

**PUBLIC DOCUMENT-CONFIDENTIAL DATA EXCISED**

**STRATEGIST RESOURCE PLANNING MODEL**

**Annual System Costs \$000s**

Resource Name	Category	Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
498 - GERONIMO	Excluded	Solar	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
499 - MARSHALL	187	Solar	[PROTECTED DATA BEGINS:]																										
500 - N_STAR	187	Solar	[PROTECTED DATA BEGINS:]																										
JEFFERS	CBED	Wind	[PROTECTED DATA BEGINS:]																										
BIGBLUE	CBED	Wind	[PROTECTED DATA BEGINS:]																										
COMMWNDS	CBED	Wind	[PROTECTED DATA BEGINS:]																										
RIDGE	CBED	Wind	[PROTECTED DATA BEGINS:]																										
ADAMS	CBED	Wind	[PROTECTED DATA BEGINS:]																										
DANIELSN	CBED	Wind	[PROTECTED DATA BEGINS:]																										
EWINGTON	CBED	Wind	[PROTECTED DATA BEGINS:]																										
GRANTCO	CBED	Wind	[PROTECTED DATA BEGINS:]																										
COMMWNDR	CBED	Wind	[PROTECTED DATA BEGINS:]																										
VALLEYVW	CBED	Wind	[PROTECTED DATA BEGINS:]																										
UILK	CBED	Wind	[PROTECTED DATA BEGINS:]																										
HILLTOP	CBED	Wind	[PROTECTED DATA BEGINS:]																										
WINONA	CBED	Wind	[PROTECTED DATA BEGINS:]																										
WOODSTKM	CBED	Wind	[PROTECTED DATA BEGINS:]																										
SLAYTON	RDF	Solar	[PROTECTED DATA BEGINS:]																										
STJOHNS	RDF	Solar	[PROTECTED DATA BEGINS:]																										
DIAMONDK 1	RDF	Biomass	[PROTECTED DATA BEGINS:]																										
STOLAF	RDF	Wind	[PROTECTED DATA BEGINS:]																										
CARLTON	RDF	Wind	[PROTECTED DATA BEGINS:]																										
SISTERS OF ND	RDF	Solar	[PROTECTED DATA BEGINS:]																										

PROTECTED DATA ENDS]

**Annual System GWh**

Resource Name	Category	Type	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
498 - GERONIMO	Excluded	Solar	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
499 - MARSHALL	187	Solar	[PROTECTED DATA BEGINS:]																										
500 - N_STAR	187	Solar	[PROTECTED DATA BEGINS:]																										
JEFFERS	CBED	Wind	[PROTECTED DATA BEGINS:]																										
BIGBLUE	CBED	Wind	[PROTECTED DATA BEGINS:]																										
COMMWNDS	CBED	Wind	[PROTECTED DATA BEGINS:]																										
RIDGE	CBED	Wind	[PROTECTED DATA BEGINS:]																										
ADAMS	CBED	Wind	[PROTECTED DATA BEGINS:]																										
DANIELSN	CBED	Wind	[PROTECTED DATA BEGINS:]																										
EWINGTON	CBED	Wind	[PROTECTED DATA BEGINS:]																										
GRANTCO	CBED	Wind	[PROTECTED DATA BEGINS:]																										
COMMWNDR	CBED	Wind	[PROTECTED DATA BEGINS:]																										
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DIAMONDK 1	RDF	Biomass	[PROTECTED DATA BEGINS:]																										
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CARLTON	RDF	Wind	[PROTECTED DATA BEGINS:]																										
SISTERS OF ND	RDF	Solar	[PROTECTED DATA BEGINS:]																										

PROTECTED DATA ENDS]

**PUBLIC DOCUMENT-CONFIDENTIAL DATA EXCISED**

<u>System \$/MWh</u>	<u>Resource Name</u>	<u>Category</u>	<u>Type</u>	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043																					
				[PROTECTED DATA BEGINS:]																																															
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	499 - MARSHALL	187	Solar	[PROTECTED DATA BEGINS:]																																															
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<u>Recommended SD Proxy Prices \$/MWh</u>		2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043
Market Price – Fixed	Solar Proxy	\$43.01	\$43.59	\$45.26	\$49.23	\$53.05	\$53.71	\$55.84	\$57.09	\$57.87	\$58.97	\$59.69	\$59.95	\$62.42	\$63.87	\$64.63	\$65.60	\$66.52	\$68.26	\$69.12	\$70.45	\$71.80	\$73.17	\$74.57	\$76.00	\$77.46	\$78.94	\$80.46
Index Proxy – Fixed	Wind Proxy	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94	\$54.94
Fixed 2014 Minn Hub 7x24	Bio Proxy	\$33.86	\$34.79	\$36.32	\$39.28	\$42.69	\$43.47	\$45.14	\$45.71	\$45.82	\$46.79	\$47.54	\$47.56	\$49.77	\$51.21	\$52.04	\$52.93	\$53.75	\$55.07	\$55.87	\$56.93	\$58.08	\$59.18	\$60.29	\$61.40	\$62.59	\$63.78	\$65.09

**SD \$/MWh Costs with Proxy Adjustments for all contracts priced above Recommended Proxy Prices**

<u>System \$/MWh</u>	<u>Resource Name</u>	<u>Category</u>	<u>Type</u>	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043																					
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**SD Contract Volumes at 5.1% Allocation**

<b>GWh</b>			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	
<b>Resource Name</b>	<b>Category</b>	<b>Type</b>	[PROTECTED DATA BEGINS:]																											
498 - GERONIMO	Excluded	Solar	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	
499 - MARSHALL	187	Solar	[PROTECTED DATA BEGINS:]																											
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**SD Contract Costs**

<b>\$000s</b>			2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	
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SISTERS OF ND	RDF	Solar	[PROTECTED DATA BEGINS:]																											
			[PROTECTED DATA ENDS]																											

Total SD Contract Costs (\$000s)  
SD Costs if Full Recovery (5.1% of System Costs for Contracts)

[PROTECTED DATA BEGINS]	[PROTECTED DATA ENDS]
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*Impact of Company Recommended Proxy Prices*

[PROTECTED DATA BEGINS]	[PROTECTED DATA ENDS]
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