

**STATE OF MINNESOTA
BEFORE THE PUBLIC UTILITIES COMMISSION**

Katie Sieben
Joseph Sullivan
Valerie Means
Matt Schuerger
John Tuma

Chair
Vice-Chair
Commissioner
Commissioner
Commissioner

In the Matter of Xcel Energy's 2020–2034
Upper Midwest Integrated Resource Plan

DOCKET NO. E-002/RP-19-368

**RESPONSE OF THE OFFICE OF
THE ATTORNEY GENERAL TO
XCEL'S MOTION TO STRIKE**

INTRODUCTION

The Office of the Attorney General—Residential Utilities Division (“OAG”) files this Response to the motion of Xcel Energy (“Xcel” or “the Company”) to strike the OAG’s reply comments in the above-entitled matter. Xcel’s motion attempts to invoke its procedural due-process rights in an effort to exclude evidence that casts doubt on the reasonableness of the Company’s preferred resource plan. Specifically, Xcel claims that the OAG cannot refer the Commission to trade-secret data that the Commission already has from another utility, which suggests Xcel’s analysis is flawed.¹ Xcel claims that using this data to evaluate Xcel’s preferred plan would deprive the Company of a constitutionally protected property interest. This argument should be rejected. For the reasons explained below, the Company has no constitutionally protected interest in its preferred resource plan or in preventing a competitive bidding process, as the OAG has recommended. In addition, any minimal interest that the Company has in defending the specific resource plan it wants is far outweighed by the public benefit of allowing the Commission to broadly consider evidence from other utilities that contradict Xcel’s claims.

¹ While it has not explicitly stated so, Xcel’s argument suggests that the Commission cannot consider any information it received in other dockets, unless Xcel has access to that information.

Therefore, the use of trade-secret data does not implicate Xcel's procedural due-process rights, and the Commission should deny the Company's motion.

BACKGROUND

On July 1, 2019, Xcel filed a resource plan under Minnesota Statutes section 216B.2422. The filing outlined the Company's preferred plan for meeting its customers' energy needs in the 2020–2034 timeframe, including a proposal to construct a \$837 million, 800 MW combined-cycle power plant at the site of its existing Sherco power plant ("Sherco CC"). Xcel's preferred plan was informed by its own future cost estimates of various potential resources.

On February 11, 2021, parties filed initial comments on Xcel's resource plan. Several commenters recommended that the Commission not approve Xcel's Sherco CC proposal because it would significantly and needlessly increase costs for customers and would expose them to greater risk, including volatile fuel costs, expected federal regulatory policies, and potentially lower than forecast market sales revenues

On June 25, 2021, the OAG filed reply comments. The OAG echoed other commenters' concerns with the Sherco CC proposal. The OAG also relied on bid information obtained from Otter Tail Power Company ("Otter Tail's trade-secret data") to show that Xcel's resource-plan assumptions overstate the cost of alternatives to the Sherco CC. The specific prices obtained in Otter Tail's bid are trade secret. The OAG recommended that the Commission deny Xcel's proposed Sherco CC and require the Company to complete a competitive bidding process to procure solar-plus-storage projects. Xcel has since proposed an alternative plan that would not include constructing the Sherco CC.

The OAG filed two copies of its reply comments: a "public" copy with trade-secret information redacted and a "protected" copy without redactions. The OAG also served Xcel with a copy of its reply comments that included Xcel's trade secret information, but not Otter Tail's.

The Commission's docketing system prevents persons without permission, including Xcel, from viewing the protected version. Xcel asked the OAG for an unredacted copy of the reply comments, and the OAG in turn asked Otter Tail's permission to disclose its trade-secret data to Xcel. Otter Tail declined to grant permission, and the OAG therefore was unable to satisfy Xcel's request.

On August 13, 2021, Xcel filed its current motion. The Company asks the Commission to strike the OAG's reply comments and require the OAG to refile them without reference to Otter Tail's trade-secret data.

ANALYSIS

Xcel argues that using Otter Tail's trade-secret data would deprive Xcel of procedural due process in violation of the Due Process Clause of the United States and/or Minnesota constitutions.² Xcel's argument fails. Minnesota courts use a two-step analysis to determine whether state action violates an individual's procedural due-process rights.³ Xcel has failed to show that the Commission would violate either of these steps if it considered the information it has about Otter Tail's previous bids.

The first step is to determine whether the government has deprived the individual of a protected life, liberty, or property interest.⁴ A protected interest must be a "legitimate claim to entitlement," not simply a "subjective expectancy" of receiving benefits.⁵ If the government's action does not deprive an individual of a protected interest, then no process is due.⁶ If the government's action does implicate a protected interest, the second step is to determine "whether

² See Minn. Const. art. I, § 7 (providing that "[n]o person shall . . . be deprived of life, liberty or property without due process of law"); U.S. Const. amend. V (same).

³ *Sawh v. City of Lino Lakes*, 823 N.W.2d 627, 632 (Minn. 2012).

⁴ *Id.*

⁵ *Bituminous Materials, Inc. v. Rice Cty., Minn.*, 126 F.3d 1068, 1070 (8th Cir. 1997); *see also Izaak Walton League of Am. v. Marsh*, 655 F.2d 346, 361 (D.C. Cir. 1981) (holding that railroad's interest in avoiding competition was not property or liberty interest that created procedural due-process right).

⁶ *Sawh*, 823 N.W.2d at 632.

the procedures followed by the [government] were constitutionally sufficient.”⁷ Answering this second question requires balancing the public and private interests at stake, as well as considering the likely value of additional or substitute procedures.⁸

Xcel’s motion fails the first step of this constitutional analysis because the Company has no protected interest in its preferred resource plan. The purpose of integrated resource planning is to determine the optimal mix of supply- and demand-side resources to serve a utility’s customers and further the public interest.⁹ In other words, resource planning is undertaken not for the benefit of a utility or its shareholders but to further the public’s interest in reliable, affordable, and environmentally sound electric service. While Xcel may desire that the Commission approve its preferred plan, including the \$837 million Sherco CC proposal, this is not an outcome to which the Company is entitled, and therefore, its procedural due-process rights are not implicated. Likewise, while Xcel may not want to conduct a competitive bidding process for solar-plus-storage assets, it is not entitled to this outcome and does not have a property interest in it.

Even if Xcel could establish a property interest in its preferred resource plan, it has not fulfilled the second step of a due-process claim—showing that its private interests of having this data stricken outweigh the public benefits of having it available to the Commission. Xcel argues that the Commission’s use of Otter Tail’s trade-secret data would prejudice the Company.¹⁰ The Company’s argument is misplaced for two reasons. First, any prejudice that Xcel may face is minimal. Although Xcel does not know the *precise* amount of the Otter Tail bids, since this information is trade secret, it knows that they are *lower than* Xcel’s resource-plan assumptions.

⁷ *Id.* (quoting *Swarthout v. Cooke*, 562 U.S. 216, 219 (2011)).

⁸ *Id.* (citing *Mathews v. Eldridge*, 424 U.S. 319, 335 (1976)).

⁹ See Minn. Stat. § 216B.2422, subd. 2(a) (requiring the Commission to “approve, reject, or modify the [resource] plan of a public utility . . . consistent with the public interest”).

¹⁰ Xcel Mot. to Strike at 1.

Put differently, Xcel understands the arguments made by the OAG, and is free to present evidence to show that its higher assumptions are valid. Second, even if not knowing Otter Tail's specific bid amounts hampered Xcel's efforts to advocate for its preferred plan, the prejudice to the Company is minimal: As stated above, the only thing Xcel stands to lose in this case is its expectation of earning additional profits on a more expensive generation mix. And no matter the outcome, Xcel will have an opportunity to recover the costs of—and earn a profit on—any prudently-incurred investments that the Commission approves.

On the other hand, the public interest would be seriously harmed if the Commission could not consider relevant market data of a Minnesota utility based on Otter Tail's unwillingness to disclose it to Xcel. Taken to its logical conclusion, Xcel's position is that the Commission cannot rely on the information it gains through the experience of reviewing other utilities' resource plans. Indeed, the OAG's comments simply cited to information that the Commission *already has*. Xcel's position is that the Commission cannot consider whether one utility is presenting costs that are outside the norm that it sees in other dockets, because it must ignore anything other utilities have presented. This would be extraordinarily harmful to the public interest. If the Commission cannot consider third-party utility bid data in resource-planning dockets merely because that data has been designated as confidential, there is a real risk that utilities' efforts to put a thumb on the scale in favor of their preferred investments will go unchecked. The Commission should not lightly exclude evidence that bears directly on the reasonableness of Xcel's assumptions and the cost-effectiveness of the Company's preferred plan.¹¹

¹¹ The risk to ratepayers is particularly high in this case because, while attempting to keep Otter Tail's information out of the record, Xcel has simultaneously declined to provide the OAG with *the Company's own* trade-secret bid information. See Xcel response to OAG IR No. 4 (attached hereto as Exhibit A).

CONCLUSION

The Commission's duty in resource planning is to approve a plan that ensures that a utility can provide reliable, affordable, and environmentally sound service. The Commission is not setting Xcel's rates in this case, nor is the OAG advocating that the Company be denied a single cent of cost recovery. Xcel nonetheless argues that its expectation of increased profits from the approval of its preferred plan rises to the level of a constitutionally protected interest. The Company, however, does not have a constitutionally protected interest in building the most lucrative possible system. For these and all the foregoing reasons, the Commission should reject Xcel's effort to exclude Otter Tail's trade-secret bid data from the record.

Dated: August 27, 2021

Respectfully submitted,

KEITH ELLISON
Attorney General
State of Minnesota

/s/ **Peter G. Scholtz**

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ATTORNEYS FOR OFFICE OF
THE ATTORNEY GENERAL—
RESIDENTIAL UTILITIES DIVISION

EXHIBIT A

- ☐ Not Public Document – Not For Public Disclosure
☐ Public Document – Not Public Data Has Been Excised
☒ Public Document

Xcel Energy	Information Request No.	4
Docket No.:	E002/RP-19-368	
Response To:	Office of the Attorney General	
Requestor:	Andrew Twite	
Date Received:	July 7, 2021	

Question:

Reference: Xcel's January 14, 2021 filings in Colorado PUC Docket No. 16A-0396E (Attachment 4 - 2016 Electric Resource Plan - Public Refile of 30-Day Report, Updated Attachment A): Xcel Colorado's 2017 all-source bidding solicitation received 28 bids for standalone battery storage projects and 79 bids for solar-plus-storage projects.

- A. Did the Company review the bids received in the 2017 Colorado solicitation in developing its Minnesota IRP battery storage cost inputs? If not, please explain why.
- B. Provide the levelized capacity cost (in \$/kW-month) and in-service date for the lowest bid received in the Colorado solicitation for a battery storage project with a duration of at least four hours.
- C. Provide the levelized capacity cost (in \$/kW-month) and in-service date for the lowest bid in the Colorado solicitation for a battery storage project with a duration of at least eight hours.
- D. Provide the levelized capacity cost (in \$/kW-month) for the storage component of the following solar-plus-storage bids received in the Colorado solicitation:
 - i. NextEra Thunder Wolf solar-plus-storage PPA (Bid ID X647)
 - ii. Coronal Piccadilly solar-plus-storage PPA (Bid ID X427)
 - iii. NextEra Neptune solar-plus-storage PPA (Bid ID X645)

Response:

- A. The Company used the general results of the 2017 Colorado solicitation as a basis for development of the storage assumptions in the original 2019 filing. At that time, the NREL Annual Technology Baseline (ATB) data for storage costs was not fully developed and did not provide enough credible data to support development of generic costs. NREL has since improved the quality of data provided in later versions of the ATB, and for the 2020 Supplement and 2021 Reply modeling, the

EXHIBIT A

Company used NREL data in the development of the generic costs. The Company believes the updated NREL data is currently the most credible source for generics resource costs for our Minnesota service territory.

- B. The publicly released information for the 2017 Colorado solicitation is included in this response as Attachments A and B. Due to the amount of time passed, the information in the attachments is fully public – the confidential markings can be disregarded. Most of the requested information can be found in these attachments, but the Company is unable to respond in further detail because it would reveal proprietary and confidential third-party information.
 - C. See the answer to subpart (B)
 - D. See the answer to subpart (B)
-

Preparer: Jon Landrum
Title: Manager, Resource Planning Analytics
Department: Resource Planning
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Date: July 19, 2021

Attachment 9_Public Refile of HIGHLY CONFIDENTIAL 120-Day Report, Appendix H
Proceeding No. 16A-0396E
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HIGHLY CONFIDENTIAL

The enclosed document contains HIGHLY CONFIDENTIAL information and is being submitted pursuant to the Commission's rules governing the submission of confidential information (4 CCR 723-1-1100).

PROCEEDING NO.: 16A-0396E

RE: IN THE MATTER OF THE APPLICATION OF PUBLIC SERVICE COMPANY OF COLORADO FOR APPROVAL OF ITS 2016 ELECTRIC RESOURCE PLAN

Filing Party: Public Service Company of Colorado

Date of Filing: June 6, 2018

**Description: Appendix H Bids Advanced to Computer Based Modeling
Highly Confidential Version**

Following the conclusion of the Commission proceedings and any related court actions in this docket, Public Service Company of Colorado (the filing party) requests the Commission to destroy this information by shredding or returning the information to PSCo's attorney assigned to this case.

EXHIBIT A
Attachment 9_Public Refile of HIGHLY CONFIDENTIAL 120-Day Report, Appendix H
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Table 1 - List of Bids Advanced to Computer Modeling HIGHLY CONFIDENTIAL

Bid ID	Project Name	Bidder Name	In-Service Year	Nameplate Capacity (MW)	Storage Capacity (MW)	Stored Energy (MWh)	Commercial Structure	Contract Term	45 DAY LEC (\$/MWh)	45 DAY LCC (\$/kW-mo)	ERZ / Solar Resource Zone	Point of Interconnect	PSCo Owned/PSCo Funded Interconnection Facilities (\$M)
E014	Spindle Hill Storage 150MW	Invenergy	2023	150	150	75	PPA	20	\$ -	\$ 3.86	ERZ-1	Spindle	\$0
E628	Event Horizon	NextEra	2022	100	100	400	PPA	25	\$ -	\$ 8.61	ERZ-2	Missile Site	\$2
E631	Event Horizon	NextEra	2022	150	150	600	PPA	25	\$ -	\$ 8.61	ERZ-2	Missile Site	\$2
E625	Event Horizon	NextEra	2022	50	50	200	PPA	25	\$ -	\$ 9.62	ERZ-2	Missile Site	\$2
E123	Stagecoach Grid	Able Grid	2022	10	10	38	PPA	20	\$ -	\$ 9.87		Debeque Sub	\$0
E126	Stagecoach Grid	Able Grid	2022	10	10	38	Build-Own Transfer		\$ -	\$ 10.79		Debeque Sub	\$0
E125	Larkspur Grid	Able Grid	2022	10	10	38	Build-Own Transfer		\$ -	\$ 10.84		North Sub	\$0
E124	Elk Meadows Grid	Able Grid	2022	50	50	200	Build-Own Transfer		\$ -	\$ 10.93		Smoky Hill	\$1
E217	Cameo Storage	Convergent	2022	25	25	100	PPA	20	\$ -	\$ 13.10		Cameo	\$1
E629	Event Horizon	NextEra	2022	100	100	800	PPA	25	\$ -	\$ 13.91	ERZ-2	Missile Site	\$2
E632	Event Horizon	NextEra	2022	150	150	1200	PPA	25	\$ -	\$ 13.91	ERZ-2	Missile Site	\$2
E086	Forrest Lake	Tesla	2022	75	75	300	Build-Own Transfer		\$ -	\$ 14.93		Forest Lakes	\$8
E626	Event Horizon	NextEra	2022	50	50	400	PPA	25	\$ -	\$ 14.93	ERZ-2	Missile Site	\$2
E630	Event Horizon	NextEra	2022	100	100	1000	PPA	25	\$ -	\$ 16.89	ERZ-2	Missile Site	\$2
E633	Event Horizon	NextEra	2022	150	150	1500	PPA	25	\$ -	\$ 16.89	ERZ-2	Missile Site	\$2
E627	Event Horizon	NextEra	2022	50	50	500	PPA	25	\$ -	\$ 17.98	ERZ-2	Missile Site	\$2
E211	ABS-Avondale	AEIF	2022	50	50	200	PPA	20	\$ -	\$ 21.53	ERZ-5	Comanche-Boone	\$12
B169	Gypsum Renewable Bioenergy Facility	Primary Energy	2020	9			PPA	20	\$188.10	\$ -		Cooley Mesa	\$0
G215	Manchief Power Generating Facility	Atlantic	2022	301			Existing Asset Sale		\$ -	\$ 1.50	ERZ-1	Pawnee	\$0
G214	Manchief Power Generating Facility	Atlantic	2020	301			Existing Asset Sale		\$ -	\$ 1.88	ERZ-1	Pawnee	\$0
G104	Manchief Purchase Option 2	Public Service	2022	301			Existing Asset Sale		\$ -	\$ 1.91	ERZ-1	Pawnee	\$0
G105	Manchief Purchase Option 1	Public Service	2021	301			Existing Asset Sale		\$ -	\$ 1.91	ERZ-1	Pawnee	\$0
G066	Valmont Gas Plant 2020	Southwest Generation	2020	82			Existing Asset Sale		\$ -	\$ 2.26		Valmont	\$0
G065	Valmont Gas Plant 2022	Southwest Generation	2022	82			Existing Asset Sale		\$ -	\$ 2.43		Valmont	\$0
G216	Manchief Power Generating Facility	Atlantic	2022	301			PPA	20	\$ -	\$ 2.98	ERZ-1	Pawnee	\$0
C172	Brush 4D	BIV Genco	2022	147			PPA	10	\$ -	\$ 3.24	ERZ-1	Brush	\$0
G069	Valmont Gas Plant 2020	Southwest Generation	2020	82			PPA	25	\$ -	\$ 4.00		Valmont	\$0
G006	Spindle Hill Uprate	Invenergy	2018	22			PPA	9	\$ -	\$ 4.05	ERZ-1	Spindle	\$0
G070	Valmont Gas Plant 2022	Southwest Generation	2022	82			PPA	25	\$ -	\$ 4.10		Valmont	\$0
G076	Valmont Gas Plant 2023	Southwest Generation	2023	82			PPA	25	\$ -	\$ 4.10		Valmont	\$0
G077	Fountain Valley Turbophase Uprate	Southwest Generation	2020	273			PPA	12	\$ -	\$ 4.42	ERZ-2	Midway	\$0

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Bid ID	Project Name	Bidder Name	In-Service Year	Nameplate Capacity (MW)	Storage Capacity (MW)	Stored Energy (MWh)	Commercial Structure	Contract Term	45 DAY LEC (\$/MWh)	45 DAY LCC (\$/kW-mo)	ERZ / Solar Resource Zone	Point of Interconnect	PSCo Owned/PSCo Funded Interconnection Facilities (\$M)
G016	Spindle Hill Expansion	Invenery	2023	197			PPA		\$ -	\$ 4.56	ERZ-1	Spindle	\$0
Y067	Valmont Hybrid Gas Turbine 2021	Southwest Generation	2021	82	20	10	Build-Own Transfer		\$ -	\$ 4.76		Valmont	\$0
Y068	Valmont Hybrid Gas Turbine 2022	Southwest Generation	2022	82	20	10	Build-Own Transfer		\$ -	\$ 4.85		Valmont	\$0
G109	Fort St. Vrain units 7 & 8	Public Service	2023	401			Self-Build		\$ -	\$ 5.09	ERZ-1	Fort St Vrain	\$2
G019	Spindle Hill Expansion	Invenery	2023	197			Build-Own Transfer		\$ -	\$ 5.10	ERZ-1	Spindle	\$0
G107	Blue Spruce Units 3 & 4	Public Service	2023	401			Self-Build		\$ -	\$ 5.32	ERZ-2	Blue Spruce	\$3
G637	Thunder Wolf CT	NextEra	2023	605			Split	25	\$ -	\$ 5.82	ERZ-5	Badger Hills	\$12
G102	Cherokee Unit 8 Early	Public Service	2022	200			Self-Build		\$ -	\$ 5.85		Cherokee	\$2
G103	Fort St. Vrain Unit 7	Public Service	2023	200			Self-Build		\$ -	\$ 5.88	ERZ-1	Fort St Vrain	\$2
G101	Cherokee Unit 8	Public Service	2023	200			Self-Build		\$ -	\$ 5.96		Cherokee	\$2
G108	Rocky Mountain Energy Unit 4	Public Service	2023	200			Self-Build		\$ -	\$ 6.05	ERZ-1	Rocky Mountain Energy	\$4
G100	Blue Spruce Unit 3	Public Service Clean Energy Development	2023	200			Self-Build		\$ -	\$ 6.11	ERZ-2	Blue Spruce	\$2
G229	Pueblo County Gas Facility	Public Service	2023	394			Split	20	\$ -	\$ 6.27	ERZ-5	Comanche-Daniels Park	\$12
G106	Comanche Unit 4	Public Service	2023	200			Self-Build		\$ -	\$ 6.35	ERZ-5	Comanche	\$12
G636	Thunder Wolf CT	NextEra	2023	403			Split	25	\$ -	\$ 6.42	ERZ-5	Badger Hills	\$12
C170	Brush 7	BrushPower	2022	318			PPA	20	\$ -	\$ 6.80	ERZ-1	Brush	\$1
C071	Arapahoe Turbophase Uprate	Southwest Generation	2020	133			PPA	24	\$ -	\$ 6.89		Arapahoe	\$0
Y075	Valmont Hybrid Gas Turbine 2021	Southwest Generation	2021	82	20	10	PPA	20	\$ -	\$ 7.29		Valmont	\$0
A202	Blue Sky CAES	Apex CAES	2022	317	135	8000	Build-Own Transfer		\$ -	\$ 14.62	ERZ-1	Pawnee	\$1
Y074	Valmont Hybrid Gas Turbine 2023	Southwest Generation	2023	82	20	10	PPA	20	\$ -	\$ 7.41		Valmont	\$0
Y073	Valmont Hybrid Gas Turbine 2022	Southwest Generation	2022	82	20	10	PPA	20	\$ -	\$ 7.42		Valmont	\$0
Y017	Spindle Hill Storage 100MW	Invenery	2023	197	100	50	PPA	20	\$ -	\$ 7.58	ERZ-1	Spindle	\$0
G635	Thunder Wolf CT	NextEra	2023	202			Split	25	\$ -	\$ 8.30	ERZ-5	Badger Hills	\$12
G163	Greeley Energy Facility	Alliance Energy	2021	40			PPA	15	\$ -	\$ 8.31	ERZ-1	Thermo Monfort	\$0
C634	Thunder Wolf CC	NextEra	2023	545			Split	25	\$ -	\$ 10.51	ERZ-5	Badger Hills	\$12
O212	Mewbourn REG	Ormat	2020	11			PPA	20	\$ 55.35	\$ -	ERZ-1	Gilcrest-Vasquez	\$8
M249	Pole Canyon Wind, Solar + Storage	Pattern	2020	250	100	400	PPA	20	\$ 22.82	\$ -	ERZ-5 / SFR	Comanche	\$0
M247	Pole Canyon Wind, Solar + Storage	Pattern	2020	250	50	200	Split	20	\$ 30.41	\$ -	ERZ-5 / SFR	Comanche	\$0
M248	Pole Canyon Wind Solar + Storage	Pattern	2020	250	50	200	PPA	20	\$ 34.22	\$ -	ERZ-5 / SFR	Comanche	\$0
M089	Anderson Ranch	Starlight	2018	5			PPA	25	\$ 41.42	\$ -	ERZ-1 / NFR	Pawnee	\$0
M242	Pole Canyon Wind, Solar + Storage	Pattern	2020	250	100	400	Build-Own Transfer		\$ 43.67	\$ -	ERZ-5 / SFR	Comanche	\$0
S222	Rush Creek Solar PV	Intersect	2023	550			PPA	15	\$ 19.91	\$ -	ERZ-2 / NFR	Pronghorn	\$0
S619	Thunder Wolf	NextEra	2022	200			PPA	25	\$ 20.03	\$ -	ERZ-5 / SFR	Badger Hills	\$12

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S614	Highland	NextEra	2022	350			PPA	25	\$ 20.50	\$ -	ERZ-5 / SFR	Midway-Boone	\$32
S127	Avondale Solar	EPDR	2022	500			PPA	20	\$ 20.50	\$ -	ERZ-5 / SFR	Badger Hills	\$12
S135	Dry Creek Solar 500MW	EDPR	2022	500			PPA	20	\$ 22.50	\$ -	ERZ-2 / NFR	Pronghorn-Rush Creek 2	\$12
S430	Owl Canyon	Coronal	2022	75			PPA		\$ 22.53	\$ -	ERZ-5 / SFR	Comanche-Midway	\$12
S225	Rush Creek Solar PV	Intersect	2023	200			PPA	15	\$ 22.79	\$ -	ERZ-2 / NFR	Pronghorn	\$0
S177	Stagecoach 200MW	First Solar	2023	204			PPA	20	\$ 24.85	\$ -	ERZ-5 / SFR	Comanche-Midway	\$12
S085	Hartsel Solar	Adani	2022	72			PPA	25	\$ 26.84	\$ -	WS	Hartsel	\$12
S663	Thunder Wolf	NextEra	2022	200			Build-Own Transfer		\$ 33.95	\$ -	ERZ-5 / SFR	Badger Hills	\$12
S020	Sunny Side Solar	Invenergy	2020	50			PPA	20	\$ 35.90	\$ -	WS	Collbran	\$1
S179	Stagecoach 200MW	First Solar	2023	200			Build-Own Transfer		\$ 36.60	\$ -	ERZ-5 / SFR	Comanche-Midway	\$12
S304	BlancaVista31	Avangrid	2020	31			PPA	25	\$ 37.05	\$ -	ERZ-4 / SLV	San Luis Valley	\$1
S171	Thornton GL-1	Sharper Energy	2019	10			PPA	25	\$ 54.15	\$ -	NFR	Riverdale	\$0
Q664	Trifecta 4	NextEra	2020	350	240	960	Split	25	\$ 25.54	\$ -	ERZ-2 & 5/ SFR	various	\$0
X670	Highland	NextEra	2022	350	50	200	PPA	25	\$ 23.73	\$ -	ERZ-5 / SFR	Midway-Boone	\$32
X675	Thunder Wolf	NextEra	2022	200	50	200	PPA	25	\$ 25.70	\$ -	ERZ-5 / SFR	Badger Hills	\$12
X667	Elderberry	NextEra	2022	200	50	200	PPA	25	\$ 25.83	\$ -	ERZ-5 / SFR	Comanche-Boone	\$12
X672	Neptune	NextEra	2022	250	50	200	PPA	25	\$ 26.05	\$ -	ERZ-5 / SFR	Comanche-Daniels Park	\$12
X366	Sun Ranger Solar	E.ON	2021	100	10	20	PPA	20	\$ 29.77	\$ -	ERZ-5 / SFR	Midway-Boone	\$12
X641	Elderberry	NextEra	2022	200	100	400	PPA	25	\$ 30.14	\$ -	ERZ-5 / SFR	Comanche-Boone	\$12
X647	Thunder Wolf	NextEra	2022	200	100	400	PPA	25	\$ 30.32	\$ -	ERZ-5 / SFR	Badger Hills	\$12
X427	Piccadilly Solar + Storage	Coronal	2022	110	50	100	PPA		\$ 30.33	\$ -	ERZ-2 / NFR	Barr Lake	\$5
X371	Huerfano Lake Solar	E.ON	2021	100	10	20	PPA	20	\$ 30.35	\$ -	ERZ-5 / SFR	Badger Hills	\$12
X643	Highland	NextEra	2022	350	175	700	PPA	25	\$ 30.41	\$ -	ERZ-5 / SFR	Comanche-Midway	\$32
X386	Avalanche Solar + Storage 1	Cypress Creek	2021	75	38	75	PPA	20	\$ 31.27	\$ -	ERZ-1 / NFR	Fort St Vrain-Keensburg	\$12
X645	Neptune	NextEra	2022	250	125	500	PPA	25	\$ 31.35	\$ -	ERZ-5 / SFR	Comanche-Daniels Park	\$12
X050	RE Tungsten	Recurrent	2021	400	400	400	PPA	20	\$ 31.66	\$ -	ERZ-5 / SFR	Comanche-Midway	\$12
X640	Elderberry	NextEra	2021	200	100	400	PPA	25	\$ 31.72	\$ -	ERZ-5 / SFR	Comanche-Boone	\$12
X646	Thunder Wolf	NextEra	2021	200	100	400	PPA	25	\$ 31.98	\$ -	ERZ-5 / SFR	Badger Hills	\$12
X642	Highland	NextEra	2021	350	175	700	PPA	25	\$ 32.03	\$ -	ERZ-5 / SFR	Comanche-Midway	\$32
X355	Dryline Solar	E.ON	2021	100	10	20	PPA	20	\$ 32.37	\$ -	ERZ-2 / NFR	Missile Site	\$2
X049	RE Arroyo 2	Recurrent	2021	200	200	200	PPA	20	\$ 32.78	\$ -	ERZ-5 / SFR	Comanche	\$2

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Bid ID	Project Name	Bidder Name	In-Service Year	Nameplate Capacity (MW)	Storage Capacity (MW)	Stored Energy (MWh)	Commercial Structure	Contract Term	45 DAY LEC (\$/MWh)	45 DAY LCC (\$/kW-mo)	ERZ / Solar Resource Zone	Point of Interconnect	PSCo Owned/PSCo Funded Interconnection Facilities (\$M)
X644	Neptune	NextEra	2021	250	125	500	PPA	25	\$ 32.96	\$ -	ERZ-5 / SFR	Comanche-Daniels Park	\$12
X365	Sun Ranger Solar	E.ON	2021	100	20	80	PPA	20	\$ 37.06	\$ -	ERZ-2 / SFR	Midway-Boone	\$12
X372	Huerfano Lake Solar	E.ON	2021	100	20	80	PPA	25	\$ 37.62	\$ -	ERZ-5 / SFR	Badger Hills	\$12
X241	Pueblo II Solar + Storage	Pattern	2020	150	45	180	PPA	20	\$ 38.30	\$ -	ERZ-5 / SFR	Midway-Boone	\$12
X356	Dryline Solar	E.ON	2021	100	20	80	PPA	20	\$ 40.01	\$ -	ERZ-5 / NFR	Midway-Boone	\$12
X230	Pueblo County Solar	Clean Energy Development	2023	100	50	200	PPA		\$ 41.92	\$ -	ERZ-5 / SFR	Comanche-Midway	\$12
X305	BlancaVista31 +Storage	Avangrid	2020	31	8	31	PPA	25	\$ 44.94	\$ -	ERZ-4 / SLV	San Luis Valley	\$1
X038	RE Tungsten	Recurrent	2021	400	400	400	Build-Own Transfer		\$ 55.29	\$ -	ERZ-5 / SFR	Badger Hills	\$12
X250	Pueblo II Solar + Storage	Pattern	2020	150	45	180	Build-Own Transfer		\$ 55.64	\$ -	ERZ-5 / SFR	Midway-Boone	\$12
X037	RE Arroyo 2	Recurrent	2021	200	200	200	Build-Own Transfer		\$ 60.12	\$ -	ERZ-5 / SFR	Badger Hills	\$12
X374	Sand Hill Solar Farm	ibV	2020	150	90	360	PPA	20	\$ 66.11	\$ -	ERZ-2 / NFR	Missile Site	\$2
X373	Sand Hill Solar Farm	ibV	2020	150	90	360	PPA	25	\$ 67.07	\$ -	ERZ-2 / NFR	Missile Site	\$2
X411	Uintah Solar + Storage	Geronimo	2021	20	20	80	PPA	20	\$ 74.06	\$ -	WS	Uintah	\$0
W605	Bronco Plains	NextEra	2020	499			PPA	25	\$ 10.32	\$ -	ERZ-2	Rush Creek 2	\$12
W602	Bronco Plains	NextEra	2020	300			PPA	25	\$ 10.68	\$ -	ERZ-2	Rush Creek 2	\$12
W191	Cheyenne Ridge	Tradewind	2020	500			PPA	20	\$ 12.95	\$ -	ERZ-2	Rush Creek 2	\$12
W301	CO_Green_162	Avangrid	2020	162			PPA	20	\$ 14.16	\$ -	ERZ-3	Lamar	\$0
W655	Bronco Plains	NextEra	2020	499			Build-Own Transfer		\$ 14.39	\$ -	ERZ-2	Rush Creek 2	\$12
W652	Bronco Plains	NextEra	2020	300			Build-Own Transfer		\$ 14.48	\$ -	ERZ-2	Rush Creek 2	\$12
W302	CO Green 121	Avangrid	2020	121			PPA	20	\$ 14.71	\$ -	ERZ-3	Lamar	\$0
W187	Arriba	NGC Partners	2020	299			PPA	25	\$ 14.90	\$ -	ERZ-2	Rush Creek 2	\$12
W509	Cedar Creek Wind Farm Partial Repower	Leeward	2019	6			PPA	8	\$ 15.00	\$ -	ERZ-1	Keenesburg	\$0
W324	Sterling 20yr	Avangrid	2020	630			PPA	20	\$ 15.48	\$ -	ERZ-1	Pawnee	\$2
W162	Highland Park	Clear Creek Power	2019	181			PPA	25	\$ 15.85	\$ -		Cabin Creek-Idaho Springs	\$12
W188	Arriba	NGC Partners	2020	299			Build-Own Transfer		\$ 16.17	\$ -	ERZ-2	Rush Creek 2	\$12
W227	Springfield Wind	Orion	2020	700			Build-Own Transfer		\$ 16.66	\$ -	ERZ-3	Badger Hills	\$27
W656	Bronco Plains	NextEra	2021	499			Build-Own Transfer		\$ 16.78	\$ -	ERZ-2	Rush Creek 2	\$12
W147	Crossing Trails Wind Farm	EDPR	2020	260			PPA	20	\$ 17.00	\$ -	ERZ-2	Rush Creek 2	\$12
W110	Cedar Point Expansion 398MW	RES	2020	398			PPA		\$ 17.27	\$ -	ERZ-2	Missile Site	\$2
W144	Crossing Trails Wind Farm	EDPR	2020	500			Build-Own Transfer		\$ 17.65	\$ -	ERZ-2	Rush Creek 2	\$12
W031	RushCreekIII	Invenery	2020	450			Build-Own Transfer		\$ 17.77	\$ -	ERZ-2	Pronghorn	\$0
W111	Cedar Point Expansion 398MW BOT	RES	2020	398			Build-Own Transfer		\$ 17.94	\$ -	ERZ-2	Missile Site	\$0

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Bid ID	Project Name	Bidder Name	In-Service Year	Nameplate Capacity (MW)	Storage Capacity (MW)	Stored Energy (MWh)	Commercial Structure	Contract Term	45 DAY LEC (\$/MWh)	45 DAY LCC (\$/kW-mo)	ERZ / Solar Resource Zone	Point of Interconnect	PSCo Owned/PSCo Funded Interconnection Facilities (\$M)
W090	Mountain Breeze	Leeward	2020	169			PPA		\$ 18 00	\$ -	ERZ-1	Keenesburg	\$0
W653	Bronco Plains	NextEra	2021	300			Build-Own Transfer		\$ 18 07	\$ -	ERZ-2	Rush Creek 2	\$12
W192	Cheyenne Ridge	Tradewind	2020	500			Build-Own Transfer		\$ 16 53	\$ -	ERZ-2	Rush Creek 2	\$12
W228	Springfield Wind	Orion	2020	700			PPA	25	\$ 18 97	\$ -	ERZ-3	Badger Hills	\$27
W623	Peetz Table	NextEra	2020	16			PPA	25	\$ 19 41	\$ -	ERZ-1	Pawnee	\$0
W508	Cedar Creek Wind Farm Repower	Leeward	2020	310			PPA	20	\$ 19 44	\$ -	ERZ-1	Keenesburg	\$0
W113	Cedar Point Expansion 198MW BOT	RES	2020	198			Build-Own Transfer		\$ 19 73	\$ -	ERZ-2	Missile Site	\$2
W087	Red Lake Wind	Vindis Eolia	2023	248			PPA	25	\$ 19 85	\$ -	ERZ-1	Ault	\$0
W030	RushCreekIII	Invenergy	2020	450			PPA		\$ 20 30	\$ -	ERZ-2	Pronghorn	\$0
W624	Logan	NextEra	2020	16			PPA	25	\$ 20 54	\$ -	ERZ-1	Pawnee	\$0
W303	CO_Green_BOT	Avangrid	2020	162			Build-Own Transfer		\$ 20 85	\$ -	ERZ-3	Lamar	\$0
W243	Pole Canyon Wind	Pattern	2020	250			PPA	20	\$ 20 88	\$ -	ERZ-5	Comanche	\$2
W413	Ridge Crest Wind	Terra-Gen	2019	30			PPA	5	\$ 21 25	\$ -	ERZ-1	Peetz	\$6
W112	Cedar Point Expansion 198MW PPA	RES	2020	198			PPA	25	\$ 21 38	\$ -	ERZ-2	Missile Site	\$2
W008	Mesa View Wind Energy Center	Invenergy	2020	600			PPA	20	\$ 23 55	\$ -	ERZ-5	Badger Hills	\$12
Q622	Thunder Wolf + Bronco Plains	NextEra	2022	300			PPA	25	\$ 12 19	\$ -	ERZ-2 & 5 / SFR	various	\$0
Q621	Thunder Wolf + Bronco Plains	NextEra	2022	300			PPA	25	\$ 12 45	\$ -	ERZ-2 & 5 / SFR	various	\$0
Q649	Trifecta 2	NextEra	2020	499	140	560	PPA	25	\$ 16 22	\$ -	ERZ-2 & 5 / SFR	various	\$0
Q648	Trifecta 1	NextEra	2020	350	140	560	PPA	25	\$ 18 65	\$ -	ERZ-2 & 5 / SFR	various	\$0
Q650	Trifecta 3	NextEra	2020	300	140	560	PPA	25	\$ 19 02	\$ -	ERZ-2 & 5 / SFR	various	\$0
Q620	Las Animas + Thunder Wolf	NextEra	2022	601			PPA	25	\$ 19 96	\$ -	ERZ-3 & 5 / SFR	various	\$0
Q245	Pole Canyon Wind Solar	Pattern	2020	250			PPA	20	\$ 22 82	\$ -	ERZ-5 / SFR	Comanche	\$0
U693	Bronco Plains	NextEra	2020	499	90	360	PPA	25	\$ 13 61	\$ -	ERZ-2	Rush Creek 2	\$12
U692	Bronco Plains	NextEra	2019	499	90	360	PPA	25	\$ 13 75	\$ -	ERZ-2	Rush Creek 2	\$12
U690	Bronco Plains	NextEra	2020	300	90	360	PPA	25	\$ 15 97	\$ -	ERZ-2	Rush Creek 2	\$12
U694	Bronco Plains	NextEra	2019	301	90	360	PPA	25	\$ 16 45	\$ -	ERZ-2	Rush Creek 2	\$12
U695	Bronco Plains	NextEra	2021	499	90	360	PPA	25	\$ 17 22	\$ -	ERZ-2	Rush Creek 2	\$12
U691	Bronco Plains	NextEra	2021	300	90	360	PPA	25	\$ 20 63	\$ -	ERZ-2	Rush Creek 2	\$12
U698	Las Animas	NextEra	2020	799	90	360	PPA	25	\$ 21 08	\$ -	ERZ-3	Badger Hills	\$27
U193	Cheyenne Ridge	Tradewind	2020	500	99	394	PPA	20	\$ 23 72	\$ -	ERZ-2	Rush Creek 2	\$12
U697	Las Animas	NextEra	2020	601	90	360	PPA	25	\$ 24 19	\$ -	ERZ-3	Badger Hills	\$27
U699	Las Aniams	NextEra	2021	799	90	360	PPA	25	\$ 24 91	\$ -	ERZ-3	Badger Hills	\$27
U696	Las Animas	NextEra	2021	601	90	360	PPA	25	\$ 27 90	\$ -	ERZ-3	Badger Hills	\$27

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Table 2 - Generation Type Letter Codes

Letter Code	Generator Type
A	Compressed Air Storage
B	Biomass
C	Gas Combined Cycle
E	Battery Storage
G	Gas Combustion Turbine
I	Gas Internal Combustion
M	Other w/ Storage or fuel backup
O	Other
Q	Wind/Solar Hybrid
S	Solar PV
U	Wind w/ Storage
W	Wind
X	Solar w/ Storage
Y	CT w/ Storage

Table Notes:

A map of Energy Resource Zones (ERZ) 1 through 5 was provided in Figure 2.5-3 of ERP Volume 2, filed in Proceeding No.16A-0396E. If the bid is located within one of these zones, it is indicated in Table 1.

Four solar resource zones are identified in Table 1:

1. SFR – Southern Front Range
2. NFR - Northern Front Range
3. WS – Western Slope
4. SLV – San Luis Valley

In Table 1, solar resource zones are identified only for bids that included solar generation technology (e.g. solar, solar w/storage, wind w/solar, etc).

As discussed in Section 5 of this report, the review of generator interconnection costs focused on two categories of costs (1) interconnection facilities that will be owned by Public Service but funded by the generator, and (2) network interconnection facilities that will be funded and owned by Public Service. Table 1 includes a breakout of the second category of costs. This second category of costs is not embedded within the bid price but rather is assigned on a bid portfolio basis.

Table 2 provides a reference for discerning generation types from bid IDs referenced in Table 1.

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Bidder Name	Levelized Cost	Levelized Units	Generation Technology Type	Nameplate Capacity (MW)	Battery Nameplate Capacity (MW)	Contract Term or Expected Useful Life (yrs.)	Utility Ownership Option
Able Grid Energy Solutions	\$ 9.87	\$/kW-mo	Battery Energy Storage System	9.5	9.5	20	no
Able Grid Energy Solutions	\$ 10.71	\$/kW-mo	Battery Energy Storage System	50.0	50.0	20	no
Able Grid Energy Solutions	\$ 10.79	\$/kW-mo	Battery Energy Storage System	9.5	9.5	20	n/a
Able Grid Energy Solutions	\$ 10.84	\$/kW-mo	Battery Energy Storage System	10.0	10.0	20	n/a
Able Grid Energy Solutions	\$ 10.93	\$/kW-mo	Battery Energy Storage System	50.0	50.0	20	n/a
Able Grid Energy Solutions	\$ 10.97	\$/kW-mo	Battery Energy Storage System	9.5	9.5	20	no
AEIF Battery Storage	\$ 19.25	\$/kW-mo	Battery Energy Storage System	50.0	50.0	20	no
Convergent Energy and Power LP	\$ 12.99	\$/kW-mo	Battery Energy Storage System	25.0	25.0	20	no
Enel Green Power	\$ 6.09	\$/kW-mo	Battery Energy Storage System	130.0	130.0	20	no
Enel Green Power	\$ 10.06	\$/kW-mo	Battery Energy Storage System	130.0	130.0	20	no
Enel Green Power	\$ 10.35	\$/kW-mo	Battery Energy Storage System	130.0	130.0	20	no
Enel Green Power	\$ 10.35	\$/kW-mo	Battery Energy Storage System	130.0	130.0	20	no
esVolta	\$ 9.27	\$/kW-mo	Battery Energy Storage System	100.0	100.0	20	no
esVolta	\$ 10.07	\$/kW-mo	Battery Energy Storage System	50.0	50.0	20	no
Hecate Energy	\$ 9.53	\$/kW-mo	Battery Energy Storage System	45.0	45.0	25	no
Invenergy	\$ 3.86	\$/kW-mo	Battery Energy Storage System	150.0	150.0	20	no
Invenergy	\$ 5.12	\$/kW-mo	Battery Energy Storage System	70.0	70.0	20	no
Invenergy	\$ 8.69	\$/kW-mo	Battery Energy Storage System	20.0	20.0	20	no
NextEra	\$ 8.61	\$/kW-mo	Battery Energy Storage System	100.0	100.0	25	no
NextEra	\$ 8.61	\$/kW-mo	Battery Energy Storage System	150.0	150.0	25	no
NextEra	\$ 9.62	\$/kW-mo	Battery Energy Storage System	50.0	50.0	25	no
NextEra	\$ 13.91	\$/kW-mo	Battery Energy Storage System	100.0	100.0	25	no
NextEra	\$ 13.91	\$/kW-mo	Battery Energy Storage System	150.0	150.0	25	no
NextEra	\$ 14.93	\$/kW-mo	Battery Energy Storage System	50.0	50.0	25	no
NextEra	\$ 16.89	\$/kW-mo	Battery Energy Storage System	100.0	100.0	25	no
NextEra	\$ 16.89	\$/kW-mo	Battery Energy Storage System	150.0	150.0	25	no
NextEra	\$ 17.98	\$/kW-mo	Battery Energy Storage System	50.0	50.0	25	no
Tesla	\$ 14.93	\$/kW-mo	Battery Energy Storage System	75.0	75.0	10	n/a
Primary Energy Recycling	\$ 178.75	\$/MWh	Biomass	8.5	-	20	no
Apex CAES	\$ 14.62	\$/kW-mo	Compressed Air Energy Storage	316.8	-	45	n/a
BIV Generation Company	\$ 3.58	\$/kW-mo	Gas Combined Cycle	147.0	-	10	no
Heorot Power Holdings	\$ 7.56	\$/kW-mo	Gas Combined Cycle	318.0	-	20	no
NextEra	\$ 11.17	\$/kW-mo	Gas Combined Cycle	544.6	-	25	no
Southwest Generation	\$ 7.25	\$/kW-mo	Gas Combined Cycle	10.0	-	24	no
Alliance Energy	\$ 7.10	\$/kW-mo	Gas Combustion Turbine	39.7	-	15	no
Atlantic	\$ 1.53	\$/kW-mo	Gas Combustion Turbine	301.1	-	19	n/a
Atlantic	\$ 1.88	\$/kW-mo	Gas Combustion Turbine	301.1	-	19	n/a
Atlantic	\$ 3.36	\$/kW-mo	Gas Combustion Turbine	301.0	-	20	no
Invenergy	\$ 4.26	\$/kW-mo	Gas Combustion Turbine	22.0	-	9	no
Invenergy	\$ 5.08	\$/kW-mo	Gas Combustion Turbine	197.0	-	25	no
Invenergy	\$ 5.10	\$/kW-mo	Gas Combustion Turbine	197.0	-	40	n/a
NextEra	\$ 6.04	\$/kW-mo	Gas Combustion Turbine	604.8	-	25	no
NextEra	\$ 6.74	\$/kW-mo	Gas Combustion Turbine	403.2	-	25	no
NextEra	\$ 9.13	\$/kW-mo	Gas Combustion Turbine	201.6	-	25	no
Southern Power Company	\$ 5.01	\$/kW-mo	Gas Combustion Turbine	394.0	-	20	no
Southwest Generation	\$ 2.26	\$/kW-mo	Gas Combustion Turbine	82.0	-	20	n/a
Southwest Generation	\$ 2.43	\$/kW-mo	Gas Combustion Turbine	82.0	-	20	n/a
Southwest Generation	\$ 4.21	\$/kW-mo	Gas Combustion Turbine	82.0	-	25	no
Southwest Generation	\$ 4.31	\$/kW-mo	Gas Combustion Turbine	82.0	-	25	no
Southwest Generation	\$ 4.32	\$/kW-mo	Gas Combustion Turbine	82.0	-	25	no
Southwest Generation	\$ 4.65	\$/kW-mo	Gas Combustion Turbine	28.0	-	12	no
Xcel Energy	\$ 1.91	\$/kW-mo	Gas Combustion Turbine	301.0	-	19	n/a
Xcel Energy	\$ 1.91	\$/kW-mo	Gas Combustion Turbine	301.0	-	19	n/a
Xcel Energy	\$ 5.09	\$/kW-mo	Gas Combustion Turbine	400.8	-	40	n/a
Xcel Energy	\$ 5.32	\$/kW-mo	Gas Combustion Turbine	400.8	-	40	n/a
Xcel Energy	\$ 5.85	\$/kW-mo	Gas Combustion Turbine	200.4	-	40	n/a
Xcel Energy	\$ 5.88	\$/kW-mo	Gas Combustion Turbine	200.4	-	40	n/a
Xcel Energy	\$ 5.96	\$/kW-mo	Gas Combustion Turbine	200.4	-	40	n/a
Xcel Energy	\$ 6.05	\$/kW-mo	Gas Combustion Turbine	200.4	-	40	n/a
Xcel Energy	\$ 6.11	\$/kW-mo	Gas Combustion Turbine	200.4	-	40	n/a
Xcel Energy	\$ 6.35	\$/kW-mo	Gas Combustion Turbine	200.4	-	40	n/a
Invenergy	\$ 4.62	\$/kW-mo	Gas Combustion Turbine + Storage	197.0	200.0	25	no
Invenergy	\$ 5.65	\$/kW-mo	Gas Combustion Turbine + Storage	197.0	100.0	25	no

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Bidder Name	Levelized Cost	Levelized Units	Generation Technology Type	Nameplate Capacity (MW)	Battery Nameplate Capacity (MW)	Contract Term or Expected Useful Life (yrs.)	Utility Ownership Option
Southwest Generation	\$ 4.76	\$/kW-mo	Gas Combustion Turbine + Storage	82.0	20.0	35	n/a
Southwest Generation	\$ 4.85	\$/kW-mo	Gas Combustion Turbine + Storage	82.0	20.0	34	n/a
Southwest Generation	\$ 6.28	\$/kW-mo	Gas Combustion Turbine + Storage	82.0	20.0	20	no
Southwest Generation	\$ 6.57	\$/kW-mo	Gas Combustion Turbine + Storage	82.0	20.0	20	no
Southwest Generation	\$ 6.88	\$/kW-mo	Gas Combustion Turbine + Storage	82.0	20.0	20	no
Wärtsilä	\$ 12.40	\$/kW-mo	Gas Internal Combustion Engine	212.0	-	30	n/a
Starlight Energy	\$ 50.00	\$/MWh	Solar + Gas	4.8	-	25	no
174 Power Global Corp	\$ 26.98	\$/MWh	Solar + Storage	400.4	60.0	25	no
AES Distributed Energy	\$ 69.09	\$/MWh	Solar + Storage	50.0	50.0	25	no
Algonquin Power Co.	\$ 42.00	\$/MWh	Solar + Storage	200.0	50.0	20	no
Avangrid	\$ 40.86	\$/MWh	Solar + Storage	100.0	25.0	25	no
Avangrid	\$ 40.86	\$/MWh	Solar + Storage	150.0	37.5	25	no
Avangrid	\$ 40.86	\$/MWh	Solar + Storage	150.0	37.5	25	no
Avangrid	\$ 40.86	\$/MWh	Solar + Storage	100.0	25.0	25	no
Avangrid	\$ 43.08	\$/MWh	Solar + Storage	50.0	12.5	25	no
Avangrid	\$ 44.41	\$/MWh	Solar + Storage	100.0	25.0	25	no
Avangrid	\$ 44.41	\$/MWh	Solar + Storage	100.0	25.0	25	no
Avangrid	\$ 44.41	\$/MWh	Solar + Storage	100.0	25.0	25	no
Avangrid	\$ 44.41	\$/MWh	Solar + Storage	100.0	25.0	25	no
Avangrid	\$ 45.41	\$/MWh	Solar + Storage	31.0	7.5	25	no
Community Energy	\$ 43.46	\$/MWh	Solar + Storage	160.0	150.0	20	no
Coronal Energy	\$ 31.14	\$/MWh	Solar + Storage	110.0	50.0	20	no
Cypress Creek	\$ 31.96	\$/MWh	Solar + Storage	75.0	37.5	20	no
Cypress Creek	\$ 33.48	\$/MWh	Solar + Storage	74.9	37.5	20	no
Cypress Creek	\$ 38.10	\$/MWh	Solar + Storage	75.0	75.0	20	no
Cypress Creek	\$ 39.74	\$/MWh	Solar + Storage	74.9	75.0	20	no
E.ON	\$ 29.92	\$/MWh	Solar + Storage	100.0	10.0	20	no
E.ON	\$ 30.50	\$/MWh	Solar + Storage	100.0	10.0	20	no
E.ON	\$ 32.53	\$/MWh	Solar + Storage	100.0	10.0	20	no
E.ON	\$ 37.47	\$/MWh	Solar + Storage	100.0	20.0	20	no
E.ON	\$ 38.03	\$/MWh	Solar + Storage	100.0	20.0	20	no
E.ON	\$ 40.44	\$/MWh	Solar + Storage	100.0	20.0	20	no
EDF Renewable Development		\$/MWh	Solar + Storage	160.0	40.0	20	n/a
EDF Renewable Development	\$ 31.81	\$/MWh	Solar + Storage	160.0	40.0	20	no
EDP Renewables	\$ 30.25	\$/MWh	Solar + Storage	500.0	95.0	20	no
EDP Renewables	\$ 31.50	\$/MWh	Solar + Storage	500.0	95.0	20	no
EDP Renewables	\$ 34.25	\$/MWh	Solar + Storage	250.0	56.0	20	no
EDP Renewables	\$ 36.00	\$/MWh	Solar + Storage	272.0	56.0	20	no
EDP Renewables	\$ 50.97	\$/MWh	Solar + Storage	500.0	95.0	35	n/a
EDP Renewables	\$ 51.49	\$/MWh	Solar + Storage	500.0	95.0	35	n/a
EDP Renewables	\$ 53.88	\$/MWh	Solar + Storage	250.0	56.0	35	n/a
EDP Renewables	\$ 55.26	\$/MWh	Solar + Storage	272.0	56.0	35	n/a
First Solar Development	\$ 26.27	\$/MWh	Solar + Storage	200.0	17.5	20	no
First Solar Development	\$ 26.57	\$/MWh	Solar + Storage	200.0	20.0	20	no
First Solar Development	\$ 28.50	\$/MWh	Solar + Storage	100.0	10.0	20	no
First Solar Development	\$ 29.87	\$/MWh	Solar + Storage	200.0	20.0	25	no
First Solar Development	\$ 41.41	\$/MWh	Solar + Storage	200.0	17.5	30	n/a
First Solar Development	\$ 42.21	\$/MWh	Solar + Storage	220.0	20.0	30	n/a
First Solar Development	\$ 45.42	\$/MWh	Solar + Storage	100.0	10.0	30	n/a
GCL New Energy	\$ 32.35	\$/MWh	Solar + Storage	150.0	60.0	20	no
GCL New Energy	\$ 62.04	\$/MWh	Solar + Storage	150.0	60.0	30	n/a
Geronimo Energy	\$ 59.13	\$/MWh	Solar + Storage	100.0	100.0	20	no
Geronimo Energy	\$ 105.58	\$/MWh	Solar + Storage	20.0	20.0	20	no
Hecate Energy	\$ 32.67	\$/MWh	Solar + Storage	150.0	45.0	25	no
ibV Energy Partners	\$ 67.42	\$/MWh	Solar + Storage	150.0	90.0	20	no
ibV Energy Partners	\$ 68.45	\$/MWh	Solar + Storage	150.0	90.0	25	no
Invenergy	\$ 37.00	\$/MWh	Solar + Storage	250.0	100.0	20	no
Invenergy	\$ 40.18	\$/MWh	Solar + Storage	250.0	100.0	20	no
Juwi	\$ 33.36	\$/MWh	Solar + Storage	150.0	35.0	20	no
Juwi	\$ 33.64	\$/MWh	Solar + Storage	230.0	50.0	20	no
Juwi	\$ 55.03	\$/MWh	Solar + Storage	230.0	50.0	35	n/a
Juwi	\$ 55.25	\$/MWh	Solar + Storage	150.0	35.0	35	n/a
Missile Site Solar	\$ 61.80	\$/MWh	Solar + Storage	150.0	150.0	25	no

EXHIBIT A

Bidder Name	Levelized Cost Levelized Units Generation Technology Type			Contract			
				Nameplate Capacity (MW)	Battery	Term or	Utility Ownership
					Nameplate Capacity (MW)	Expected Useful Life (yrs.)	
	Cost	Units		(MW)	(MW)		Option
NextEra	\$ 24.04	\$/MWh	Solar + Storage	350.0	50.0	25	no
NextEra	\$ 26.25	\$/MWh	Solar + Storage	200.0	50.0	25	no
NextEra	\$ 26.37	\$/MWh	Solar + Storage	200.0	50.0	25	no
NextEra	\$ 26.48	\$/MWh	Solar + Storage	250.0	50.0	25	no
NextEra	\$ 31.22	\$/MWh	Solar + Storage	200.0	100.0	25	no
NextEra	\$ 31.41	\$/MWh	Solar + Storage	200.0	100.0	25	no
NextEra	\$ 31.50	\$/MWh	Solar + Storage	350.0	175.0	25	no
NextEra	\$ 32.44	\$/MWh	Solar + Storage	250.0	125.0	25	no
NextEra	\$ 32.74	\$/MWh	Solar + Storage	200.0	100.0	25	no
NextEra	\$ 33.01	\$/MWh	Solar + Storage	200.0	100.0	25	no
NextEra	\$ 33.06	\$/MWh	Solar + Storage	350.0	175.0	25	no
NextEra	\$ 33.99	\$/MWh	Solar + Storage	250.0	125.0	25	no
Pattern Development	\$ 38.87	\$/MWh	Solar + Storage	150.0	45.0	20	no
Pattern Development	\$ 55.64	\$/MWh	Solar + Storage	150.0	45.0	35	n/a
Recurrent Energy	\$ 32.61	\$/MWh	Solar + Storage	400.0	400.0	20	no
Recurrent Energy	\$ 33.72	\$/MWh	Solar + Storage	200.0	200.0	20	no
Recurrent Energy	\$ 55.29	\$/MWh	Solar + Storage	400.0	400.0	35	n/a
Recurrent Energy	\$ 60.12	\$/MWh	Solar + Storage	200.0	200.0	35	n/a
Southern Power Company	\$ 43.00	\$/MWh	Solar + Storage	100.0	50.0	20	no
SunPower Corporation	\$ 42.72	\$/MWh	Solar + Storage	80.0	40.0	20	no
Terra-Gen	\$ 39.88	\$/MWh	Solar + Storage	200.0	50.0	25	no
Tradewind	\$ 39.50	\$/MWh	Solar + Storage	100.0	25.0	20	no
174 Power Global Corp	\$ 23.49	\$/MWh	Solar PV	400.4	-	25	no
174 Power Global Corp	\$ 26.98	\$/MWh	Solar PV	440.0	-	25	no
Adani	\$ 26.84	\$/MWh	Solar PV	37.8	-	25	no
Adani	\$ 26.84	\$/MWh	Solar PV	72.0	-	25	no
Adani	\$ 26.84	\$/MWh	Solar PV	72.0	-	25	no
AES Distributed Energy	\$ 32.40	\$/MWh	Solar PV	50.0	-	25	no
Avangrid	\$ 30.96	\$/MWh	Solar PV	50.0	-	25	no
Avangrid	\$ 31.40	\$/MWh	Solar PV	100.0	-	25	no
Avangrid	\$ 31.40	\$/MWh	Solar PV	150.0	-	25	no
Avangrid	\$ 31.40	\$/MWh	Solar PV	150.0	-	25	no
Avangrid	\$ 31.40	\$/MWh	Solar PV	100.0	-	25	no
Avangrid	\$ 34.95	\$/MWh	Solar PV	100.0	-	25	no
Avangrid	\$ 34.95	\$/MWh	Solar PV	100.0	-	25	no
Avangrid	\$ 34.95	\$/MWh	Solar PV	100.0	-	25	no
Avangrid	\$ 34.95	\$/MWh	Solar PV	100.0	-	25	no
Avangrid	\$ 34.95	\$/MWh	Solar PV	100.0	-	25	no
Avangrid	\$ 37.05	\$/MWh	Solar PV	31.0	-	25	no
Clenera	\$ 24.90	\$/MWh	Solar PV	250.0	-	25	no
Clenera	\$ 37.20	\$/MWh	Solar PV	250.0	-	25	no
Community Energy	\$ 23.51	\$/MWh	Solar PV	720.0	-	25	no
Community Energy	\$ 23.96	\$/MWh	Solar PV	300.0	-	25	no
Community Energy	\$ 25.58	\$/MWh	Solar PV	720.0	-	25	no
Community Energy	\$ 25.58	\$/MWh	Solar PV	720.0	-	25	no
Community Energy	\$ 26.48	\$/MWh	Solar PV	720.0	-	25	no
Community Power Group	\$ 35.23	\$/MWh	Solar PV	22.6	-	25	no
Coronal Energy	\$ 22.53	\$/MWh	Solar PV	74.9	-	20	no
Coronal Energy	\$ 23.22	\$/MWh	Solar PV	50.0	-	20	no
Coronal Energy	\$ 25.54	\$/MWh	Solar PV	40.0	-	20	no
Coronal Energy	\$ 43.99	\$/MWh	Solar PV	74.9	-	35	n/a
Coronal Energy	\$ 45.65	\$/MWh	Solar PV	50.0	-	35	n/a
Coronal Energy	\$ 48.22	\$/MWh	Solar PV	40.0	-	35	n/a
Cypress Creek Renewables	\$ 26.25	\$/MWh	Solar PV	75.0	-	20	no
Cypress Creek Renewables	\$ 27.55	\$/MWh	Solar PV	74.9	-	20	no
Cypress Creek Renewables	\$ 30.25	\$/MWh	Solar PV	74.9	-	20	no
E.ON	\$ 26.60	\$/MWh	Solar PV	100.0	-	25	no
E.ON	\$ 27.07	\$/MWh	Solar PV	100.0	-	25	no
E.ON	\$ 29.47	\$/MWh	Solar PV	100.0	-	25	no
E.ON	\$ 43.84	\$/MWh	Solar PV	100.0	-	35	n/a
E.ON	\$ 45.09	\$/MWh	Solar PV	100.0	-	35	n/a
E.ON	\$ 46.66	\$/MWh	Solar PV	100.0	-	35	n/a
Eagle Solar Group	\$ 28.80	\$/MWh	Solar PV	122.5	-	25	no
EDF Renewable Development	\$ 27.95	\$/MWh	Solar PV	160.0	-	20	no

EXHIBIT A

Bidder Name	Levelized Cost	Levelized Units	Generation Technology Type	Nameplate Capacity (MW)	Battery Nameplate Capacity (MW)	Contract	
						Term or	Utility
						Expected Useful Life (yrs.)	Ownership Option
EDF Renewable Development	\$ 30.30	\$/MWh	Solar PV	100.0	-	20	no
EDF Renewable Development	\$ 42.17	\$/MWh	Solar PV	160.0	-	35	n/a
EDF Renewable Development	\$ 44.45	\$/MWh	Solar PV	100.0	-	35	n/a
EDP Renewables	\$ 20.50	\$/MWh	Solar PV	500.0	-	20	no
EDP Renewables	\$ 22.00	\$/MWh	Solar PV	500.0	-	20	no
EDP Renewables	\$ 23.00	\$/MWh	Solar PV	250.0	-	20	no
EDP Renewables	\$ 24.50	\$/MWh	Solar PV	272.0	-	20	no
EDP Renewables	\$ 40.34	\$/MWh	Solar PV	500.0	-	35	n/a
EDP Renewables	\$ 41.56	\$/MWh	Solar PV	250.0	-	35	n/a
EDP Renewables	\$ 41.61	\$/MWh	Solar PV	500.0	-	35	n/a
EDP Renewables	\$ 42.27	\$/MWh	Solar PV	272.0	-	35	n/a
First Solar Development	\$ 22.92	\$/MWh	Solar PV	199.2	-	20	no
First Solar Development	\$ 24.85	\$/MWh	Solar PV	204.4	-	20	no
First Solar Development	\$ 27.00	\$/MWh	Solar PV	102.2	-	20	no
First Solar Development	\$ 28.00	\$/MWh	Solar PV	204.4	-	25	no
First Solar Development	\$ 34.70	\$/MWh	Solar PV	195.0	-	30	n/a
First Solar Development	\$ 36.60	\$/MWh	Solar PV	200.0	-	30	n/a
First Solar Development	\$ 40.33	\$/MWh	Solar PV	100.0	-	30	n/a
GCL New Energy	\$ 27.57	\$/MWh	Solar PV	150.0	-	20	no
GCL New Energy	\$ 49.31	\$/MWh	Solar PV	150.0	-	30	n/a
Geronimo Energy	\$ 34.97	\$/MWh	Solar PV	100.0	-	25	no
Geronimo Energy	\$ 35.91	\$/MWh	Solar PV	300.0	-	25	no
Geronimo Energy	\$ 42.48	\$/MWh	Solar PV	50.0	-	25	no
Geronimo Energy	\$ 45.84	\$/MWh	Solar PV	20.0	-	25	no
Hecate Energy	\$ 26.13	\$/MWh	Solar PV	150.0	-	25	no
Hecate Energy	\$ 42.30	\$/MWh	Solar PV	150.0	-	35	n/a
ibV Energy Partners	\$ 33.34	\$/MWh	Solar PV	100.0	-	20	no
ibV Energy Partners	\$ 33.45	\$/MWh	Solar PV	150.0	-	20	no
ibV Energy Partners	\$ 37.17	\$/MWh	Solar PV	100.0	-	25	no
ibV Energy Partners	\$ 37.29	\$/MWh	Solar PV	150.0	-	25	no
Innovative Solar Systems	\$ 32.25	\$/MWh	Solar PV	40.0	-	25	no
Intersect Power	\$ 19.91	\$/MWh	Solar PV	550.0	-	15	no
Intersect Power	\$ 22.79	\$/MWh	Solar PV	200.0	-	15	no
Intersect Power	\$ 40.40	\$/MWh	Solar PV	550.0	-	35	n/a
Intersect Power	\$ 41.95	\$/MWh	Solar PV	200.0	-	35	n/a
Invenergy	\$ 22.20	\$/MWh	Solar PV	500.0	-	20	no
Invenergy	\$ 23.70	\$/MWh	Solar PV	250.0	-	20	no
Invenergy	\$ 25.00	\$/MWh	Solar PV	500.0	-	20	no
Invenergy	\$ 25.40	\$/MWh	Solar PV	500.0	-	20	no
Invenergy	\$ 26.52	\$/MWh	Solar PV	250.0	-	20	no
Invenergy	\$ 35.90	\$/MWh	Solar PV	50.0	-	20	no
Juwi	\$ 22.75	\$/MWh	Solar PV	230.0	-	20	no
Juwi	\$ 24.55	\$/MWh	Solar PV	150.0	-	20	no
Juwi	\$ 26.15	\$/MWh	Solar PV	230.0	-	20	no
Juwi	\$ 28.50	\$/MWh	Solar PV	150.0	-	20	no
Juwi	\$ 28.95	\$/MWh	Solar PV	100.0	-	20	no
Juwi	\$ 39.76	\$/MWh	Solar PV	230.0	-	35	n/a
Juwi	\$ 42.92	\$/MWh	Solar PV	150.0	-	35	n/a
Juwi	\$ 43.60	\$/MWh	Solar PV	230.0	-	35	n/a
Juwi	\$ 45.71	\$/MWh	Solar PV	100.0	-	35	n/a
Juwi	\$ 46.75	\$/MWh	Solar PV	150.0	-	35	n/a
Lendlease Energy Development	\$ 22.85	\$/MWh	Solar PV	190.0	-	25	no
Lendlease Energy Development	\$ 23.45	\$/MWh	Solar PV	150.0	-	25	no
Lendlease Energy Development	\$ 24.25	\$/MWh	Solar PV	190.0	-	25	no
Lendlease Energy Development	\$ 24.85	\$/MWh	Solar PV	150.0	-	25	no
Lendlease Energy Development	\$ 25.45	\$/MWh	Solar PV	215.0	-	25	no
Lendlease Energy Development	\$ 26.95	\$/MWh	Solar PV	215.0	-	25	no
Lendlease Energy Development	\$ 37.29	\$/MWh	Solar PV	190.0	-	35	n/a
Lendlease Energy Development	\$ 37.91	\$/MWh	Solar PV	150.0	-	35	n/a
Lendlease Energy Development	\$ 39.82	\$/MWh	Solar PV	215.0	-	35	n/a
Lendlease Energy Development	\$ 40.46	\$/MWh	Solar PV	190.0	-	35	n/a
Lendlease Energy Development	\$ 41.12	\$/MWh	Solar PV	150.0	-	35	n/a
Lendlease Energy Development	\$ 43.28	\$/MWh	Solar PV	215.0	-	35	n/a

EXHIBIT A

Bidder Name	Levelized Cost	Levelized Units	Generation Technology Type	Nameplate Capacity (MW)	Battery Nameplate Capacity (MW)	Contract	
						Term or	Utility
						Expected Useful Life (yrs.)	Ownership Option
Longroad Development Company	\$ 32.50	\$/MWh	Solar PV	50.0	-	25	no
Longroad Development Company	\$ 32.75	\$/MWh	Solar PV	50.0	-	20	no
Longroad Development Company	\$ 57.39	\$/MWh	Solar PV	50.0	-	35	n/a
Missile Site Solar	\$ 33.80	\$/MWh	Solar PV	150.0	-	25	no
NextEra	\$ 20.03	\$/MWh	Solar PV	200.0	-	25	no
NextEra	\$ 20.18	\$/MWh	Solar PV	200.0	-	25	no
NextEra	\$ 20.50	\$/MWh	Solar PV	350.0	-	25	no
NextEra	\$ 21.50	\$/MWh	Solar PV	250.0	-	25	no
NextEra	\$ 21.59	\$/MWh	Solar PV	200.0	-	25	no
NextEra	\$ 21.70	\$/MWh	Solar PV	200.0	-	25	no
NextEra	\$ 22.04	\$/MWh	Solar PV	350.0	-	25	no
NextEra	\$ 22.79	\$/MWh	Solar PV	100.0	-	25	no
NextEra	\$ 23.05	\$/MWh	Solar PV	250.0	-	25	no
NextEra	\$ 33.95	\$/MWh	Solar PV	200.0	-	30	n/a
NextEra	\$ 36.04	\$/MWh	Solar PV	200.0	-	30	n/a
NextEra	\$ 37.05	\$/MWh	Solar PV	100.0	-	30	n/a
Owl Creek Renewables	\$ 27.00	\$/MWh	Solar PV	150.0	-	25	no
Owl Creek Renewables	\$ 27.50	\$/MWh	Solar PV	150.0	-	25	no
Owl Creek Renewables	\$ 29.00	\$/MWh	Solar PV	150.0	-	25	no
Owl Creek Renewables	\$ 30.50	\$/MWh	Solar PV	150.0	-	25	no
Owl Creek Renewables	\$ 54.25	\$/MWh	Solar PV	150.0	-	35	n/a
Owl Creek Renewables	\$ 55.96	\$/MWh	Solar PV	150.0	-	35	n/a
Pattern Development	\$ 27.75	\$/MWh	Solar PV	150.0	-	20	no
Pattern Development	\$ 45.39	\$/MWh	Solar PV	150.0	-	35	n/a
Recurrent Energy	\$ 24.74	\$/MWh	Solar PV	400.0	-	20	no
Recurrent Energy	\$ 24.98	\$/MWh	Solar PV	200.0	-	20	no
Recurrent Energy	\$ 26.37	\$/MWh	Solar PV	400.0	-	25	no
Recurrent Energy	\$ 26.60	\$/MWh	Solar PV	200.0	-	25	no
Recurrent Energy	\$ 42.59	\$/MWh	Solar PV	200.0	-	35	n/a
Recurrent Energy	\$ 42.59	\$/MWh	Solar PV	400.0	-	35	n/a
Saturn Power	\$ 36.45	\$/MWh	Solar PV	150.0	-	20	no
Sharper Energy Technologies	\$ 54.15	\$/MWh	Solar PV	10.0	-	25	no
Solairedirect / ENGIE	\$ 27.77	\$/MWh	Solar PV	250.0	-	25	no
sPower	\$ 28.60	\$/MWh	Solar PV	240.0	-	25	no
sPower	\$ 30.69	\$/MWh	Solar PV	80.0	-	25	no
SunPower Corporation	\$ 32.95	\$/MWh	Solar PV	110.0	-	25	no
Terra-Gen	\$ 31.50	\$/MWh	Solar PV	200.0	-	25	no
Terra-Gen	\$ 32.50	\$/MWh	Solar PV	200.0	-	25	no
Terra-Gen	\$ 32.50	\$/MWh	Solar PV	240.0	-	25	no
Tradewind	\$ 29.50	\$/MWh	Solar PV	200.0	-	20	no
Tradewind	\$ 29.95	\$/MWh	Solar PV	100.0	-	20	no
Tradewind	\$ 44.51	\$/MWh	Solar PV	200.0	-	35	n/a
Tradewind	\$ 48.47	\$/MWh	Solar PV	100.0	-	35	n/a
Ormat Nevada	\$ 22.17	\$/kW-mo	Waste Heat	10.6	-	30	n/a
Ormat Nevada	\$ 55.35	\$/MWh	Waste Heat	10.6	-	20	no
Apex Clean Energy	\$ 16.00	\$/MWh	Wind	300.0	-	25	no
Apex Clean Energy	\$ 16.20	\$/MWh	Wind	1,000.0	-	20	no
Apex Clean Energy	\$ 16.48	\$/MWh	Wind	1,000.0	-	25	n/a
Apex Clean Energy	\$ 16.50	\$/MWh	Wind	300.0	-	20	no
Apex Clean Energy	\$ 17.20	\$/MWh	Wind	300.0	-	20	no
Apex Clean Energy	\$ 17.23	\$/MWh	Wind	300.0	-	25	n/a
Apex Clean Energy	\$ 17.87	\$/MWh	Wind	300.0	-	25	n/a
Avangrid	\$ 14.16	\$/MWh	Wind	162.0	-	20	no
Avangrid	\$ 14.71	\$/MWh	Wind	121.0	-	20	no
Avangrid	\$ 14.98	\$/MWh	Wind	630.0	-	20	no
Avangrid	\$ 14.99	\$/MWh	Wind	630.0	-	20	no
Avangrid	\$ 14.99	\$/MWh	Wind	630.0	-	20	no
Avangrid	\$ 15.48	\$/MWh	Wind	630.0	-	20	no
Avangrid	\$ 17.31	\$/MWh	Wind	630.0	-	25	no
Avangrid	\$ 17.31	\$/MWh	Wind	630.0	-	25	no
Avangrid	\$ 17.31	\$/MWh	Wind	630.0	-	25	no
Avangrid	\$ 17.81	\$/MWh	Wind	630.0	-	25	no
Avangrid	\$ 20.67	\$/MWh	Wind	162.0	-	25	n/a

EXHIBIT A

Bidder Name	Levelized Cost	Levelized Units	Generation Technology Type	Nameplate Capacity (MW)	Battery Nameplate Capacity (MW)	Contract	
						Term or	Utility
						Expected Useful Life (yrs.)	Ownership Option
Clear Creek Power	\$ 15.85	\$/MWh	Wind	180.6	-	25	no
EDF Renewable Development	\$ 27.76	\$/MWh	Wind	500.0	-	25	n/a
EDF Renewable Development	\$ 28.88	\$/MWh	Wind	300.0	-	25	n/a
EDP Renewables	\$ 14.00	\$/MWh	Wind	260.0	-	20	no
EDP Renewables	\$ 15.74	\$/MWh	Wind	500.0	-	30	n/a
EDP Renewables	\$ 17.00	\$/MWh	Wind	260.0	-	20	no
EDP Renewables	\$ 17.34	\$/MWh	Wind	260.0	-	30	n/a
EDP Renewables	\$ 17.65	\$/MWh	Wind	500.0	-	30	n/a
EDP Renewables	\$ 20.57	\$/MWh	Wind	260.0	-	30	n/a
Enyo Renewable Energy	\$ 19.75	\$/MWh	Wind	150.0	-	25	no
Geronimo Energy	\$ 19.70	\$/MWh	Wind	600.0	-	25	no
Infinity Renewables	\$ 14.65	\$/MWh	Wind	199.5	-	20	no
Infinity Renewables	\$ 17.43	\$/MWh	Wind	199.5	-	30	n/a
Invenergy	\$ 17.77	\$/MWh	Wind	450.0	-	30	n/a
Invenergy	\$ 20.07	\$/MWh	Wind	799.0	-	30	n/a
Invenergy	\$ 20.30	\$/MWh	Wind	450.0	-	20	no
Invenergy	\$ 21.20	\$/MWh	Wind	798.6	-	20	no
Invenergy	\$ 21.23	\$/MWh	Wind	600.0	-	30	n/a
Invenergy	\$ 22.35	\$/MWh	Wind	600.0	-	20	no
Invenergy	\$ 23.33	\$/MWh	Wind	450.0	-	30	n/a
Invenergy	\$ 23.45	\$/MWh	Wind	797.8	-	20	no
Invenergy	\$ 23.55	\$/MWh	Wind	599.6	-	20	no
Invenergy	\$ 23.65	\$/MWh	Wind	998.5	-	20	no
Invenergy	\$ 23.67	\$/MWh	Wind	600.0	-	30	n/a
Invenergy	\$ 23.89	\$/MWh	Wind	399.0	-	30	n/a
Invenergy	\$ 24.14	\$/MWh	Wind	798.0	-	30	n/a
Invenergy	\$ 24.71	\$/MWh	Wind	999.0	-	30	n/a
Invenergy	\$ 25.75	\$/MWh	Wind	398.9	-	20	no
Invenergy	\$ 27.56	\$/MWh	Wind	399.0	-	30	n/a
Leeward	\$ 14.50	\$/MWh	Wind	169.0	-	25	no
Leeward	\$ 15.00	\$/MWh	Wind	6.4	-	8	no
Leeward	\$ 18.00	\$/MWh	Wind	169.0	-	25	no
Leeward	\$ 21.00	\$/MWh	Wind	169.0	-	30	n/a
Leeward	\$ 22.08	\$/MWh	Wind	9.7	-	20	no
Nereo GreenCapital	\$ 14.90	\$/MWh	Wind	298.8	-	25	no
Nereo GreenCapital	\$ 16.17	\$/MWh	Wind	298.8	-	30	n/a
NextEra	\$ 10.32	\$/MWh	Wind	499.1	-	25	no
NextEra	\$ 10.44	\$/MWh	Wind	499.3	-	25	no
NextEra	\$ 10.68	\$/MWh	Wind	300.3	-	25	no
NextEra	\$ 11.16	\$/MWh	Wind	301.4	-	25	no
NextEra	\$ 13.92	\$/MWh	Wind	499.1	-	25	no
NextEra	\$ 14.39	\$/MWh	Wind	499.3	-	30	n/a
NextEra	\$ 14.48	\$/MWh	Wind	300.3	-	30	n/a
NextEra	\$ 14.74	\$/MWh	Wind	301.4	-	30	n/a
NextEra	\$ 15.36	\$/MWh	Wind	300.3	-	25	no
NextEra	\$ 15.46	\$/MWh	Wind	499.3	-	30	n/a
NextEra	\$ 16.78	\$/MWh	Wind	499.1	-	30	n/a
NextEra	\$ 18.07	\$/MWh	Wind	300.3	-	30	n/a
NextEra	\$ 18.83	\$/MWh	Wind	799.4	-	25	no
NextEra	\$ 19.41	\$/MWh	Wind	16.0	-	25	no
NextEra	\$ 20.54	\$/MWh	Wind	16.1	-	25	no
NextEra	\$ 21.24	\$/MWh	Wind	600.8	-	25	no
NextEra	\$ 22.68	\$/MWh	Wind	799.4	-	25	no
NextEra	\$ 23.71	\$/MWh	Wind	799.4	-	30	n/a
NextEra	\$ 24.63	\$/MWh	Wind	600.8	-	30	n/a
NextEra	\$ 24.95	\$/MWh	Wind	600.8	-	25	no
NextEra	\$ 25.36	\$/MWh	Wind	799.4	-	30	n/a
NextEra	\$ 27.36	\$/MWh	Wind	600.8	-	30	n/a
Orion Renewable Energy Group	\$ 16.66	\$/MWh	Wind	700.0	-	25	n/a
Orion Renewable Energy Group	\$ 18.97	\$/MWh	Wind	700.0	-	25	no
Pattern Development	\$ 20.88	\$/MWh	Wind	250.0	-	20	no
Pattern Development	\$ 24.53	\$/MWh	Wind	250.0	-	25	n/a
Red Lake Wind F	\$ 43.90	\$/MWh	Wind	248.4	-	25	no

EXHIBIT A

Bidder Name	Levelized Cost	Levelized Units	Generation Technology Type	Contract			
				Nameplate Capacity (MW)	Battery Nameplate Capacity (MW)	Term or Expected Useful Life (yrs.)	Utility Ownership Option
RES America Developments	\$ 17.27	\$/MWh	Wind	398.4	-	25	no
RES America Developments	\$ 17.94	\$/MWh	Wind	398.4	-	25	n/a
RES America Developments	\$ 19.55	\$/MWh	Wind	398.4	-	25	no
RES America Developments	\$ 19.73	\$/MWh	Wind	198.4	-	25	n/a
RES America Developments	\$ 21.38	\$/MWh	Wind	198.4	-	25	no
sPower	\$ 20.22	\$/MWh	Wind	550.0	-	25	no
Terra-Gen	\$ 21.25	\$/MWh	Wind	29.7	-	5	no
Tradewind	\$ 12.45	\$/MWh	Wind	250.0	-	20	no
Tradewind	\$ 12.45	\$/MWh	Wind	250.0	-	20	no
Tradewind	\$ 12.65	\$/MWh	Wind	500.0	-	20	no
Tradewind	\$ 16.45	\$/MWh	Wind	250.0	-	20	no
Tradewind	\$ 18.22	\$/MWh	Wind	500.0	-	25	n/a
Tradewind	\$ 20.03	\$/MWh	Wind	500.0	-	25	n/a
Tradewind	\$ 20.46	\$/MWh	Wind	250.0	-	25	n/a
Tradewind	\$ 23.25	\$/MWh	Wind	250.0	-	25	n/a
NextEra	\$ 12.19	\$/MWh	Wind + Solar	400.0	-	27	no
NextEra	\$ 12.45	\$/MWh	Wind + Solar	500.0	-	27	no
NextEra	\$ 19.96	\$/MWh	Wind + Solar	801.0	-	27	no
Pattern Development	\$ 23.85	\$/MWh	Wind + Solar	460.0	-	20	no
Pattern Development	\$ 29.88	\$/MWh	Wind + Solar	450.0	-	35	n/a
NextEra	\$ 16.22	\$/MWh	Wind + Solar + Storage	699.0	140.0	25	no
NextEra	\$ 18.65	\$/MWh	Wind + Solar + Storage	1,049.0	240.0	25	no
NextEra	\$ 19.02	\$/MWh	Wind + Solar + Storage	500.0	140.0	25	no
NextEra	\$ 25.54	\$/MWh	Wind + Solar + Storage	1,049.0	240.0	25	no
Pattern Development	\$ 22.82	\$/MWh	Wind + Solar + Storage	450.0	50.0	20	no
Pattern Development	\$ 30.41	\$/MWh	Wind + Solar + Storage	450.0	50.0	20	no
Pattern Development	\$ 34.22	\$/MWh	Wind + Solar + Storage	450.0	50.0	20	no
Pattern Development	\$ 43.67	\$/MWh	Wind + Solar + Storage	450.0	100.0	25/30/20	n/a
NextEra	\$ 13.87	\$/MWh	Wind + Storage	499.0	90.0	25	no
NextEra	\$ 13.97	\$/MWh	Wind + Storage	499.3	90.0	25	no
NextEra	\$ 16.34	\$/MWh	Wind + Storage	300.3	90.0	25	no
NextEra	\$ 16.80	\$/MWh	Wind + Storage	301.4	90.0	25	no
NextEra	\$ 17.47	\$/MWh	Wind + Storage	499.1	90.0	25	no
NextEra	\$ 21.02	\$/MWh	Wind + Storage	300.3	90.0	25	no
NextEra	\$ 21.23	\$/MWh	Wind + Storage	799.4	90.0	25	no
NextEra	\$ 24.40	\$/MWh	Wind + Storage	600.8	90.0	25	no
NextEra	\$ 25.08	\$/MWh	Wind + Storage	799.4	90.0	25	no
NextEra	\$ 28.12	\$/MWh	Wind + Storage	600.8	90.0	25	no
Tradewind	\$ 23.65	\$/MWh	Wind + Storage	500.0	100.0	20	no



The Office of
Minnesota Attorney General Keith Ellison
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August 27, 2021

Mr. Will Seuffert
Executive Secretary
Minnesota Public Utilities Commission
121 7th Place East, Suite 350
St. Paul, MN 55101

Re: *In the Matter of Xcel Energy's 2020–2034 Upper Midwest Integrated Resource Plan*
MPUC Docket No. E-002/RP-19-368

Dear Mr. Seuffert:

Enclosed and e-filed in the above-referenced matter please find the Minnesota Office of the Attorney General—Residential Utilities Division's Response to Xcel's Motion to Strike.

By copy of this letter all parties have been served. A Certificate of Service is also enclosed.

Sincerely,

/s/ **Max Kieley**

MAX KIELEY

Assistant Attorney General

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(651) 296-9663 (Fax)

max.kieley@ag.state.mn.us

CERTIFICATE OF SERVICE

Re: *In the Matter of Xcel Energy's 2020–2034 Upper Midwest Integrated Resource Plan*
MPUC Docket No. E-002/RP-19-368

I, JUDY SIGAL, hereby certify that on the 27th day of August, 2021, I e-filed with eDockets *the Minnesota Office of the Attorney General—Residential Utilities Division's Response to Xcel's Motion to Strike* and served a true and correct copy of the same upon all parties listed on the attached service list by e-mail, electronic submission, and/or United States Mail with postage prepaid, and deposited the same in a U.S. Post Office mail receptacle in the City of St. Paul, Minnesota.

/s/ Judy Sigal

JUDY SIGAL

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Generic Notice	Commerce Attorneys	commerce.attorneys@ag.state.mn.us	Office of the Attorney General-DOC	445 Minnesota Street Suite 1400 St. Paul, MN 55101	Electronic Service	Yes	OFF_SL_19-368_19-368_Official
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