$ 1,400	Based on Sioux Estimate
Capital Spare Parts / Commissioning Fills	\$ 1,000	Reduced Based on Shorter Plant Life
Property Taxes	\$ 20,000	N/C
OCIP	\$ 11,000	N/C
Project Auditing	\$ 1,000	N/C
Permit Fees	\$ 1,000	N/C
Chimney Demo	\$ 6,000	N/C
FGD Studies	\$ 9,000	Expenditures to Date (LBD WO has ~\$2.8M)
Subtotal	\$ 71,400	
Total Project w/o Overheads	\$ 449,610	2011-2015 Dollars
Escalation	\$ 61,147	See Note 3
Total Project w/o Overheads	\$ 510,757	2021-2025 Dollars
Other Overheads		
AFUDC	\$ 95,049	
Corporate Overheads	\$ 40,861	Use 8% of Total Project
Subtotal	\$ 135,910	
Total Project	\$ 646,667	
Contingency	\$ 129,333	See note 4
PROJECT GRAND TOTALS	\$ 776,000	

N/C - No Change

NOTES:

1 - Contractor Total Cost based estimate from 2009 Advatech study for Rush Island FGD (based on similar scope from Newton). While there would be some design changes such as a lower inlet SO₂, it was decided for this exercise to use this cost as is as it represents a low cost WFGD option. For comparison Newton's estimate for Contractor Cost was \$409M and Sioux's was \$435M.

2 - Ameren project staff was reduced to approximately 15 (engineers, construction leads, commissioning and support) for the 4+ year construction period. With this reduction, it was assumed not to reduce the Owner Engineer less than about \$2M per year.

3 - The Total Project w/o Overheads was escalated from 2015 dollars to 2025 dollars using a factor of 1.136 (approximately 0.0136% annually) based on Handy-Whitman Index from Property Accounting. This does not account for current global supply chain or labor constraints. That will be accounted for in contingency.

4 - 20% contingency to account for significant risks: global supply chain issues, labor constraints, lack of engineering resources and WFGD expertise