First Regular Session Seventy-fourth General Assembly STATE OF COLORADO

ENGROSSED

This Version Includes All Amendments Adopted on Second Reading in the House of Introduction

LLS NO. 23-0514.01 Jennifer Berman x3286

SENATE BILL 23-092

SENATE SPONSORSHIP

Simpson and Hansen,

HOUSE SPONSORSHIP

McCormick and Soper,

Senate Committees

House Committees

Agriculture & Natural Resources Appropriations

A BILL FOR AN ACT

101	CONCERNING OPPORTUNITIES FOR VOLUNTARY EMISSION REDUCTIONS
102	IN AGRICULTURE, AND, IN CONNECTION THEREWITH, MAKING AN
103	APPROPRIATION.

Bill Summary

(Note: This summary applies to this bill as introduced and does not reflect any amendments that may be subsequently adopted. If this bill passes third reading in the house of introduction, a bill summary that applies to the reengrossed version of this bill will be available at http://leg.colorado.gov.)

In support of the use of agrivoltaics, which is the integration of solar energy generation facilities with agricultural activities, **section 2** of the bill authorizes the agricultural drought and climate resilience office (office) to award grants for new or ongoing demonstration or research projects that demonstrate or study the use of agrivoltaics. On or before

October 1, 2023, the office is required to convene a stakeholder group to advise on whether the office should impose any operational requirements for agrivoltaic projects that apply for grants.

Section 4 authorizes the Colorado water conservation board (board) to finance a project to study the feasibility of using aquavoltaics, which are solar energy generation facilities placed over, or floating on, irrigation canals or reservoirs.

Section 1 requires the director of the division of parks and wildlife to consult on the impacts on wildlife of:

- Any research projects for which the office awards money to study the use of agrivoltaics; and
- The project that the board finances to study the feasibility of using aquavoltaics in the state.

Section 5 amends the statutory definition of "solar energy facility", used in determining the valuation of public utilities for property tax purposes, to include agrivoltaics and aquavoltaics.

Section 3 requires the commissioner of agriculture or the commissioner's designee (commissioner), in consultation with the Colorado energy office, the air quality control commission, and an institution of higher education with expertise in climate change mitigation, adaptation benefits, and other environmental benefits related to agricultural research, to examine greenhouse gas reduction and carbon sequestration opportunities in the agricultural sector, including the use of dry digesters and the potential for creating and offering a certified greenhouse gas offset program and credit instruments in the agricultural sector.

Section 3 requires the commissioner to submit a progress report on the study to the general assembly on or before October 1, 2024, and a final report, including any recommendations, on or before October 1, 2025.

Section 3 also authorizes the commissioner to adopt rules to implement the recommendations, but requires that any greenhouse gas offset program or other greenhouse gas reduction and carbon sequestration program or mechanism established in rule not mandate participation by agricultural producers.

- Be it enacted by the General Assembly of the State of Colorado:
- 2 **SECTION 1.** In Colorado Revised Statutes, 33-1-110, **add** (9) as
- 3 follows:

1

- 4 33-1-110. Duties of the director of the division habitat
- 5 partnership council, program, committee created duties. (9) THE

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1	DIRECTOR OR THE DIRECTOR'S DESIGNEE SHALL PROVIDE CONSULTATION
2	REGARDING THE IMPACTS OF THE FOLLOWING RESEARCH PROJECTS ON
3	WILDLIFE:
4	$(a) \ Research {\tt PROJECTS} \ {\tt FOR} \ {\tt WHICH} \ {\tt THE} \ {\tt AGRICULTURAL} \ {\tt DROUGHT}$
5	AND CLIMATE RESILIENCE OFFICE AWARDS MONEY TO STUDY THE USE OF
6	AGRIVOLTAICS PURSUANT TO SECTION 35-1-114; AND
7	$(b)\ A \text{Feasibility study through which the Colorado water}$
8	CONSERVATION BOARD, CREATED IN SECTION 37-60-102, STUDIES THE USE
9	OF AQUAVOLTAICS PURSUANT TO SECTION 37-60-115 (12).
10	SECTION 2. In Colorado Revised Statutes, 35-1-114, amend
11	(1)(c)(II), (2), and (3); and add (4) and (5) as follows:
12	35-1-114. Agricultural drought and climate resilience office -
13	creation - grants for agrivoltaic demonstration and research projects
14	- rules - definitions. (1) Legislative declaration. The general assembly
15	<u>hereby:</u>
16	(c) Declares that:
17	(II) The agricultural drought and climate resilience office can best
18	address and mitigate agricultural climate-related issues on a wide scale by
19	providing support to and assisting bona fide agricultural producers in
20	implementing practices that minimize the impacts of climate change.
21	(2) Office created. (a) (I) There is hereby created in the
22	department the agricultural drought and climate resilience office. referred
23	to in this section as the "office". The office may provide voluntary
24	technical assistance, nonregulatory programs, and incentives, INCLUDING
25	GRANTS, that increase the ability to anticipate, prepare for, mitigate, adapt
26	to, and respond to hazardous events, trends, or disturbances related to
27	drought or the climate.

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(II) IN AWARDING GRANTS IN ACCORDANCE WITH THE
COMMISSIONER'S RULES ADOPTED PURSUANT TO SUBSECTION (3) OF THIS
SECTION, THE OFFICE SHALL GIVE STRONG CONSIDERATION TO GRANT
APPLICATIONS THAT PROPOSE USING GRANT MONEY TO CONDUCT A NEW
OR ONGOING DEMONSTRATION OR RESEARCH PROJECT AS A MEANS TO
STUDY THE POTENTIAL, BENEFITS, AND TRADEOFFS OF AGRIVOLTAICS IN
THE STATE. ANY AGRIVOLTAIC STUDY AWARDED A GRANT PURSUANT TO
THIS SUBSECTION (2)(a)(II) MUST INCLUDE FINDINGS ON THE ADDITIONAL
COSTS, INCLUDING THE ADDITIONAL CAPITAL AND ONGOING MAINTENANCE
COSTS, FOR THE USE OF AGRIVOLTAICS AS COMPARED TO TRADITIONAL
PHOTOVOLTAICS. THE ADDITIONAL COSTS MUST BE QUANTIFIED ON BOTH
A DOLLAR-PER-MEGAWATT AND A DOLLAR-PER-MEGAWATT-HOUR BASIS.

- (b) The office shall advise the commissioner, the Colorado agricultural value-added development board created in section 35-75-203, other state agencies, and the governor on the impact to agriculture of drought and climate policies and programs.
 - (c) The commissioner shall appoint the head of the office.
- (3) (a) **Rules.** The commissioner may promulgate rules necessary for the administration of the office's assistance, programs, and incentives, including grants, CONSISTENT WITH THIS SUBSECTION (3). Before promulgating the rules, the commissioner shall convene a stakeholder group, including representatives of organizations whose membership consists of agricultural producers engaged in the production of the top ten agricultural commodities produced in Colorado, and members of the state conservation board created in section 35-70-103 (1)(a), AND REPRESENTATIVES OF THE SOLAR ENERGY DEVELOPMENT INDUSTRY. The stakeholder group shall advise the commissioner as to the needs of the

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1	agriculture industry to respond to and mitigate the impacts of climate
2	change on agricultural <u>production For</u> the purpose of this section, "bona
3	fide agricultural producer" means an agricultural producer that receives
4	a majority of the producer's annual income from agriculture, an
5	agricultural producer that spends more than one thousand forty hours per
6	year engaged in agricultural production, or a Colorado business that
7	processes <u>agricultural products</u> AND SOLUTIONS FROM THE SOLAR ENERGY
8	DEVELOPMENT INDUSTRY ON PROVIDING FEASIBLE SOLUTIONS FOR
9	PRODUCING ELECTRICITY ON AGRICULTURAL LANDS WHILE CONTRIBUTING
10	ECOLOGICAL AND AGRICULTURAL BENEFITS.
11	(b) Assistance, programs, and incentives. (I) Except for a
12	program, ASSISTANCE, INCENTIVE, or support administered by the office
13	to address immediate needs as a result of disaster, including wildfire and
14	drought, or a program that was in existence on January 1, 2021,
15	(a) a program, ASSISTANCE, INCENTIVE, OR SUPPORT administered
16	by the office must be designed to benefit bona fide agricultural producers
17	actively engaged in agriculture INCLUDE NEW OR ONGOING
18	DEMONSTRATION OR RESEARCH PROJECTS TO DEMONSTRATE OR STUDY
19	THE USE OF AGRIVOLTAICS TO:
20	$(A) \ Help \ prepare \ for \ and \ mitigate \ the \ impacts \ that \ climate$
21	CHANGE OR DROUGHT HAVE ON AGRICULTURE;
22	(B) REDUCE ENERGY COSTS IN AGRICULTURE;
23	(C) IMPROVE THE ECONOMIC RESILIENCE OF AGRICULTURAL
24	PRODUCERS;
25	(D) MINIMIZE NEGATIVE ENVIRONMENTAL IMPACTS OF
26	PHOTOVOLTAIC ENERGY PRODUCTION FACILITIES ON SOIL HEALTH, NATIVE
27	VEGETATION, STATE AND FEDERAL LISTED SPECIES, WILDLIFE MIGRATION

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1	CORRIDORS, AND THE SPECIES, HABITATS, AND ECOSYSTEMS THAT ARE OF
2	THE GREATEST CONSERVATION NEED; AND
3	(E) Provide other statewide environmental benefits, as
4	IDENTIFIED BY THE OFFICE.
5	(II) Grants awarded by the office must pay for implementation of
6	practices to address and mitigate the impacts of climate change or drought
7	ON AGRICULTURE or to provide direct adaptation support for impacted
8	agricultural communities, including mental health resources, conflict
9	resolution assistance, and risk-management guidance. A grant award may
10	pay no more than five percent of administrative expenses incurred by a
11	bona fide AN agricultural producer to implement the practices.
12	(b) (III) The department shall, at least thirty days before opening
13	the grant application process, make available, on its website, information
14	related to the grant program available to bone <u>fide</u> agricultural producers.
15	(e) (IV) A grant authorized pursuant to this section must receive
16	final approval by the commission before a final award can be issued. and
17	(d) (V) The department shall post on its website all applications
18	for grant awards. Within fifteen days after awarding a grant, the
19	department shall post on its website the name of the individual or entity
20	receiving a grant, the amount of the grant awarded, the project or projects
21	to be funded by the grant, and the duration of the grant award.
22	
23	(4) Task force. (a) On or before September 1, 2023, the
24	OFFICE SHALL CONVENE AN AGRIVOLTAICS TASK FORCE TO CONDUCT A
25	STUDY IN CONSULTATION WITH THE DEPARTMENT, THE COLORADO
26	ENERGY OFFICE CREATED IN SECTION 24-38.5-101 (1), AND THE DIVISION
27	OF PARKS AND WILDLIFE IN THE DEPARTMENT OF NATURAL RESOURCES

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1	<u>CREATED IN SECTION 33-9-104(1) TO EVALUATE THE OPPORTUNITIES AND</u>
2	CHALLENGES ASSOCIATED WITH AGRIVOLTAICS IN THE STATE, INCLUDING:
3	(I) The technical, operational, environmental, or
4	FINANCIAL BARRIERS TO AN EXPANSION OF THE ADOPTION OF
5	AGRIVOLTAICS IN THE STATE; AND
6	(II) POTENTIAL STATE-LEVEL POLICIES AND PROGRAMS TO
7	MINIMIZE THE BARRIERS.
8	(b) The task force must include one or more
9	REPRESENTATIVES OF EACH OF THE FOLLOWING:
10	(I) AGRICULTURAL PRODUCERS AND AGRICULTURAL
11	ASSOCIATIONS;
12	(II) Utilities;
13	(III) DEVELOPERS, OWNERS, OPERATORS, OR OTHER BUSINESSES
14	CRITICAL TO THE CREATION OR MANAGEMENT OF SOLAR ENERGY
15	FACILITIES;
16	(IV) A RESEARCH INSTITUTION OR NATIONAL LAB, LOCATED IN THE
17	STATE, THAT HAS AGRIVOLTAIC EXPERIENCE;
18	(V) ENVIRONMENTAL ADVOCACY ORGANIZATIONS IN THE STATE:
19	<u>AND</u>
20	(VI) INDEPENDENT POWER PRODUCERS.
21	(c) On or before February 15, 2024, the task force shall
22	PRESENT THE RESULTS OF THE STUDY, INCLUDING ANY
23	RECOMMENDATIONS FOR LEGISLATION, TO THE JOINT COMMITTEE OF THE
24	HOUSE OF REPRESENTATIVES AGRICULTURE, WATER, AND NATURAL
25	RESOURCES COMMITTEE AND THE SENATE AGRICULTURE AND NATURAL
26	RESOURCES COMMITTEE, OR THEIR SUCCESSOR COMMITTEES.
2.7	(5) AS USED IN THIS SECTION UNLESS THE CONTEXT OTHERWISE

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1	REQUIRES:
2	(a) "AGRIVOLTAICS" MEANS ONE OR MORE SOLAR ENERGY
3	GENERATION FACILITIES DIRECTLY INTEGRATED WITH AGRICULTURAL
4	ACTIVITIES, INCLUDING CROP PRODUCTION, GRAZING, ANIMAL
5	HUSBANDRY, APIARIES, COVER CROPPING $\underline{\text{TO IMPROVE SOIL HEALTH OR}}$
6	<u>INSECT HABITAT</u> BENEFITS OR CARBON SEQUESTRATION, OR PRODUCTION
7	OF AGRICULTURAL COMMODITIES FOR SALE IN THE RETAIL OR WHOLESALE
8	MARKET.
9	
10	(b) "Office" MEANS THE AGRICULTURAL DROUGHT AND CLIMATE
11	RESILIENCE OFFICE CREATED IN SUBSECTION (2) OF THIS SECTION.
12	SECTION 3. In Colorado Revised Statutes, add 35-1-119 as
13	follows:
14	35-1-119. Study of greenhouse gas reduction and carbon
15	sequestration opportunities in agriculture and agricultural land
16	management - definitions - reporting - rules. (1) (a) (I) IN
17	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE
17 18	
	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE
18	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL CONDUCT A
18 19	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL CONDUCT A STUDY TO EXAMINE GREENHOUSE GAS REDUCTION AND CARBON
18 19 20	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL CONDUCT A STUDY TO EXAMINE GREENHOUSE GAS REDUCTION AND CARBON SEQUESTRATION OPPORTUNITIES IN THE AGRICULTURAL SECTOR AND IN
18 19 20 21	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL CONDUCT A STUDY TO EXAMINE GREENHOUSE GAS REDUCTION AND CARBON SEQUESTRATION OPPORTUNITIES IN THE AGRICULTURAL SECTOR AND IN AGRICULTURAL LAND MANAGEMENT IN THE STATE, INCLUDING:
18 19 20 21 22	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL CONDUCT A STUDY TO EXAMINE GREENHOUSE GAS REDUCTION AND CARBON SEQUESTRATION OPPORTUNITIES IN THE AGRICULTURAL SECTOR AND IN AGRICULTURAL LAND MANAGEMENT IN THE STATE, INCLUDING: (A) SOIL HEALTH MANAGEMENT PRACTICES, INCLUDING COVER
18 19 20 21 22 23	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL CONDUCT A STUDY TO EXAMINE GREENHOUSE GAS REDUCTION AND CARBON SEQUESTRATION OPPORTUNITIES IN THE AGRICULTURAL SECTOR AND IN AGRICULTURAL LAND MANAGEMENT IN THE STATE, INCLUDING: (A) SOIL HEALTH MANAGEMENT PRACTICES, INCLUDING COVER CROPPING, MANURE MANAGEMENT, SOIL AMENDMENTS, ROTATIONAL
18 19 20 21 22 23 24	ACCORDANCE WITH SUBSECTION (1)(a)(II) OF THIS SECTION, THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL CONDUCT A STUDY TO EXAMINE GREENHOUSE GAS REDUCTION AND CARBON SEQUESTRATION OPPORTUNITIES IN THE AGRICULTURAL SECTOR AND IN AGRICULTURAL LAND MANAGEMENT IN THE STATE, INCLUDING: (A) SOIL HEALTH MANAGEMENT PRACTICES, INCLUDING COVER CROPPING, MANURE MANAGEMENT, SOIL AMENDMENTS, ROTATIONAL GRAZING, RANGELAND MANAGEMENT, LOW-AND NO-TILL PRACTICES, AND

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1	OFFERING A CERTIFIED GREENHOUSE GAS OFFSET PROGRAM AND CREDIT
2	INSTRUMENTS TO PROVIDE FUNGIBLE GREENHOUSE GAS OFFSETS FOR
3	AGRICULTURAL PRODUCERS AND IN AGRICULTURAL LAND MANAGEMENT.
4	(II) THE COMMISSIONER OR COMMISSIONER'S DESIGNEE SHALL
5	CONDUCT THE STUDY IN CONSULTATION WITH THE COLORADO ENERGY
6	OFFICE CREATED IN SECTION 24-38.5-101, THE AIR QUALITY CONTROL
7	COMMISSION CREATED IN SECTION 25-7-104 (1), THE NATURAL AND
8	WORKING LANDS TASK FORCE CONVENED BY THE DEPARTMENT OF
9	NATURAL RESOURCES, THE COLORADO STATE FOREST SERVICE, AND AN
10	INSTITUTION OF HIGHER EDUCATION WITH EXPERTISE IN CLIMATE CHANGE
11	MITIGATION, ADAPTATION BENEFITS, AND OTHER ENVIRONMENTAL
12	BENEFITS RELATED TO AGRICULTURAL RESEARCH.
13	(b) (I) ANY CERTIFIED GREENHOUSE GAS OFFSET PROGRAM AND
14	CREDIT INSTRUMENTS OFFERED MUST REFLECT REAL, ADDITIONAL,
15	QUANTIFIABLE, PERMANENT, VERIFIABLE, AND ENFORCEABLE REDUCTIONS
16	IN GREENHOUSE GAS EMISSIONS THAT ARE EQUIVALENT TO THE OFFSETS
17	PROVIDED AND MUST NOT REQUIRE AGRICULTURAL PRODUCERS'
18	PARTICIPATION.
19	(II) GREENHOUSE GAS OFFSETS DEVELOPED FOR AGRICULTURAL
20	PRODUCERS AND IN AGRICULTURAL LAND MANAGEMENT IN ACCORDANCE
21	WITH THIS SECTION:
22	(A) MAY BE INCORPORATED INTO THE AIR QUALITY CONTROL
23	COMMISSION'S RULES, INCLUDING RULES ADOPTED UNDER SECTION
24	25-7-105 (1)(e), AND, SPECIFICALLY, RULES CONCERNING COORDINATION
25	WITH OTHER JURISDICTIONS PURSUANT TO THE AUTHORITY GRANTED IN,
26	AND THE CONSIDERATIONS REQUIRED UNDER, SECTION 25-7-105 (1)(e)(V);
27	(B) MAY BE USED AS COMPLIANCE INSTRUMENTS BY A SOURCE

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1	REGULATED UNDER ARTICLE 7 OF TITLE 25, WITH EMISSION REDUCTION
2	OBLIGATIONS ESTABLISHED BY THE AIR QUALITY CONTROL COMMISSION
3	THAT ENSURE THAT THE ANNUAL, OVERALL, ABSOLUTE EMISSIONS FROM
4	THE SOURCE, SECTOR, OR GROUP OF SOURCES DECLINE CONSISTENT WITH
5	THE STATEWIDE GREENHOUSE GAS EMISSION REDUCTION GOALS SET FORTH
6	IN SECTION 25-7-102 (2)(g), PROVIDED THAT THE SOURCE IS LOCATED IN
7	A DISPROPORTIONATELY IMPACTED COMMUNITY. THE COMMISSION SHALL
8	ESTABLISH BY RULE AN ANNUAL, ABSOLUTE EMISSION REDUCTION
9	OBLIGATION SPECIFIC TO THE SOURCE.
10	(C) MUST NOT BE AVAILABLE AS AN INSTRUMENT FOR EMISSIONS
11	REDUCTION COMPLIANCE UNDER SECTION 25-7-105 (1)(e)(V) UNLESS THE
12	COMMISSION HAS ADOPTED RULES ESTABLISHING AN ANNUAL, ABSOLUTE
13	EMISSION REDUCTION OBLIGATION FOR THE RELEVANT SECTOR THAT IS
14	CONSISTENT WITH THE STATEWIDE GREENHOUSE GAS EMISSION REDUCTION
15	GOALS.
16	(c) The study must identify policy mechanisms to <u>avoid</u> the
17	IMPACTS THAT THE USE OF GREENHOUSE GAS OFFSETS BY REGULATED
18	SOURCES COULD HAVE ON DISPROPORTIONATELY IMPACTED COMMUNITIES.
19	(2) THE COMMISSIONER OR THE COMMISSIONER'S DESIGNEE SHALL
20	SUBMIT TO THE GENERAL ASSEMBLY:
21	(a) A REPORT SUMMARIZING THE PROGRESS ON THE STUDY ON OR
22	BEFORE OCTOBER 1, 2024; AND
23	(b) A FINAL REPORT ON THE STUDY ON OR BEFORE OCTOBER 1,
24	2025. The final report must include any legislative, regulatory,
25	OR OTHER RECOMMENDATIONS FOR DESIGNING AND IMPLEMENTING
26	GREENHOUSE GAS REDUCTION AND CARBON SEQUESTRATION
27	OPPORTUNITIES FOR THE AGRICULTURAL SECTOR AND IN AGRICULTURAL

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1	LAND MANAGEMENT IN THE STATE.
2	(3)(a)(I) Upon conclusion of the study, with regard to any
3	RECOMMENDATIONS IN THE STUDY THAT DO NOT REQUIRE LEGISLATIVE
4	CHANGES, THE COMMISSIONER, IN CONSULTATION WITH THE COLORADO
5	ENERGY OFFICE AND THE AIR QUALITY CONTROL COMMISSION, MAY ADOPT
6	RULES TO IMPLEMENT THE RECOMMENDATIONS.
7	(II) ANY RULES ADOPTED PURSUANT TO THIS SUBSECTION (3)(a)
8	MUST NOT MANDATE PARTICIPATION BY AGRICULTURAL PRODUCERS IN
9	ANY GREENHOUSE GAS OFFSET PROGRAM OR ANY OTHER GREENHOUSE GAS
10	REDUCTION AND CARBON SEQUESTRATION PROGRAMS OR MECHANISMS
11	DEVELOPED IN RULE, BUT THE RULES MAY PROVIDE INCENTIVES TO
12	AGRICULTURAL PRODUCERS FOR THEIR VOLUNTARY PARTICIPATION IN ANY
13	PROGRAM OR MECHANISM DEVELOPED IN RULE PURSUANT TO THIS
14	SUBSECTION $(3)(a)$.
15	(b) If the commissioner adopts rules pursuant to
16	SUBSECTION (3)(a) OF THIS SECTION, THE DEPARTMENT SHALL INCLUDE A
17	SUMMARY OF THE RULES AS PART OF THE DEPARTMENT'S REGULATORY
18	AGENDA THAT IT FILES PURSUANT TO SECTION 2-7-203 (4) AND THAT IS
19	INCLUDED IN THE DEPARTMENT'S "SMART ACT" PRESENTATION THAT
20	IMMEDIATELY FOLLOWS THE ADOPTION OF THE RULES.
21	(4) Nothing in this section requires the air quality
22	CONTROL COMMISSION TO ADOPT RULES FOR GREENHOUSE GAS EMISSION
23	OFFSETS OR CREDIT MECHANISMS OR TO ACCEPT ANY GREENHOUSE GAS
24	EMISSION OFFSETS OR CREDIT MECHANISMS AS COMPLIANCE INSTRUMENTS
25	FOR EMISSION REDUCTION COMPLIANCE OR VERIFICATION.
26	(5) As used in this section, unless the context otherwise
27	REQUIRES:

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1	(a) "Anaerobic digester" means a sealed, oxygen-free tank
2	INTO WHICH FEEDSTOCK, SUCH AS FOOD WASTE, ANIMAL MANURE, OR
3	WASTEWATER SLUDGE, IS PLACED FOR ANAEROBIC DIGESTION BY
4	MICROORGANISMS. AN ANAEROBIC DIGESTER CAN BE USED AS A MEANS OF
5	WASTE DISPOSAL OR ENERGY PRODUCTION.
6	(b) "DISPROPORTIONATELY IMPACTED COMMUNITIES" HAS THE
7	MEANING SET FORTH IN SECTION 24-4-109 (2)(b)(II).
8	(c) "DRY DIGESTER" MEANS AN ANAEROBIC DIGESTER THAT
9	PROCESSES FEEDSTOCK WITH A LOW MOISTURE CONTENT.
10	SECTION 4. In Colorado Revised Statutes, 37-60-115, add (12)
11	as follows:
12	37-60-115. Water studies - rules - reports - definitions - repeal.
13	(12) (a) Study. (I) The board, in consultation with the state
14	ENGINEER, THE COLORADO ENERGY OFFICE, AND THE INSTITUTE, SHALL
15	CONDUCT A STUDY TO DETERMINE THE FEASIBILITY OF THE USE OF
16	AQUAVOLTAICS AS A MEANS OF INCREASING THE BENEFICIAL
17	CONSUMPTIVE USE OF STATE WATERS BY REDUCING EVAPORATION FROM,
18	AND LOWERING TEMPERATURES OF, IRRIGATION CANALS AND RESERVOIRS
19	UPON WHICH AQUAVOLTAIC INFRASTRUCTURE IS PLACED. IN STUDYING
20	THE FEASIBILITY OF USING AQUAVOLTAICS, THE BOARD SHALL ENSURE
21	THAT ANY AQUAVOLTAIC INFRASTRUCTURE USED IN THE STUDY DOES NOT
22	INTERFERE WITH INSTREAM FLOWS, AS DESCRIBED IN SECTION 37-92-102
23	(3), OR WITH WATER RIGHTS OWNERS' ABILITY TO DIVERT WATER FOR
24	BENEFICIAL USE.
25	(II) THE BOARD MAY CONTRACT WITH THE INSTITUTE, A THIRD
26	PARTY, OR BOTH, TO DESIGN, CARRY OUT, AND ANALYZE THE RESULTS OF
27	THE STUDY REQUIRED IN THIS SUBSECTION (12)(a). IF THE BOARD DEEMS

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1	APPROPRIATE, THE STUDY MUST BE CONDUCTED IN CONSIDERATION OF
2	AND RELIANCE ON RELEVANT STUDIES COMPLETED IN THE STATE AND
3	NATIONALLY.
4	(b) Report. On or before January 1, 2025, the board shall
5	SUBMIT A REPORT OF THE FINDINGS AND CONCLUSIONS OF THE STUDY TO
6	THE HOUSE OF REPRESENTATIVES AGRICULTURE, WATER, AND NATURAL
7	RESOURCES COMMITTEE AND THE SENATE AGRICULTURE AND NATURAL
8	RESOURCES COMMITTEE, OR THEIR SUCCESSOR COMMITTEES.
9	(c) As used in this subsection (12), unless the context
10	OTHERWISE REQUIRES:
11	(I) "AQUAVOLTAICS" MEANS ONE OR MORE SOLAR ENERGY
12	GENERATION FACILITIES PLACED OVER, OR FLOATING ON, IRRIGATION
13	CANALS OR RESERVOIRS IN THE STATE.
14	(II) "BENEFICIAL USE" HAS THE MEANING SET FORTH IN SECTION
15	37-92-103 (4).
16	(III) "DIVERT" HAS THE MEANING SET FORTH IN SECTION
17	37-92-103 (7).
18	(IV) "Institute" means the Colorado water institute
19	CREATED IN SECTION 23-31-801.
20	$\underline{(\mathrm{V})}$ "Water right" has the meaning set forth in section
21	37-92-103 (12).
22	(VI) "WATERS OF THE STATE" HAS THE MEANING SET FORTH IN
23	SECTION 37-92-103 (13).
24	SECTION 5. In Colorado Revised Statutes, 39-3-122, add (3)
25	and (4) as follows:
26	39-3-122. Agricultural equipment used in production of
27	agricultural products - CEA facilities - exemption - definition. (3) ON

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1	AND AFTER JANUARY 1, 2024, BUT BEFORE JANUARY 2, 2029, PERSONAL
2	PROPERTY IS EXEMPTED FROM THE LEVY AND COLLECTION OF PROPERTY
3	TAX IF THE PROPERTY IS MACHINERY OR EQUIPMENT THAT IS PART OF A
4	SOLAR ENERGY GENERATING SYSTEM THAT IS USED FOR AGRIVOLTAICS.
5	AND IF THE PROPERTY:
6	(a) Incorporates novel designs, technologies, or
7	CONFIGURATIONS THAT SIGNIFICANTLY EXPAND THE POTENTIAL FOR
8	AGRICULTURAL ACTIVITIES, INCLUDING BY:
9	(I) ELEVATING THE BOTTOM EDGE HEIGHT OF THE PANELS AT
10	LEAST SIX FEET ABOVE THE GROUND;
11	(II) UTILIZING TRANSLUCENT PANELS;
12	(III) INCORPORATING ALTERNATIVE SOLAR TRACKING ALGORITHMS
13	THAT ARE TAILORED TO OPTIMIZE VEGETATIVE GROWTH; OR
14	(IV) INCORPORATING EXTENDED ROW OR PANEL SPACING IN A
15	MANNER THAT ENABLES AGRICULTURAL ACTIVITIES;
16	(b) Is constructed in a manner that minimizes soil
17	COMPACTION UNDERNEATH AND IN BETWEEN PANELS; AND
18	(c) Is constructed to incorporate design strategies that
19	MINIMIZE THE NEGATIVE ENVIRONMENTAL IMPACT OF PHOTOVOLTAIC
20	ENERGY PRODUCTION FACILITIES ON ECOSYSTEMS, NATIVE VEGETATION.
21	STATE AND FEDERALLY LISTED SPECIES, WILDLIFE MIGRATION CORRIDORS.
22	AND THE SPECIES, HABITATS, AND ECOSYSTEMS OF GREATEST
23	CONSERVATION NEED.
24	(4) As used in this section, "agrivoltaics" has the meaning
25	<u>SET FORTH IN SECTION 35-1-114 (5)(a).</u>
26	SECTION 6. In Colorado Revised Statutes, 39-4-101, amend
27	(3.5) as follows:

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1	39-4-101. Definitions. As used in this article 4, unless the context
2	otherwise requires:
3	(3.5) (a) "Solar energy facility" means a new facility first placed
4	in production on or after January 1, 2009, that uses real and personal
5	property, including but not limited to one or more solar energy devices,
6	as defined in section 38-32.5-100.3 (2), leaseholds, and easements, to
7	generate and, EXCEPT AS PROVIDED IN SUBSECTION (3.5)(b) OF THIS
8	SECTION, deliver to the interconnection meter any source of electrical,
9	thermal, or mechanical energy in excess of two megawatts by harnessing
10	the radiant energy of the sun, including any connected device for which
11	the primary purpose is to store energy, and that is not primarily designed
12	to supply electricity for consumption on site.
13	(b) "SOLAR ENERGY FACILITY" INCLUDES FACILITIES FOR
14	AGRIVOLTAICS, AS DEFINED IN SECTION 35-1-114 (5)(a), AND FOR
15	AQUAVOLTAICS, AS DEFINED IN SECTION 37-60-115 $\underline{(12)(c)(I)}$. THAT
16	DELIVER TO THE INTERCONNECTION METER ELECTRICAL ENERGY IN EXCESS
17	OF FIVE HUNDRED KILOWATTS
18	SECTION 7. In Colorado Revised Statutes, 39-27-102.5, add
19	(11) as follows:
20	39-27-102.5. Exemptions on tax imposed - ex-tax purchases -
21	definitions - repeal. (11) (a) As used in this subsection (11), unless
22	THE CONTEXT OTHERWISE REQUIRES:
23	(I) "BIODIESEL" MEANS A FUEL COMPRISED OF MONO-ALKYL
24	ESTERS OF LONG-CHAIN FATTY ACIDS GENERALLY DERIVED FROM
25	VEGETABLE OILS OR ANIMAL FATS, DESIGNATED AS B100, AND MEETS THE
26	REQUIREMENTS OF ASTM D6751, WHICH IS THE "STANDARD
27	SPECIFICATION FOR BIODIESEL FUEL BLEND STOCK (B100) FOR MIDDLE

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1	DISTILLATE FUELS".
2	(II) "RENEWABLE DIESEL" MEANS A HYDROCARBON DIESEL
3	VEHICLE FUEL PRODUCED FROM NONPETROLEUM RENEWABLE RESOURCES
4	SUCH AS VEGETABLE OILS, INCLUDING SOY, CORN, AND CANOLA, ANIMAL
5	OR POULTRY FAT, USED COOKING OIL, MUNICIPAL SOLID WASTE, AND
6	WASTEWATER SLUDGE AND OILS. "RENEWABLE DIESEL" MEETS OR
7	EXCEEDS ALL MINIMUM STANDARDS SET FORTH IN ASTM D975, WHICH IS
8	THE "STANDARD SPECIFICATION FOR DIESEL FUEL". "RENEWABLE DIESEL"
9	IS NOT BIODIESEL.
10	(b) (I) On and after January 1, 2024, through December 31,
11	2029, BIODIESEL AND RENEWABLE DIESEL BLENDS IN AMOUNTS OF FIVE
12	PERCENT (B5) BIODIESEL OR RENEWABLE DIESEL OR GREATER ARE EXEMPT
13	FROM THE EXCISE TAX IMPOSED PURSUANT TO THIS PART 1. IN THE CASE
14	OF A BLENDED SPECIAL FUEL THAT CONTAINS BIODIESEL OR RENEWABLE
15	DIESEL, THE TAX IMPOSED UNDER SECTION 39-27-102 (1)(a)(II)(B) IS
16	REDUCED BY THE PROPORTION THAT THE GALLONS OF BIODIESEL OR
17	RENEWABLE DIESEL BEAR TO THE TOTAL GALLONS OF BLENDED SPECIAL
18	<u>FUEL.</u>
19	(II) A LICENSED FUEL DISTRIBUTOR THAT IS RESPONSIBLE FOR
20	PAYING STATE EXCISE TAX ON THE UNDERLYING DIESEL PORTION OF THE
21	FUEL IS ELIGIBLE FOR THE TAX EXEMPTION SET FORTH IN THIS SUBSECTION
22	<u>(11)(b)</u>
23	(c) (I) THE VOLUME OF BIODIESEL OR RENEWABLE DIESEL MUST BE
24	IDENTIFIED ON A SALES INVOICE FOR EACH SALES TRANSACTION AND MUST
25	CONTINUE TO BE IDENTIFIED ON EACH SALES INVOICE UNTIL THE BLENDED
26	BIODIESEL OR BLENDED RENEWABLE DIESEL FUEL PRODUCT IS SOLD TO THE
27	END USER.

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1	(II) A SALES INVOICE MUST:
2	(A) IDENTIFY A BIODIESEL, RENEWABLE DIESEL, BIODIESEL BLEND,
3	OR RENEWABLE DIESEL BLEND BY A COMMONLY ACCEPTED COMMERCIAL
4	OR INDUSTRY NAME FOR THE BLENDED SPECIAL FUEL PRODUCT BEING
5	SOLD, SUCH AS B100 FOR BIODIESEL OR B20 FOR A BIODIESEL BLEND THAT
6	CONTAINS EIGHTY PERCENT TAXABLE PETROLEUM-BASED DIESEL FUEL
7	AND TWENTY PERCENT BIODIESEL;
8	(B) LIST THE VOLUME IN GALLONS, ROUNDED TO THE NEAREST
9	WHOLE GALLON, OR THE PERCENTAGE, ROUNDED TO THE NEAREST WHOLE
10	PERCENTAGE, OF THE BIODIESEL OR RENEWABLE DIESEL OR TAXABLE
11	PETROLEUM-BASED DIESEL FUEL CONTAINED IN THE BLENDED SPECIAL
12	FUEL PRODUCT.
13	(C) INCLUDE THE AMOUNT OF TAX PER GALLON THAT APPLIES TO
14	THE BIODIESEL BLEND OR RENEWABLE DIESEL BLEND.
15	(d) (I) A BLENDER MUST PROVIDE TO A PURCHASER OF BIODIESEL,
16	RENEWABLE DIESEL, BLENDED BIODIESEL, OR BLENDED RENEWABLE
17	DIESEL A CERTIFICATE, INVOICE, BILL OF SALE, OR OTHER WRITTEN
18	STATEMENT THAT PROVIDES THE INFORMATION REQUIRED PURSUANT TO
19	SUBSECTION (11)(c)(II) OF THIS SECTION AND THE FOLLOWING
20	ADDITIONAL INFORMATION:
21	(A) THE NAME OF THE SELLER;
22	(B) THE NAME OF THE PURCHASER; AND
23	(C) The date of transfer of the blended special fuel
24	PRODUCT.
25	(II) ANY PERSON CLAIMING THE TAX EXEMPTION PURSUANT TO
26	SUBSECTION (11)(b) OF THIS SECTION MUST MAINTAINS THE
27	CEDTIFICATION DECODES DEGADDING THE BIODIESEL DENEWARI E DIESEL

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I	BLENDED BIODIESEL, OR BLENDED RENEWABLE DIESEL FUEL PRODUCT FOR
2	AT LEAST FOUR YEARS.
3	(e) On or before September 15, 2024, and on or before
4	SEPTEMBER 15 FOR EACH YEAR THEREAFTER THROUGH 2029, THE
5	DEPARTMENT SHALL REPORT TO THE STATE TREASURER ON THE AMOUNT
6	OF SPECIAL FUEL TAX REVENUE LOST DUE TO THE TAX EXEMPTION SET
7	FORTH IN THIS SUBSECTION (11) IN THE PREVIOUS STATE FISCAL YEAR.
8	(f) This subsection (11) is repealed, effective September 1,
9	<u>2030.</u>
10	SECTION 8. In Colorado Revised Statutes, 24-75-219, add (7)(i)
11	as follows:
12	24-75-219. Transfers - transportation - capital construction -
13	definitions - repeal. (7) In addition to any other transfers required by
14	this section:
15	(i) (I) ON OCTOBER 1, 2024, AND ON OCTOBER 1 OF EACH YEAR
16	THEREAFTER THROUGH 2029, THE STATE TREASURER SHALL TRANSFER
17	FROM THE GENERAL FUND TO THE HIGHWAY USERS TAX FUND, CREATED IN
18	SECTION 43-4-201, THE AMOUNT OF MONEY THAT THE DEPARTMENT OF
19	REVENUE REPORTS TO THE STATE TREASURER PURSUANT TO SECTION
20	<u>39-27-102.5 (11)(e).</u>
21	(II) This subsection (7)(i) is repealed, effective September
22	<u>1, 2030.</u>
23	SECTION 9. In Colorado Revised Statutes, 43-4-205, amend
24	(6.7) as follows:
25	43-4-205. Allocation of fund. (6.7) Money transferred from the
26	general fund to the highway users tax fund pursuant to section 24-75-219
27	(5)(h 5) AND (7)(i) must be allocated and expended in accordance with the

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1	formula specified in subsection (6)(b) of this section.
2	SECTION 10. Appropriation. (1) For the 2023-24 state fiscal
3	year, \$4,516,267 General Fund is appropriated to the department of
4	agriculture for use by the commissioner's office and administrative
5	services. To implement this act, the office may use this appropriation as
6	<u>follows:</u>
7	(a) \$412,680 for personal services, which amount is based on an
8	assumption that the office will require an additional 1.0 FTE;
9	(b) \$186,665 for operating expenses;
10	(c) \$3,862,422 for agrivoltaics grants; and
11	(e) \$54,500 for the task force.
12	(2) Any money appropriated in subsection 1 of this section not
13	expended prior to July 1, 2024, is further appropriated to the office for the
14	same purpose until expended or June 30, 2026, whichever comes first.
15	(3) For the 2023-24 state fiscal year, \$30,322 General Fund is
16	appropriated to the department of revenue. To implement this act, the
17	department may use this appropriation as follows:
18	(a) \$7,392 for use by taxations services for personal services; and
19	(b) \$22,930 for tax administration IT system (GenTax) support.
20	SECTION 11. Act subject to petition - effective date. This act
21	takes effect at 12:01 a.m. on the day following the expiration of the
22	ninety-day period after final adjournment of the general assembly; except
23	that, if a referendum petition is filed pursuant to section 1 (3) of article V
24	of the state constitution against this act or an item, section, or part of this
25	act within such period, then the act, item, section, or part will not take
26	effect unless approved by the people at the general election to be held in

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- 1 November 2024 and, in such case, will take effect on the date of the
- 2 official declaration of the vote thereon by the governor.

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