

AMERICAN TRANSMISSION COMPANY ACCESS INITIATIVE
DECISION MATRIX

Category	Measure	Weighting %	out of state terminal in-state terminal connects to	Access Alternatives					
				Base Case + two fixes	Byron N. Madison (Illinois)	Salem N. Madison (Iowa)	Adams Columbia (Minnesota)	Luddington Forest Junction (Michigan)	Sault Ste. Marie Arnold (Canada)
Transfer capability				<i>rank of alternatives on a 1 to 10 scale, with 10 the highest (best)</i>					
	base case, with two fixes	MW	7%	4	10	10	7	2	2
	high wind scenario, committed internal generation	MW	1%	2	6	10	9	1	1
	high internal generation scenario	MW	1%	2	10	10	5	0	0
	low internal generation scenario	MW	1%	3	9	10	6	3	3
Chronic limits mitigated									
	list facilities		2.5%						
Market energy savings									
	base case, with two fixes	\$\$	10%	4	9	10	7	2	2
	high wind scenario, committed internal generation	\$\$	1.67%	4	8	10	6	1	1
	high internal generation scenario	\$\$	1.67%	2	10	9	5	0	0
	low internal generation scenario	\$\$	1.67%	6	9	10	7	3	3
Control area FCITC (base case w/two fixes)									
	Alliant	MW	0.83%						
	MG&E	MW	0.83%						
	WE Energies	MW	0.83%						
	WPPI	MW	0.83%						
	WPS	MW	0.83%						
	UPPCo	MW	0.83%						
LMP comparability									
	difference in LMPs		5%	6	10	7	5		
Loss reduction									
	peak	MW							
	80% of peak	MW							
	60% of peak	MW							
	annual loss cost reduction	\$\$	5%	1	8	10	6	4	4
Reliability measurements									
	LOLE	probability, days/year	2.5%	1	9	10	7	1	1
	reserve margin required to achieve 0.1 day/year LOLE	%							
	EUE	MWh/yr	2.5%	1	10	9	6		
Strategic benefits									
	provides transmission infrastructure	subjective, +/-	2%	1	8	10	8	2	8
	economic development potential	subjective, +/-	1%	1	10	10	10	1	10
	access to out-of-state renewable resources	subjective, +/-	2%	1	6	8	7	10	5
	benefits to neighboring systems	subjective, +/-	1%	1	8	5	8	10	8
	geographic diversity	subjective, +/-	2%	1	5	10	5	10	10
	enhances value of other TYA projects	subjective, +/-	2%	1	8	10	8	1	5
System Performance									
	angular stability limits	MW	2.5%						
	voltage security	MW	2.5%	9	9	10	10		
Operating flexibility									
	list anticipated benefits		2.5%	2	10	10	10	8	5
Capital costs									
		\$\$	15%	1	2	3	4	6	5
Societal impacts									
			10%	<i>to be validated</i>	10	5	5	7	5
	corridor sharing potential	% of route							
	new right-of-way required	miles							
	public/private lands traversed	% of route							
Environmental impacts									
			10%	<i>to be validated</i>	10	3	3	2	5
	river crossings	#							
	wetlands	miles							
	endangered species	list							
	State natural areas	miles							
	State parks	miles							
	Federal lands (national forests and parks)	miles							
	tribal lands	miles							
	special water areas	#							

100% Overall Score 3.88 5.97 6.47 5.11 3.54 3.09
the higher the score, the better

Transfer capability enhancement	32.5%
Loss reduction	5%
Reliability/system perf. enhancement	12.5%
Strategic benefits	10%
Control area LMP reduction	5%
Capital costs	15%
Societal impacts	10%
Environmental impacts	10%