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## SENATE STATE OF MINNESOTA NINETY-FIRST SESSION

A bill for an act

S.F. No. 100

(SENATE AUTHORS: OSMEK, Goggin, Marty, Dibble and Rosen)

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1.23

DATE 01/14/2019 76 Introduction and first reading Referred to Energy and Utilities Finance and Policy 01/17/2019 92a Comm report: To pass as amended and re-refer to Finance Comm report: To pass as amended Second reading Second reading Comm report: To pass as amended Second reading Second re

Second reading Author added Rosen

relating to energy; establishing criteria for utility cost recovery of energy storage 1 2 system pilot projects; requiring investor-owned utilities to include in integrated 1.3 resource plans an assessment of energy storage systems; requiring a cost-benefit 1.4 analysis of energy storage systems; appropriating money; requiring a report; 1.5 amending Minnesota Statutes 2018, sections 216B.16, by adding a subdivision; 1.6 216B.2422, subdivision 1, by adding a subdivision. 1.7 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF MINNESOTA: 1.8 Section 1. Minnesota Statutes 2018, section 216B.16, is amended by adding a subdivision 19 to read: 1.10 Subd. 7e. Energy storage system pilot projects. (a) A public utility may petition the 1.11 commission under this section to recover costs associated with the implementation of an 1.12 1.13 energy storage system pilot project. As part of the petition, the public utility must submit a report to the commission containing, at a minimum, the following information regarding 1.14 1.15 the proposed energy storage system pilot project: (1) the storage technology utilized; 1.16 (2) the energy storage capacity and the duration of output at that capacity; 1.17 (3) the proposed location; 1.18 1.19 (4) the purchase and installation costs; (5) how the project will interact with existing distributed generation resources on the 1.20 1.21 utility's grid; and (6) the goals the project proposes to achieve, which may include controlling frequency 1.22

or voltage, mitigating transmission congestion, providing emergency power supplies during

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of electric power and serving, either directly or indirectly, the needs of 10,000 retail

(c) "Renewable energy" means electricity generated through use of any of the following

customers in Minnesota. Utility does not include federal power agencies.

Sec. 2. 2

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resources:

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Sec. 2. 3

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4.1	(ii) defe	rs the need or substitu	tes for an invest	ment in electric gene	ration, transmission,	
4.2	or distribution assets;					
4.3	(iii) imp	roves the reliable oper	ation of the elect	trical transmission or	distribution systems,	
4.4	while ensur	ing transmission or di	stribution needs	are not created; or		
4.5	(iv) low	ers customer costs by	storing energy v	when the cost of gene	rating or purchasing	
4.6	it is low and	d delivering it to custo	omers when thos	e costs are high.		
4.7	<b>EFFEC</b>	TIVE DATE. This se	ection is effectiv	e the day following f	inal enactment.	
4.0	Saa 2 Mi	innagata Statutas 2019	2 goation 216D (	2422 is amonded by	adding a guhdiyigian	
4.8 4.9	to read:	innesota Statutes 2018	s, section 210b.2	2422, is afficilited by a	adding a subdivision	
				(	. 1, 61	
4.10	' <u>-</u>	Energy storage syst				
4.11	'	an under subdivision 2				
4.12	systems tha	t analyzes how the de	ployment of ene	ergy storage systems	contributes to:	
4.13	<u>(1) meet</u>	ting identified generat	ion and capacity	needs; and		
4.14	(2) eval	uating ancillary servic	ees.			
4.15	<u>(b) The</u>	assessment must emp	loy appropriate	modeling methods to	enable the analysis	
4.16	required in	paragraph (a).				
4.17	<b>EFFEC</b>	TIVE DATE. This se	ection is effectiv	e the day following f	inal enactment.	
4.18	Sec. 4. RE	CPORT; COST-BENI	EFIT ANALYSI	S OF ENERGY STO	ORAGE SYSTEMS.	
4.19	(a) The c	commissioner of comm	nerce must contra	act with an independe	nt consultant selected	
4.20		equest for proposal pro		-		
4.21		energy storage system	-			
4.22	subdivision	1, in Minnesota. The s	study may also ir	nclude scenarios exam	nining energy storage	
4.23	systems tha	t are not capable of be	ing controlled by	y a utility. The commi	ssioner must engage	
4.24	a broad gro	up of Minnesota stake	holders, includi	ng electric utilities ar	nd others, to develop	
4.25	and provide	e information for the re	eport. The study	must:		
4.26	(1) iden	tify and measure the d	lifferent potentia	al costs and savings p	roduced by energy	
4.27	storage syst	em deployment, inclu	ding but not lin	nited to:		
4.28	(i) gener	ration, transmission, a	nd distribution	facilities asset deferra	al or substitution;	
4.29	(ii) impa	acts on ancillary servi	ces costs;			

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(iii) impacts on transmission and distribution congestion;

5.1	(iv) impacts on peak power costs;
5.2	(v) impacts on emergency power supplies during outages;
5.3	(vi) impacts on curtailment of renewable energy generators; and
5.4	(vii) reduced greenhouse gas emissions;
5.5	(2) analyze and estimate the:
5.6	(i) costs and savings to customers that deploy energy storage systems;
5.7	(ii) impact on the utility's ability to integrate renewable resources;
5.8	(iii) impact on grid reliability and power quality; and
5.9	(iv) effect on retail electric rates over the useful life of a given energy storage system
5.10	compared to providing the same services using other facilities or resources;
5.11	(3) consider the findings of analysis conducted by the Midcontinent Independent System
5.12	Operator on energy storage capacity accreditation and participation in regional energy
5.13	markets, including updates of the analysis; and
5.14	(4) include case studies of existing energy storage applications currently providing the
5.15	benefits described in clauses (1) and (2).
5.16	(b) By December 31, 2019, the commissioner of commerce must submit the study to
5.17	the chairs and ranking minority members of the senate and house of representatives
5.18	committees with jurisdiction over energy policy and finance.
5.19	<b>EFFECTIVE DATE.</b> This section is effective the day following final enactment.
5.20	Sec. 5. APPROPRIATION.
5.21	\$150,000 in fiscal year 2020 is appropriated from the renewable development account
5.22	in the special revenue fund established in Minnesota Statutes, section 116C.779, subdivision
5.23	1, to the commissioner of commerce, to conduct the energy storage systems cost-benefit
5 24	analysis required under section 4

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