Michigan Office of Administrative Hearings and Rules

MOAHR-Rules@michigan.gov

AGENCY REPORT TO THE JOINT COMMITEE ON ADMNINISTRATIVE RULES (JCAR)

1. Agency Information

Agency name:

Licensing and Regulatory Affairs

Division/Bureau/Office:

Public Service Commission

Name of person completing this form:

Lisa Gold

Phone number of person completing this form:

517-420-2291

E-mail of person completing this form:

goldl@michigan.gov

Name of Department Regulatory Affairs Officer reviewing this form:

Elizabeth Arasim

2. Rule Set Information

MOAHR assigned rule set number:

2020-96 LR

Title of proposed rule set:

Interconnection and Distributed Generation Standards

3. Purpose for the proposed rules and background:

Section 173 of Public Act 295 of 2008, MCL 460.1173(1) (Act 295), authorized the Commission to promulgate administrative rules governing net metering standards. In 2009, the Commission formally adopted administrative rules governing electric interconnection and net metering. See, Mich Admin Code, R 460.601a-460.656. Those rules focused primarily on small electric generators by dividing them into five categories; the first four categories apply to projects up to 2 megawatts (MWs) and the fifth category applies to projects greater than 2 MWs. In the December 20, 2012 order in Case No. U-15919, the Commission adopted procedures for interconnection of smaller projects (Categories 1 and 2), but has not yet adopted procedures governing the interconnection of larger projects (Categories 3 through 5). Those net metering rules are now outdated and need to be rescinded. A separate RFR has been submitted for that.

There have been significant changes in Michigan's energy landscape driven by rapidly advancing renewable energy technology, including solar, wind, and battery storage. There have also been changes in Michigan's energy laws with the passage of Public Acts 341 and 342 of 2016, which, among other things, amended Act 295. MCL 460.1173(1) now authorizes the Commission to promulgate rules governing distributed generation (DG). See also, MCL 460.1173(6)(b). Likewise, the Institute of Electrical and Electronics Engineers (IEEE) recently updated its technical standards for interconnection, the IEEE Standard for Interconnection and Interoperability of Distributed Energy Resources with Associated Electric Power Systems Interfaces (IEEE 1547-2018), which has prompted other states to revise their own interconnection rules and standards. Moreover, the Federal Energy Regulatory Commission (FERC) has recently addressed the integration of energy storage facilities in its Order 841 issued on February 15, 2018, which directs regional transmission organizations and independent system operators to establish market rules for energy storage facilities to participate in wholesale energy, capacity, and ancillary services markets. Order 841, 162 FERC ¶ 61, 127; 18 CFR 35.28 (2018).

Finally, in the October 27, 2015 order in Case No. U-17973, the Commission determined that it needed to update the standards applicable to utilities and qualifying facilities (QF) operating pursuant to the Public Utility Regulatory Policies Act of 1978, 16 USC 2601 et seq., 16 USC 824a-3 (PURPA). PURPA was enacted by Congress in 1978 to increase energy conservation and energy efficiency by allowing for renewable resources to interconnect with and sell their generation to utilities. PURPA is largely carried out by the states. 16 USC 2621(b)(2); 16 USC 824a-3(f). For example, the rates paid to QFs are set by the Commission. 16 USC 824a-3; MCL 460.6j(13)(b).

Thus, both PURPA and the new DG law (as well as the legacy net metering law) concern the topic of interconnection with the energy grid. Industry standards for interconnection have been updated since the 2009. The Commission's current rules are outdated and need to be replaced. The Commission expects that the new rules will decrease the time required to interconnect a distributed energy project into the electric distribution system. Larger generators tend to be interconnecting with the utility under PURPA requirements. In this rulemaking, the Commission will promulgate new rules addressing interconnection requirements for generators of all sizes, DG standards, and legacy net metering, to address the concerns described herein. Simultaneously, the Commission is rescinding the 2009 interconnection and net metering rules.

This proposed ruleset was previously included in 2019-087, which was voided on March 10, 2020.

4. Summary of proposed rules:

The Interconnection and Distributed Generation Standards are rules that detail how projects owned by customers, developers, and in some situations, the utility, connect to the utility distribution system. These rules provide a standardized process and schedule so that interconnections can be accommodated in an orderly and timely manner. The rules also ensure that interconnections are done reliably and safely, in order to protect workers, utility and third-party owned equipment, and the public. The Interconnection and Distributed Generation Standards are an update to the Electric Interconnection and Net Metering Standards necessitated by advances in distributed energy resource technology and an increase in distributed generation penetration on the distribution systems in Michigan. The Interconnection and Distributed Generation Standards are promulgated pursuant to the same authority as, and replace, the Electric Interconnection and Net Metering Standards, which will be rescinded concurrently with the approval of these rules.

5. List names of newspapers in which the notice of public hearing was published and publication dates:

Two public hearings were held in this matter.

The Oakland Press October 6, 2021

The Mining Journal October 6, 2021

The Grand Rapids Press October 6, 2021

The Oakland Press June 11, 2022

The Mining Journal June 11, 2022

The Grand Rapids Press June 12, 2022

6. Date of publication of rules and notice of public hearing in Michigan Register:

6/15/2022

7. Date, time, and location of public hearing:

6/22/2022 09:00 AM at Lake Michigan Hearing Room, 7109 W. Saginaw Hwy., Lansing MI 48917

8. Provide the link the agency used to post the regulatory impact statement and cost-benefit analysis on its website:

https://ARS.apps.lara.state.mi.us/Transaction/RFRTransaction?TransactionID=1222

9. List of the name and title of agency representative(s) who attended the public hearing:

Benjamin Holwerda, Assistant Attorney General, on behalf of Michigan Public Service Commission (MPSC or Commission) Staff, and Julie Baldwin, Division Director at the MPSC, on October 20, 2021.

Monica Stephens, Assistant Attorney General, on behalf of the MPSC Staff, and Julie Baldwin, Division Director at the MPSC, on June 22, 2022.

10. Persons submitting comments of support:

No one testified at the first public hearing. All written comments suggested revisions.

Matthew Paul testified at the second public hearing on behalf of DTE Energy and suggested revisions. All written comments suggested revisions.

11. Persons submitting comments of opposition:

No one testified at the first public hearing. All written comments suggested revisions.

Matthew Paul testified at the second public hearing on behalf of DTE Energy and suggested revisions. All written comments suggested revisions.

12. Persons submitting other comments:

All written comments suggested revisions. Written comments were submitted by Adam Schaller, Marco Menzes, Michigan Energy Innovation Business Council (MEIBC), Association of Businesses Advocating Tariff Equity (ABATE), Michigan Electric and Gas Association (MEGA), DTE Electric Company (DTE Electric), Michigan Biomass, Consumers Energy Company (Consumers), Ford Motor Company (FMC), Coalition of Community Solar Access (CCSA), Sunrun, Inc., IBEW Local 17, Michigan Electric Cooperative Association, and Vote Solar, the Ecology Center, and the Environmental Law and Policy Center (together the Clean Energy Organizations or CEOs). Some commenters submitted redlined versions of the rules with their comments, but most did not.

13. Identify any changes made to the proposed rules based on comments received during the public comment period:

	Name & Organization	Comments made at public hearing	Written Comments	Agency Rationale for Rule Change	Rule number & citation
	Organization	public hearing	Comments	and Description of Change(s) Made	changed
1	ABATE		Clarify whether the cost allocation info in Rule 970 applies to both installation and operations and maintenance (O&M) costs.	PSC agrees that rule should show that O&M costs are also considered in cost allocation.	460.970
2	CCSA		Concerned with only having one batch per year Only put applications that fail an electrical independence test in batch Levels should be larger.	PSC agrees that the batch process is unnecessary and removed it.	460.956, 460.954

2	Congumana	Concerns vy/myl-	DCC agraca that	460.020
3	Consumers	Concerns w/rule	PSC agrees that	460.920, 460.1001
		964 which limits	days should be clarified as	460.1001,
		the		460.990,
		interconnection	calendar days.	460.964,
		costs to 110% of	PSC agrees that	460.988,
		the estimate.	actual	460.1006.
		They also point	interconnection	
		out the rule does	(IX) costs and	
		not have a	timeline should be	
		timeline for the	clarified.	
		applicant to	PSC agrees that	
		respond.	procurement of the	
		_	right-of-way by	
		Rule 988 should	the applicant	
		be changed to	should be made	
		make the utility	clear.	
		responsible for	PSC agrees that	
		providing	distributed	
		easements or	generation (DG)	
		right of way	program and IX	
		115111 OI way	program and 1X	
		Recommends that		
		the	should be	
		interconnection	reviewed in	
		submittal and	sequential order,	
		review process be	not in parallel.	
		incorporated into		
		the material		
		modification		
		request		
		Proposes that DG		
		program review		
		happen after the		
		interconnection		
		application		
		review instead of		
		in parallel.		
		Clarify "days' vs		
		"business days"		
		throughout		
		ruleset.		
4	DTE Electric	Rules will result	PSC agrees that	460.901a,
		in confusion,	utility holidays	460.920,
		errors,	should be	460.991,
		ĺ		<i></i>

misunderstanding	excluded from the	460.902,
s, and	business day. PSC	460.911,
disagreement and	agrees that	460.928,
impose	definitions should	460.930,
unnecessarily	be updated to	460.934,
•	reflect latest	460.934,
complex and	version of UL	· · · · · · · · · · · · · · · · · · ·
prescriptive		460.946,
processes	1741. PSC agrees	460.942,
г 11	that concerns	460.964,
Fee caps could	about retroactive	460.966,
result in a taking	application should	460.984,
	be addressed. PSC	460.1001,
Utility holidays	agrees to modify	460.1004,
should be	the fees. PSC	460.1020,
excluded from	agrees that the	460.914,
the business day.	preapplication	460.916,
Definitions	form should	460.918.
should be	ascertain whether	
updated to reflect	the distributed	
latest version of	energy resource	
UL 1741.	(DER) is certified.	
Concerns about	PSC agrees that	
retroactive	the site owner's	
application	contact	
should be	information is	
addressed. The	important. PSC	
preapplication	agrees that some	
form should	of the proposed	
ascertain whether	tracks are	
the distributed	unnecessary and	
energy resource	deletes them. PSC	
(DER) is	agrees that 10	
certified. The site	business days	
owner's contact	should be changed	
information	to 20 business	
should be	days and agrees to	
included. Some	other	
of the proposed	clarifications.	
tracks are	PSC agrees that	
	applicant should	
unnecessary. 10 business days	proceed only	
should be	1	
	pursuant to an executed IX	
changed to 20		
business days.	agreement. PSC	
Applicant should	agrees that legacy	
proceed only	net metering	
1	1	I

		pursuant to an	customers have a	
		executed IX	certain time	
		agreement.	period.	
		Legacy net	r	
		metering		
		customers have		
		only a certain		
		time period.		
		Some rules		
		should be deleted		
		because they		
		appear to have		
		retroactive		
		application which		
		is unlawful.		
5	FMC	Develop a fast	PSC agrees that	460.940,
	1 1/10	track process for	level 1 and 2	460.944
		EVs seeking	should be	700.7 77
		Laval 1 am 2 II		
			processed through	
		simplified	the fast track.	
		process if		
		additional study		
		is needed.		

6	MEGA	עו	ue to smaller	PSC agrees to	460.908,
U	WILGA		affs, want 30	delete the rule on	460.911,
			istead of 10 days		460.926,
			o for	agrees to address	460.928,
			opplications and	•	460.956,
		1 *		potential retroactive	
			nspections or in		460.901b,
			ne alternative,	application of the	460.964,
				•	460.966,
		1 ¹¹	rules	to fee changes.	460.920,
		S		PSC agrees to	460.986,
			ome members	remove the batch	460.908,
			se a progressive	process. PSC	460.918,
			-level	agrees to clarify	460.952,
			•	modifications.	460.960.
			rocess instead of	_	
			hat is proposed	increase the	
		l 1n	the rules	inspection time for	
			. 1.	certain projects.	
			imelines are	PSC agrees to	
			ery aggressive	modify insurance	
			or smaller	requirements for	
		ut	tilities	certain levels.	
			1 . 1 1	PSC agrees to	
			lso includes a	create a longer	
			st of concerns	timeline for the	
			rith many rules,	smaller utilities.	
			ncluding rule on		
			xperts is		
			nnecessary, rules nould not be		
			etroactive, fees		
			nould be		
			nodified, batch		
			rocess is		
		_			
			nnecessary, nodification		
			efinition is		
			nclear, insurance		
			eqts are		
			verstated.		
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1					

7	Sunrun	Need rules to	PSC agrees to add	460.901a,
		address energy	rules addressing	460.901b,
		storage systems	ESS, including	460.980,
		(ESS).	several new	460.946,
		(255).	definitions,	460.1001.
		Incorporate use	because ESS has	100.1001.
		of certified power		
		control systems	PSC agrees to	
		to limit export	update certain	
		to mint export	definitions to	
		Incorporate	reflect the latest	
		inverter power	version of	
		control functions	referenced	
		to enable	materials. PSC	
		customer savings	agrees that utility	
		on	shall consider	
		interconnection	100% of	
		costs	applicable loading	
		III. 1741 E 14.	and only the	
		UL 1741 Edition	proposed DER	
		3 was released on	export capacity.	
		9/28/2021		
		III 1741 CA		
		UL 1741 SA		
		inverters can be		
		set with a		
		constant lagging		
		power factor to		
		limit voltage rise		
		and upgrades		
		G '1 '1'		
		Consider adding		
		definitions to		
		address ESS.		

MEIBC second round Informal mediation should include a 10 day timeline. A party should not be required to participate in informal mediation in order to begin formal mediation in order to pay more than \$50 total. Informal mediation. It should be made clear why the public interconnection list has not been updated. Informal mediation in order to begin formal mediation. It should be clear than \$50 total. It should be made clear why the public interconnection list has not been updated. It should be made clear why the public interconnection list has not been updated. It should be made clear why the public interconnection list has not been updated.
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interconnection list has not been
updated.

9	Consumers	Certain	PSC agrees that	460.942,
	second round	unnecessary	the noted language	460.950
		language should	is unnecessary and	
		be deleted from	deletes it and	
		the non-export	agrees that the rule	
		track review and	should include a	
		the rule should	description of	
		include a	what happens	
		description of	when an	
		what happens	application needs	
		when an	further study.	
		application needs		
		further study.	The PSC agrees	
		J	that additional	
		Additional review		
		screens should be		
		allowed.	to give the utilities	
			more flexibility.	
10	MEIBC	 Rules must spell	PSC agrees that	460.901b,
		out how storage	material	460.982,
		will be treated	modification	460.911,
		and evaluated	should be	460.920,
		during the	clarified. PSC	460.926,
		interconnection	agrees to clarify	460.928,
		screening and	the path forward	460.932,
		study process.	for DG customers.	460.936,
			PSC agrees that	460.938,
		Power-limited	the ability to	460.946,
		export should be	participate in the	460.950,
		available and	IX procedure	460.954,
		pointed out that	proceedings	460.956,
		FERC Order 845	should be	460.958,
		addresses this	clarified. PSC	460.964,
		issue.	agrees that the fee	460.980,
			caps should be	460.988,
		No required re-	clarified. PSC	460.1001
		application for	agrees that the	460.1008
		legacy NM/DG	preapplication	460.918
		program	processing time	460.952,
		customers to add	should be reduced.	460.960
		storage.	PSC agrees that	
			the IX list should	
		Speed up batch	be made public	
		processing time.	and agrees to other	
			clarifications. PSC	
		Clarify definition	agrees that certain	
I	l l	1	I	

1 1	T		
	of material	additional screens	
	modification	should not be	
		allowed. PSC	
	Don't limit the	agrees to the	
	ability of the	removal of certain	
	applicant to	tracks and the	
	reduce the	batch process.	
	capacity of the	PSC agrees that	
	DER to only 20%	the rules should	
	·	address energy	
	Concerns about	storage systems	
	stakeholder	(ESS). PSC	
	engagement and	agrees that	
	commission	ambiguous terms	
	approval for	should be deleted.	
	interconnection	Same right of way	
	procedures phase	issue as above.	
	Concerns about		
	fee amounts and		
	waivers from fee		
	caps		
	1		
	Would like to		
	shorten time		
	period for pre-		
	app report from		
	25 business days		
	to 15 business		
	days		
	Clarify easements		
	and right of way		
	rule		
	DG program		
	requirement that		
	an energy storage		
	device does not		
	export to the grid		
	should be		
	removed.		
	Ambiguous terms		
	should be deleted		
	from Rule 982		
	regarding		
			ļ

	modification of
DTC 1	IX applications.
DTE second	Utility should not PSC finds that all 460.901a,
round	have to apply to of these suggested 460.901b,
	interconnect a revisions are 460.920,
	substation energy reasonable 460.930,
	storage backup because they will 460.942,
	device. The improve the rules 460.944,
	definitions of and agrees to all of 460.946,
	'aggregate the following: 460.950,
	capacity', 460.960,
	'generating Utility should not 460.962,
	capacity', and have to apply to 460.964,
	'ongoing interconnect a 460.966,
	operating substation energy 460.968,
	capacity' are not storage backup 460.980,
	needed. The device. The 460.988
	definition of definitions of 460.1026
	'certified' should 'aggregate
	be updated. The capacity',
	definition of 'generating
	'commissioning capacity', and
	test' should be 'ongoing operating
	clarified. The capacity' are not
	definition of needed. The
	'inadvertent definition of
	export' should be 'certified' should
	updated. The be updated. The
	definition of definition of
	'interconnection 'commissioning
	agreement' needs test' should be
	timelines as clarified. The
	estimates and definition of
	needs controls, 'inadvertent
	settings and export' should be
	amendments. updated. The
	The definition of definition of
	'material 'interconnection
	modification' agreement' needs
	should be timelines as
	clarified. The estimates and
	following needs controls,
	comments all settings and refer to amendments. The
	definitions: definition of
1	'Nameplate 'material

capacity' is not	modification'	
needed and	should be	
'nameplate rating	clarified. The	
should be	following	
updated. 'Power	comments all refer	
control system'	to definitions:	
should be	'Nameplate	
updated.	capacity' is not	
'Reasonable	needed and	
efforts' is not		
needed.	'nameplate rating	
needed.	should be updated. 'Power control	
The annual and C		
The number of	system' should be	
days for filing	updated.	
interconnection	'Reasonable	
procedures	efforts' is not	
should be	needed.	
extended.	TTI 1 C	
Projects that want	The number of	
to interconnect	days for filing	
with the 4.8kV	interconnection	
system should	procedures should	
understand the	be extended.	
technical	Projects that want	
limitations.	to interconnect	
	with the 4.8kV	
Direct current kW	system should	
and information	understand the	
about the inverter	technical	
system design	limitations.	
should be added		
to the pre-	Direct current kW	
application report	and information	
form.	about the inverter	
	system design	
It should be clear	should be added to	
that DERs that	the pre-application	
will not inject	report form.	
energy can be		
evaluated under	It should be clear	
the non-export	that DERs that	
track. It should	will not inject	
be clear that	energy can be	
utilities need only	evaluated under	
provide	the non-export	
reasonable	track. It should be	

assistance.	clear that utilities
	need only provide
The fast track	reasonable
where	assistance.
interconnecting to	
the 4.8kV system	The fast track
should be limited	where
to 1 MWac. The	interconnecting to
energy storage	the 4.8kV system
device criteria for	should be limited
fast track should	to 1 MWac. The
be modified.	energy storage
	device criteria for
Utilities should	fast track should
be allowed to add	be modified.
additional	
screens.	Utilities should be
Applicable	allowed to add
loading should be	additional screens.
dealt with in	Applicable loading
more detail.	should be dealt
	with in more
Applicants should	detail.
be required to	
provide	Applicants should
reasonably	be required to
requested data.	provide reasonably
	requested data.
The utility should	
be able to put the	The utility should
impact study on	be able to put the
hold.	impact study on
	hold.
The facilities	
study agreement	The facilities
should be	study agreement
provided within	should be
10 days.	provided within 10
	days.
Paper mail should	
	Paper mail should
IX agreement.	be allowed for the
	IX agreement.
Construction	
11	Construction
milestones and	Construction

al	llowed to be	costs should be	
es	stimated. The	allowed to be	
ti	me for	estimated. The	
pı	roviding a level	time for providing	
_	and 5 IX	a level 4 and 5 IX	
aş	greement to the	agreement to the	
1 7	pplicant should	applicant should	
_	e extended and	be extended and	
ti	melines should	timelines should	
be	e estimated.	be estimated.	
L	anguage	Language	
	ddressing rights	addressing rights	
	nd obligations is	and obligations is	
	ot necessary.	not necessary.	
	Ž	•	
T	he timeframe	The timeframe for	
fc	or inspection and	inspection and	
te	esting should be	testing should be	
m	nutually agreed	mutually agreed	
aı	nd certain	and certain	
ac	ctivities should	activities should	
be	e contingent	be contingent	
uj	pon resolution	upon resolution of	
of	f preceding	preceding steps.	
st	teps.		
		Prior to parallel	
P	rior to parallel	operation the	
-	peration the	applicant should	
_	pplicant should	execute the IX	
ex	xecute the IX	agreement.	
aş	greement.		
		Utilities should be	
	Itilities should	allowed to propose	
b	e allowed to	alternatives to the	
	ropose	inadvertent export	
	lternatives to the		
	nadvertent	DERs rule in their	
	xport provisions	IX procedures.	
	f the DERs rule	ent statut	
	n their IX	The utilities	
p ₁	rocedures.	should not be	
	n ,.1.,.	required to acquire	
	he utilities	easements at the	
	hould not be	request of a	
	equired to	private entity.	
ac	cquire		
į			

	easements at the	
	request of a	
	*	
	private entity.	
	Timeframe in	
	Rule 920 should	
	be 120 days.	
	"Standard"	
	should be deleted	
	from level 1-3 IX	
	agreements.	

14.Date report completed:

1/12/2023