1	State of Arkansas	A D:11	
2	93rd General Assembly	A Bill	
3	Regular Session, 2021		SENATE BILL 675
4			
5	By: Senator G. Leding		
6	By: Representative Ennett		
7	,		
8		For An Act To Be Entitled	
9		BLISH THE CLEAN ELECTRICITY	
10	•	E ELECTRIC UTILITY COMPANIES	
11		REPORT CARBON INTENSITY; ANI	O FOR OTHER
12	PURPOSES.		
13			
14		Subtitle	
15 16	TO ECTADI	ISH THE CLEAN ELECTRICITY	
10 17		GACT; AND TO REQUIRE ELECTR	TC
17		COMPANIES TO CALCULATE AND R	
19	CARBON IN		ETORT
20	Olikbon III	ILMOITI.	
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22	BE IT ENACTED BY THE GENER.	AL ASSEMBLY OF THE STATE OF	ARKANSAS:
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24	SECTION 1. Arkansas	Code Title 8 is amended to	add an additional
25	chapter to read as follows	:	
26	-	Chapter 16	
27	CLE	CAN ELECTRICITY REPORTING AC	<u>T</u>
28			
29	8-16-101. Title.		
30	This chapter shall be	e known and may be cited as	the "Clean Electricity
31	Reporting Act".		
32			
33	8-16-102. Legislati	ve findings and purpose.	
34	(a) The General Ass	embly finds that:	
35	(1) There is	an increasing national empha	asis on reducing
36	electricity system emission	ns due to the harmful public	c health impacts of

T	criteria air poliutants and the climate forcing effects of greenhouse gas
2	emissions;
3	(2) Many electric utility companies are voluntarily announcing
4	their intentions to be emission-free by a target date; and
5	(3) A simple yet meaningful metric of electricity system
6	emissions will:
7	(A) Give recognition to an electric utility company as it
8	makes progress in providing clean electricity by working with customers,
9	vendors, and industry partners to promote strategies and technologies that
10	effectively reduce emissions; and
11	(B) Provide electricity customers and the public with
12	transparent and useful information about electricity system emissions that
13	$\underline{\text{will}}$ enable the customers and the public to make informed decisions and act
14	as partners with electric utility companies in the common goal of reducing
15	electricity system emissions.
16	(b) The purpose of this chapter is to avoid confusion and to
17	facilitate meaningful measurement standards and methods for comparing the
18	progress on reducing electricity system emissions by requiring all electric
19	utility companies to calculate and report on carbon intensity in an approved
20	and standardized manner.
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22	8-16-103. Definitions.
23	As used in this chapter:
24	(1) "Carbon dioxide equivalent" means a metric measure used to
25	compare the emissions of various greenhouse gases on the basis of global
26	warming potential by converting amounts of other gases to the equivalent
27	amount of carbon dioxide with the same global warming potential;
28	(2)(A) "Carbon intensity" means the amount of global warming
29	potential of gases emitted to produce a given amount of electrical power and
30	measured on an annual basis, including without limitation the direct
31	emissions and indirect emissions of the full energy chain of each generation
32	resource in the electric system portfolio.
33	(B) "Carbon intensity" includes the life cycle emissions
34	for all energy storage and load balancing generation used to meet electric
35	system reliability requirements;
36	(3)(A) "Criteria air pollutant" means one (1) of six (6) common

1	all pollucants decermined to be mazardous to numan mealth and regulated under	
2	the National Ambient Air Quality Standards.	
3	(B) "Criteria air pollutant" includes carbon monoxide,	
4	lead, nitrogen dioxide, ground-level ozone, sulfur dioxide, and particulate	
5	matter;	
6	(4) "Direct emissions" means the carbon intensity of emissions	
7	from operation and maintenance of an energy resource;	
8	(5) "Electric system portfolio" means the energy resources of an	
9	electric utility company, including in-state and out-of-state energy	
10	resources;	
11	(6)(A) "Greenhouse gas" means a gas that traps heat in the	
12	atmosphere and has a climate forcing effect.	
13	(B) "Greenhouse gas" includes carbon dioxide, methane,	
14	nitrous oxide, hydrofluorocarbons, perfluorocarbons, sulfur hexafluoride, and	
15	any other similar gas designated by the Arkansas Pollution Control and	
16	Ecology Commission as a "greenhouse gas";	
17	(7) "Greenhouse gas content calculation" means a calculation of	
18	the life cycle carbon dioxide equivalent emissions of an energy resource tha	
19	is expressed as carbon intensity;	
20	(8)(A) "Indirect emissions" means the carbon intensity of the	
21	full energy chain for an energy resource that is exclusive of the direct	
22	emissions from operation and maintenance.	
23	(B) "Indirect emissions" includes:	
24	(i) Mining;	
25	(ii) Processing and transportation of materials for	
26	<pre>energy resource equipment;</pre>	
27	(iii) Manufacturing, transportation, and	
28	installation of energy resource equipment;	
29	(iv) Decommissioning or disposal, or both, of energy	
30	resource equipment; and	
31	(v) Mining, processing, and transportation of	
32	combustion fuel; and	
33	(9) "Life cycle emissions" means the sum of direct emissions and	
34	indirect emissions for a given energy resource that is expressed as the	
35	energy resource's carbon intensity per unit of energy generated.	
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1	8-16-104. Carbon intensity reporting.
2	(a)(1) An electric utility company shall calculate and report on the
3	carbon intensity of its electric system portfolio in the manner established
4	by the Arkansas Pollution Control and Ecology Commission at the end of each
5	calendar year and for each projected year included in the most recent
6	resource planning of the electric utility company.
7	(2) The calculation required under subdivision (a)(1) of this
8	section shall include a:
9	(A) Life cycle greenhouse gas content calculation for each
10	type of energy resource in the electric utility company's electric system
11	portfolio; and
12	(B) Weighted average life cycle greenhouse gas content
13	calculation for the annual electricity production by the electric utility
14	company's electric system portfolio, which is the carbon intensity of the
15	electric system portfolio for a given year.
16	(3) The weighted average life cycle greenhouse gas content
17	calculation required under subdivision (a)(2)(B) of this section shall be
18	calculated as follows:
19	(A) The carbon intensity in grams carbon dioxide
20	equivalent per kilowatt hour (gCO $_2$ e/kWH) for each energy resource shall be
21	multiplied by the total annual electricity production of that energy resource
22	to obtain the total grams emitted; and
23	(B) The sum of emissions from all energy resources in the
24	electric utility company's electric system portfolio shall be divided by the
25	total annual electricity production to obtain the average electric system
26	portfolio carbon intensity in grams carbon dioxide equivalent per kilowatt
27	hour (gCO <sub>2</sub> e/kWH).
28	(b) Each electric utility company shall distribute the annual carbon
29	intensity data required under subsection (a) of this section to its customers
30	as soon as the annual carbon intensity data is available by either monthly
31	bills or other mailings to customers or by posting the annual carbon
32	intensity data on the electric utility company's website.
33	(c) An electric utility company shall provide the annual carbon
34	intensity data of the electric utility company to the commission.
35	(d) The commission shall:

(1) Require an electric utility company to use median values for

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1	Title cycle emissions of energy resources as reported by the united states
2	Department of Energy's National Renewable Energy Laboratory in its Life Cycle
3	Assessment Harmonization Project, as it existed on January 1, 2021;
4	(2) Monitor developments in life cycle emissions assessments;
5	<u>and</u>
6	(3) Instruct electric utility companies to use updated values in
7	carbon intensity calculations if more precise estimates become available.
8	(e)(1) An electric utility company may request permission from the
9	commission to use an energy resource carbon intensity value that differs from
10	the value required by the commission under subdivision (d)(1) of this
11	section.
12	(2) A request to use a different energy resource carbon
13	intensity value shall be accompanied by supporting data and calculations that
14	the commission shall review in either approving or denying the electric
15	utility company's request.
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17	8-16-105. Report.
18	(a) The Arkansas Pollution Control and Ecology Commission shall:
19	(1) Consolidate the annual carbon intensity data obtained under
20	§ 8-16-104 from all electric utility companies; and
21	(2) Issue a report that details the:
22	(A) Carbon intensity of the electric system portfolio of
23	each electric utility company; and
24	(B) Aggregate carbon intensity for the electric power
25	sector in this state.
26	(b) The report required under subsection (a) of this section shall
27	include a:
28	(1) Chart that details past and present electric power sector
29	carbon intensity figures; and
30	(2) Narrative that describes the benefits of tracking, reducing,
31	and eliminating the direct emissions and indirect emissions of the electric
32	power sector.
33	(c) The Arkansas Pollution Control and Ecology Commission shall
34	provide a copy of the report required under subsection (a) of this section to
35	the following:
36	(1) The General Assembly:

1	(2) The Arkansas Public Service Commission;
2	(3) The Department of Health;
3	(4) The Department of Commerce; and
4	(5) Each electric utility company operating in this state.
5	(d) The Arkansas Pollution Control and Ecology Commission shall
6	publish the report required under subsection (a) of this section by press
7	release, website posting, or other effective means for review by the general
8	public.
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10	8-16-106. Technical assistance.
11	The Arkansas Pollution Control and Ecology Commission and the Arkansas
12	Public Service Commission shall devise a consistent framework for calculating
13	and reporting the carbon intensity of an electric system portfolio by:
14	(1) Collaborating with subject matter experts on carbon
15	intensity; and
16	(2) Using the best available resources and data related to
17	calculating and reporting carbon intensity.
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