

ALTERNATIVE FUEL INCENTIVES AMENDMENTS

2021 GENERAL SESSION

STATE OF UTAH

Chief Sponsor: Melissa G. Ballard

Senate Sponsor: David P. Hinkins

Cosponsors:	Michael J. Petersen	Keven J. Stratton
Carl R. Albrecht	Angela Romero	
Clare Collard	Douglas V. Sagers	
Steven J. Lund		

LONG TITLE

General Description:

This bill modifies and enacts incentives related to alternative fuels.

Highlighted Provisions:

This bill:

- ▶ enacts refundable corporate and individual income tax credits for systems that produce hydrogen from renewable and nonrenewable sources; and
- ▶ makes technical and conforming changes.

Money Appropriated in this Bill:

None

Other Special Clauses:

This bill provides a special effective date.

Utah Code Sections Affected:

AMENDS:

[59-7-614](#), as last amended by Laws of Utah 2019, Chapter 247

[59-10-1106](#), as last amended by Laws of Utah 2016, Third Special Session, Chapter 1

ENACTS:

[59-7-626](#), Utah Code Annotated 1953

59-10-1113, Utah Code Annotated 1953

Be it enacted by the Legislature of the state of Utah:

Section 1. Section 59-7-614 is amended to read:

59-7-614. Renewable energy systems tax credits -- Definitions -- Certification -- Rulemaking authority.

(1) As used in this section:

(a) (i) "Active solar system" means a system of equipment that is capable of:

(A) collecting and converting incident solar radiation into thermal, mechanical, or electrical energy; and

(B) transferring a form of energy described in Subsection (1)(a)(i)(A) by a separate apparatus to storage or to the point of use.

(ii) "Active solar system" includes water heating, space heating or cooling, and electrical or mechanical energy generation.

(b) "Biomass system" means a system of apparatus and equipment for use in:

(i) converting material into biomass energy, as defined in Section 59-12-102; and

(ii) transporting the biomass energy by separate apparatus to the point of use or storage.

(c) "Commercial energy system" means a system that is:

(i) (A) an active solar system;

(B) a biomass system;

(C) a direct use geothermal system;

(D) a geothermal electricity system;

(E) a geothermal heat pump system;

(F) a hydroenergy system;

(G) a passive solar system; or

(H) a wind system;

(ii) located in the state; and

(iii) used:

(A) to supply energy to a commercial unit; or

(B) as a commercial enterprise.

(d) "Commercial enterprise" means an entity, the purpose of which is to produce:

(i) electrical, mechanical, or thermal energy for sale from a commercial energy system;

or

(ii) hydrogen for sale from a hydrogen production system.

(e) (i) "Commercial unit" means a building or structure that an entity uses to transact business.

(ii) Notwithstanding Subsection (1)(e)(i):

(A) with respect to an active solar system used for agricultural water pumping or a wind system, each individual energy generating device is considered to be a commercial unit; or

(B) if an energy system is the building or structure that an entity uses to transact business, a commercial unit is the complete energy system itself.

(f) "Direct use geothermal system" means a system of apparatus and equipment that enables the direct use of geothermal energy to meet energy needs, including heating a building, an industrial process, and aquaculture.

(g) "Geothermal electricity" means energy that is:

(i) contained in heat that continuously flows outward from the earth; and

(ii) used as a sole source of energy to produce electricity.

(h) "Geothermal energy" means energy generated by heat that is contained in the earth.

(i) "Geothermal heat pump system" means a system of apparatus and equipment that:

(i) enables the use of thermal properties contained in the earth at temperatures well below 100 degrees Fahrenheit; and

(ii) helps meet heating and cooling needs of a structure.

(j) "Hydroenergy system" means a system of apparatus and equipment that is capable

of:

(i) intercepting and converting kinetic water energy into electrical or mechanical

energy; and

(ii) transferring this form of energy by separate apparatus to the point of use or storage.

(k) "Hydrogen production system" means a system of apparatus and equipment, located in this state, that uses:

(i) electricity from a renewable energy source to create hydrogen gas from water, regardless of whether the renewable energy source is at a separate facility or the same facility as the system of apparatus and equipment; or

(ii) uses renewable natural gas to produce hydrogen gas.

~~[(t)]~~ (l) "Office" means the Office of Energy Development created in Section 63M-4-401.

~~[(t)]~~ (m) (i) "Passive solar system" means a direct thermal system that utilizes the structure of a building and ~~[its]~~ the structure's operable components to provide for collection, storage, and distribution of heating or cooling during the appropriate times of the year by utilizing the climate resources available at the site.

(ii) "Passive solar system" includes those portions and components of a building that are expressly designed and required for the collection, storage, and distribution of solar energy.

~~[(m)]~~ (n) "Photovoltaic system" means an active solar system that generates electricity from sunlight.

~~[(n)]~~ (o) (i) "Principal recovery portion" means the portion of a lease payment that constitutes the cost a person incurs in acquiring a commercial energy system.

(ii) "Principal recovery portion" does not include:

(A) an interest charge; or

(B) a maintenance expense.

(p) "Renewable energy source" means the same as that term is defined in Section 54-17-601.

~~[(o)]~~ (q) "Residential energy system" means the following used to supply energy to or for a residential unit:

(i) an active solar system;

- (ii) a biomass system;
- (iii) a direct use geothermal system;
- (iv) a geothermal heat pump system;
- (v) a hydroenergy system;
- (vi) a passive solar system; or
- (vii) a wind system.

~~[(p)]~~ (r) (i) "Residential unit" means a house, condominium, apartment, or similar dwelling unit that:

- (A) is located in the state; and
 - (B) serves as a dwelling for a person, group of persons, or a family.
- (ii) "Residential unit" does not include property subject to a fee under:
- (A) Section 59-2-405;
 - (B) Section 59-2-405.1;
 - (C) Section 59-2-405.2;
 - (D) Section 59-2-405.3; or
 - (E) Section 72-10-110.5.

~~[(q)]~~ (s) "Wind system" means a system of apparatus and equipment that is capable of:

- (i) intercepting and converting wind energy into mechanical or electrical energy; and
- (ii) transferring these forms of energy by a separate apparatus to the point of use, sale, or storage.

(2) A taxpayer may claim an energy system tax credit as provided in this section against a tax due under this chapter for a taxable year.

(3) (a) Subject to the other provisions of this Subsection (3), a taxpayer may claim a nonrefundable tax credit under this Subsection (3) with respect to a residential unit the taxpayer owns or uses if:

- (i) the taxpayer:
 - (A) purchases and completes a residential energy system to supply all or part of the energy required for the residential unit; or

(B) participates in the financing of a residential energy system to supply all or part of the energy required for the residential unit; and

~~[(ii) the residential energy system is completed and placed in service on or after January 1, 2007; and]~~

~~[(iii)]~~ (ii) the taxpayer obtains a written certification from the office in accordance with Subsection ~~[(7)]~~ (8).

(b) (i) Subject to Subsections (3)(b)(ii) through (iv) and, as applicable, Subsection (3)(c) or (d), the tax credit is equal to 25% of the reasonable costs of each residential energy system installed with respect to each residential unit the taxpayer owns or uses.

(ii) A tax credit under this Subsection (3) may include installation costs.

(iii) A taxpayer may claim a tax credit under this Subsection (3) for the taxable year in which the residential energy system is completed and placed in service.

(iv) If the amount of a tax credit under this Subsection (3) exceeds a taxpayer's tax liability under this chapter for a taxable year, the taxpayer may carry forward the amount of the tax credit exceeding the liability ~~[may be carried forward]~~ for a period that does not exceed the next four taxable years.

(c) The total amount of tax credit a taxpayer may claim under this Subsection (3) for a residential energy system, other than a photovoltaic system, may not exceed \$2,000 per residential unit.

(d) The total amount of tax credit a taxpayer may claim under this Subsection (3) for a photovoltaic system may not exceed:

(i) for a system installed on or after January 1, 2018, but on or before December 31, 2020, \$1,600;

(ii) for a system installed on or after January 1, 2021, but on or before December 31, 2021, \$1,200;

(iii) for a system installed on or after January 1, 2022, but on or before December 31, 2022, \$800;

(iv) for a system installed on or after January 1, 2023, but on or before December 31,

2023, \$400; and

(v) for a system installed on or after January 1, 2024, \$0.

(e) If a taxpayer sells a residential unit to another person before the taxpayer claims the tax credit under this Subsection (3):

(i) the taxpayer may assign the tax credit to the other person; and

(ii) (A) if the other person files a return under this chapter, the other person may claim the tax credit under this section as if the other person had met the requirements of this section to claim the tax credit; or

(B) if the other person files a return under Chapter 10, Individual Income Tax Act, the other person may claim the tax credit under Section 59-10-1014 as if the other person had met the requirements of Section 59-10-1014 to claim the tax credit.

(4) (a) Subject to the other provisions of this Subsection (4), a taxpayer may claim a refundable tax credit under this Subsection (4) with respect to a commercial energy system if:

(i) the commercial energy system does not use:

(A) wind, geothermal electricity, solar, or biomass equipment capable of producing a total of 660 or more kilowatts of electricity; or

(B) solar equipment capable of producing 2,000 or more kilowatts of electricity;

(ii) the taxpayer purchases or participates in the financing of the commercial energy system;

(iii) (A) the commercial energy system supplies all or part of the energy required by commercial units owned or used by the taxpayer; or

(B) the taxpayer sells all or part of the energy produced by the commercial energy system as a commercial enterprise;

~~[(iv) the commercial energy system is completed and placed in service on or after January 1, 2007; and]~~

(iv) the taxpayer has not claimed and will not claim a tax credit under Subsection (7) for hydrogen production using electricity for which the taxpayer claims a tax credit under this Subsection (4); and

(v) the taxpayer obtains a written certification from the office in accordance with Subsection [(7)] (8).

(b) (i) Subject to Subsections (4)(b)(ii) through [(v)] (iv), the tax credit is equal to 10% of the reasonable costs of the commercial energy system.

(ii) A tax credit under this Subsection (4) may include installation costs.

(iii) A taxpayer [~~may claim~~] is eligible to claim a tax credit under this Subsection (4) for the taxable year in which the commercial energy system is completed and placed in service.

~~[(iv) A tax credit under this Subsection (4) may not be carried forward or carried back.]~~

[(v)] (iv) The total amount of tax credit a taxpayer may claim under this Subsection (4) may not exceed \$50,000 per commercial unit.

(c) (i) Subject to Subsections (4)(c)(ii) and (iii), a taxpayer that is a lessee of a commercial energy system installed on a commercial unit may claim a tax credit under this Subsection (4) if the taxpayer confirms that the lessor irrevocably elects not to claim the tax credit.

(ii) A taxpayer described in Subsection (4)(c)(i) may claim as a tax credit under this Subsection (4) only the principal recovery portion of the lease payments.

(iii) A taxpayer described in Subsection (4)(c)(i) may claim a tax credit under this Subsection (4) for a period that does not exceed seven taxable years after the [date] day on which the lease begins, as stated in the lease agreement.

(5) (a) Subject to the other provisions of this Subsection (5), a taxpayer may claim a refundable tax credit under this Subsection (5) with respect to a commercial energy system if:

(i) the commercial energy system uses wind, geothermal electricity, or biomass equipment capable of producing a total of 660 or more kilowatts of electricity;

(ii) (A) the commercial energy system supplies all or part of the energy required by commercial units owned or used by the taxpayer; or

(B) the taxpayer sells all or part of the energy produced by the commercial energy system as a commercial enterprise;

~~[(iii) the commercial energy system is completed and placed in service on or after~~

224 ~~January 1, 2007; and]~~

225 (iii) the taxpayer has not claimed and will not claim a tax credit under Subsection (7)
226 for hydrogen production using electricity for which the taxpayer claims a tax credit under this
227 Subsection (5); and

228 (iv) the taxpayer obtains a written certification from the office in accordance with
229 Subsection ~~[(7)]~~ (8).

230 (b) (i) Subject to ~~[Subsections]~~ Subsection (5)(b)(ii) ~~[and (iii)]~~, a tax credit under this
231 Subsection (5) is equal to the product of:

232 (A) 0.35 cents; and

233 (B) the kilowatt hours of electricity produced and used or sold during the taxable year.

234 (ii) A taxpayer is eligible to claim a tax credit under this Subsection (5) ~~[may be~~
235 ~~claimed]~~ for production occurring during a period of 48 months beginning with the month in
236 which the commercial energy system is placed in commercial service.

237 ~~[(iii) A tax credit under this Subsection (5) may not be carried forward or carried back.]~~

238 (c) A taxpayer that is a lessee of a commercial energy system installed on a commercial
239 unit may claim a tax credit under this Subsection (5) if the taxpayer confirms that the lessor
240 irrevocably elects not to claim the tax credit.

241 (6) (a) Subject to the other provisions of this Subsection (6), a taxpayer may claim a
242 refundable tax credit as provided in this Subsection (6) if:

243 (i) the taxpayer owns a commercial energy system that uses solar equipment capable of
244 producing a total of 660 or more kilowatts of electricity;

245 (ii) (A) the commercial energy system supplies all or part of the energy required by
246 commercial units owned or used by the taxpayer; or

247 (B) the taxpayer sells all or part of the energy produced by the commercial energy
248 system as a commercial enterprise;

249 (iii) the taxpayer does not claim a tax credit under Subsection (4) and has not claimed
250 and will not claim a tax credit under Subsection (7) for hydrogen production using electricity
251 for which a taxpayer claims a tax credit under this Subsection (6); and

~~[(iv) the commercial energy system is completed and placed in service on or after
January 1, 2015; and]~~

~~[(v)]~~ (iv) the taxpayer obtains a written certification from the office in accordance with
Subsection ~~[(7)]~~ (8).

(b) (i) Subject to ~~[Subsections]~~ Subsection (6)(b)(ii) ~~[and (iii)]~~, a tax credit under this
Subsection (6) is equal to the product of:

(A) 0.35 cents; and

(B) the kilowatt hours of electricity produced and used or sold during the taxable year.

(ii) A taxpayer is eligible to claim a tax credit under this Subsection (6) ~~[may be
claimed for]~~ production occurring during a period of 48 months beginning with the month in
which the commercial energy system is placed in commercial service.

~~[(iii) A tax credit under this Subsection (6) may not be carried forward or carried back.]~~

(c) A taxpayer that is a lessee of a commercial energy system installed on a commercial
unit may claim a tax credit under this Subsection (6) if the taxpayer confirms that the lessor
irrevocably elects not to claim the tax credit.

(7) (a) A taxpayer may claim a refundable tax credit as provided in this Subsection (7)
if:

(i) the taxpayer owns a hydrogen production system;

(ii) the hydrogen production system is completed and placed in service on or after
January 1, 2022;

(iii) the taxpayer sells as a commercial enterprise, or supplies for the taxpayer's own
use in commercial units, the hydrogen produced from the hydrogen production system;

(iv) the taxpayer has not claimed and will not claim a tax credit under Subsection (4),
(5), or (6) or Section 59-7-626 for electricity or hydrogen used to meet the requirements of this
Subsection (7); and

(v) the taxpayer obtains a written certification from the office in accordance with
Subsection (8).

(b) (i) Subject to Subsections (7)(b)(ii) and (iii), a tax credit under this Subsection (7)

is equal to the product of:

(A) \$0.12; and

(B) the number of kilograms of hydrogen produced during the taxable year.

(ii) A taxpayer may not receive a tax credit under this Subsection (7) for more than 5,600 metric tons of hydrogen per taxable year.

(iii) A taxpayer is eligible to claim a tax credit under this Subsection (7) for production occurring during a period of 48 months beginning with the month in which the hydrogen production system is placed in commercial service.

[~~(7)~~] (8) (a) Before a taxpayer may claim a tax credit under this section, the taxpayer shall obtain a written certification from the office.

(b) The office shall issue a taxpayer a written certification if the office determines that:

(i) the taxpayer meets the requirements of this section to receive a tax credit; and

(ii) the residential energy system [~~or~~], the commercial energy system, or the hydrogen production system with respect to which the taxpayer seeks to claim a tax credit:

(A) has been completely installed;

(B) is a viable system for saving or producing energy from renewable resources; and

(C) is safe, reliable, efficient, and technically feasible to ensure that the residential energy system [~~or~~], the commercial energy system, or the hydrogen production system uses the state's renewable and nonrenewable energy resources in an appropriate and economic manner.

(c) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the office may make rules:

(i) for determining whether a residential energy system [~~or~~], a commercial energy system, or a hydrogen production system meets the requirements of Subsection [~~(7)~~] (8)(b)(ii); and

(ii) for purposes of a tax credit under Subsection (3) [~~or~~], (4), or (6), establishing the reasonable costs of a residential energy system or a commercial energy system, as an amount per unit of energy production.

(d) A taxpayer that obtains a written certification from the office shall retain the

certification for the same time period a person is required to keep books and records under Section 59-1-1406.

(e) The office shall submit to the commission an electronic list that includes:

(i) the name and identifying information of each taxpayer to which the office issues a written certification; and

(ii) for each taxpayer:

(A) the amount of the tax credit listed on the written certification; and

(B) the date the renewable energy system was installed.

~~[(8)]~~ (9) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the commission may make rules to address the certification of a tax credit under this section.

~~[(9)]~~ (10) A tax credit under this section is in addition to any tax credits provided under the laws or rules and regulations of the United States.

Section 2. Section 59-7-626 is enacted to read:

59-7-626. Refundable tax credit for nonrenewable hydrogen production system.

(1) As used in this section:

(a) "Commercial enterprise" means an entity, the purpose of which is to produce hydrogen for sale from a hydrogen production system.

(b) "Commercial unit" means a building or structure that an entity uses to transact business.

(c) "Hydrogen production system" means a system of apparatus and equipment, located in this state, that produces hydrogen from nonrenewable sources.

(d) "Office" means the Office of Energy Development created in Section 63M-4-401.

(2) (a) A taxpayer may claim a refundable credit under this section if:

(i) the taxpayer owns a hydrogen production system;

(ii) the hydrogen production system is completed and placed in service on or after January 1, 2022;

(iii) the taxpayer sells as a commercial enterprise, or supplies for the taxpayer's own

use in commercial units, the hydrogen produced from the hydrogen production system;

(iv) the taxpayer has not claimed and will not claim a tax credit under Section [59-7-614](#) for electricity used to meet the requirements of this section; and

(v) the taxpayer obtains a written certification from the office in accordance with Subsection (3).

(b) (i) Subject to Subsections (2)(b)(ii) and (iii), a tax credit under this section is equal to the product of:

(A) \$0.12; and

(B) the number of kilograms of hydrogen produced during the taxable year.

(ii) A taxpayer may not receive a tax credit under this section for more than 5,600 metric tons of hydrogen per taxable year.

(iii) A taxpayer is eligible to claim a tax credit under this section for production occurring during a period of 48 months beginning with the month in which the hydrogen production system is placed in commercial service.

(3) (a) Before a taxpayer may claim a tax credit under this section, the taxpayer shall obtain a written certification from the office.

(b) The office shall issue a taxpayer a written certification if the office determines that:

(i) the taxpayer meets the requirements of this section to receive a tax credit; and

(ii) the hydrogen production system with respect to which the taxpayer seeks to claim a tax credit:

(A) has been completely installed; and

(B) is safe, reliable, efficient, and technically feasible to ensure that the hydrogen production system uses the state's nonrenewable energy resources in an appropriate and economic manner.

(c) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the office may make rules for determining whether a hydrogen production system meets the requirements of Subsection (3)(b)(ii).

(d) A taxpayer that obtains a written certification from the office shall retain the

certification for the same time period a person is required to keep books and records under
Section 59-1-1406.

(e) The office shall submit to the commission an electronic list that includes:

(i) the name and identifying information of each taxpayer to which the office issues a
written certification; and

(ii) for each taxpayer:

(A) the amount of the tax credit listed on the written certification; and

(B) the date the hydrogen production system was installed.

(4) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the
commission may make rules to address the certification of a tax credit under this section.

(5) A tax credit under this section is in addition to any tax credits provided under the
laws or rules and regulations of the United States.

Section 3. Section 59-10-1106 is amended to read:

**59-10-1106. Refundable renewable energy systems tax credits -- Definitions --
Certification -- Rulemaking authority.**

(1) As used in this section:

(a) "Active solar system" means the same as that term is defined in Section
59-10-1014.

(b) "Biomass system" means the same as that term is defined in Section 59-10-1014.

(c) "Commercial energy system" means the same as that term is defined in Section
59-7-614.

(d) "Commercial enterprise" means the same as that term is defined in Section
59-7-614.

(e) [(i)] "Commercial unit" means the same as that term is defined in Section 59-7-614.

[(ii) Notwithstanding Subsection (1)(c)(i):]

[(A) with respect to an active solar system used for agricultural water pumping or a
wind system, each individual energy generating device is considered to be a commercial unit;
or]

392 ~~[(B) if an energy system is the building or structure that a claimant, estate, or trust uses~~
393 ~~to transact business, a commercial unit is the complete energy system itself.]~~

394 (f) "Direct use geothermal system" means the same as that term is defined in Section
395 59-10-1014.

396 (g) "Geothermal electricity" means the same as that term is defined in Section
397 59-10-1014.

398 (h) "Geothermal energy" means the same as that term is defined in Section 59-10-1014.

399 (i) "Geothermal heat pump system" means the same as that term is defined in Section
400 59-10-1014.

401 (j) "Hydroenergy system" means the same as that term is defined in Section
402 59-10-1014.

403 (k) "Hydrogen production system" means the same as that term is defined in Section
404 59-7-614.

405 ~~[(k)]~~ (l) "Office" means the Office of Energy Development created in Section
406 63M-4-401.

407 ~~[(H)]~~ (m) "Passive solar system" means the same as that term is defined in Section
408 59-10-1014.

409 ~~[(m)]~~ (n) "Principal recovery portion" means the same as that term is defined in Section
410 59-10-1014.

411 ~~[(n)]~~ (o) "Wind system" means the same as that term is defined in Section 59-10-1014.

412 (2) A claimant, estate, or trust may claim an energy system tax credit as provided in
413 this section against a tax due under this chapter for a taxable year.

414 (3) (a) Subject to the other provisions of this Subsection (3), a claimant, estate, or trust
415 may claim a refundable tax credit under this Subsection (3) with respect to a commercial
416 energy system if:

417 (i) the commercial energy system does not use:

418 (A) wind, geothermal electricity, solar, or biomass equipment capable of producing a
419 total of 660 or more kilowatts of electricity; or

420 (B) solar equipment capable of producing 2,000 or more kilowatts of electricity;
421 (ii) the claimant, estate, or trust purchases or participates in the financing of the
422 commercial energy system;
423 (iii) (A) the commercial energy system supplies all or part of the energy required by
424 commercial units owned or used by the claimant, estate, or trust; or
425 (B) the claimant, estate, or trust sells all or part of the energy produced by the
426 commercial energy system as a commercial enterprise;
427 ~~[(iv) the commercial energy system is completed and placed in service on or after~~
428 ~~January 1, 2007; and]~~
429 (iv) the claimant, estate, or trust has not claimed and will not claim a tax credit under
430 Subsection (6) for hydrogen production using electricity for which the claimant, estate, or trust
431 claims a tax credit under this Subsection (3); and
432 (v) the claimant, estate, or trust obtains a written certification from the office in
433 accordance with Subsection ~~[(6)]~~ (7).
434 (b) (i) Subject to Subsections (3)(b)(ii) through ~~[(v)]~~ (iv), the tax credit is equal to 10%
435 of the reasonable costs of the commercial energy system.
436 (ii) A tax credit under this Subsection (3) may include installation costs.
437 (iii) A claimant, estate, or trust ~~[may claim]~~ is eligible to claim a tax credit under this
438 Subsection (3) for the taxable year in which the commercial energy system is completed and
439 placed in service.
440 ~~[(iv) A tax credit under this Subsection (3) may not be carried forward or carried back.]~~
441 ~~[(v)]~~ (iv) The total amount of tax credit a claimant, estate, or trust may claim under this
442 Subsection (3) may not exceed \$50,000 per commercial unit.
443 (c) (i) Subject to Subsections (3)(c)(ii) and (iii), a claimant, estate, or trust that is a
444 lessee of a commercial energy system installed on a commercial unit may claim a tax credit
445 under this Subsection (3) if the claimant, estate, or trust confirms that the lessor irrevocably
446 elects not to claim the tax credit.
447 (ii) A claimant, estate, or trust described in Subsection (3)(c)(i) may claim as a tax

credit under this Subsection (3) only the principal recovery portion of the lease payments.

(iii) A claimant, estate, or trust described in Subsection (3)(c)(i) may claim a tax credit under this Subsection (3) for a period that does not exceed seven taxable years after the ~~[date]~~ day on which the lease begins, as stated in the lease agreement.

(4) (a) Subject to the other provisions of this Subsection (4), a claimant, estate, or trust may claim a refundable tax credit under this Subsection (4) with respect to a commercial energy system if:

(i) the commercial energy system uses wind, geothermal electricity, or biomass equipment capable of producing a total of 660 or more kilowatts of electricity;

(ii) (A) the commercial energy system supplies all or part of the energy required by commercial units owned or used by the claimant, estate, or trust; or

(B) the claimant, estate, or trust sells all or part of the energy produced by the commercial energy system as a commercial enterprise;

~~[(iii) the commercial energy system is completed and placed in service on or after January 1, 2007; and]~~

(iii) the claimant, estate, or trust has not claimed and will not claim a tax credit under Subsection (6) for hydrogen production using electricity for which the claimant, estate, or trust claims a tax credit under this Subsection (4); and

(iv) the claimant, estate, or trust obtains a written certification from the office in accordance with Subsection ~~[(6)]~~ (7).

(b) (i) Subject to ~~[Subsections]~~ Subsection (4)(b)(ii) ~~[and (iii)]~~, a tax credit under this Subsection (4) is equal to the product of:

(A) 0.35 cents; and

(B) the kilowatt hours of electricity produced and used or sold during the taxable year.

(ii) A claimant, estate, or trust is eligible to claim a tax credit under this Subsection (4) ~~[may be claimed]~~ for production occurring during a period of 48 months beginning with the month in which the commercial energy system is placed in commercial service.

~~[(iii) A tax credit under this Subsection (4) may not be carried forward or back.]~~

(c) A claimant, estate, or trust that is a lessee of a commercial energy system installed on a commercial unit may claim a tax credit under this Subsection (4) if the claimant, estate, or trust confirms that the lessor irrevocably elects not to claim the tax credit.

(5) (a) Subject to the other provisions of this Subsection (5), a claimant, estate, or trust may claim a refundable tax credit as provided in this Subsection (5) if:

(i) the claimant, estate, or trust owns a commercial energy system that uses solar equipment capable of producing a total of 660 or more kilowatts of electricity;

(ii) (A) the commercial energy system supplies all or part of the energy required by commercial units owned or used by the claimant, estate, or trust; or

(B) the claimant, estate, or trust sells all or part of the energy produced by the commercial energy system as a commercial enterprise;

(iii) the claimant, estate, or trust does not claim a tax credit under Subsection (3);

~~[(iv) the commercial energy system is completed and placed in service on or after January 1, 2015; and]~~

(iv) the claimant, estate, or trust has not claimed and will not claim a tax credit under Subsection (6) for hydrogen production using electricity for which a taxpayer claims a tax credit under this Subsection (5); and

(v) the claimant, estate, or trust obtains a written certification from the office in accordance with Subsection ~~[(6)]~~ (7).

(b) (i) Subject to ~~[Subsections]~~ Subsection (5)(b)(ii) ~~[and (iii)]~~, a tax credit under this Subsection (5) is equal to the product of:

(A) 0.35 cents; and

(B) the kilowatt hours of electricity produced and used or sold during the taxable year.

(ii) A claimant, estate, or trust is eligible to claim a tax credit under this Subsection (5) ~~[may be claimed]~~ for production occurring during a period of 48 months beginning with the month in which the commercial energy system is placed in commercial service.

~~[(iii) A tax credit under this Subsection (5) may not be carried forward or carried back.]~~

(c) A claimant, estate, or trust that is a lessee of a commercial energy system installed

on a commercial unit may claim a tax credit under this Subsection (5) if the claimant, estate, or trust confirms that the lessor irrevocably elects not to claim the tax credit.

(6) (a) A claimant, estate, or trust may claim a refundable tax credit as provided in this Subsection (6) if:

(i) the claimant, estate, or trust owns a hydrogen production system;

(ii) the hydrogen production system is completed and placed in service on or after January 1, 2022;

(iii) the claimant, estate, or trust sells as a commercial enterprise, or supplies for the claimant's, estate's, or trust's own use in commercial units, the hydrogen produced from the hydrogen production system;

(iv) the claimant, estate, or trust has not claimed and will not claim a tax credit under Subsection (3), (4), or (5) for electricity used to meet the requirements of this Subsection (6); and

(v) the claimant, estate, or trust obtains a written certification from the office in accordance with Subsection (7).

(b) (i) Subject to Subsections (6)(b)(ii) and (iii), a tax credit under this Subsection (6) is equal to the product of:

(A) \$0.12; and

(B) the number of kilograms of hydrogen produced during the taxable year.

(ii) A claimant, estate, or trust may not receive a tax credit under this Subsection (6) for more than 5,600 metric tons of hydrogen per taxable year.

(iii) A claimant, estate, or trust is eligible to claim a tax credit under this Subsection (6) for production occurring during a period of 48 months beginning with the month in which the hydrogen production system is placed in commercial service.

~~[(6)]~~ (7) (a) Before a claimant, estate, or trust may claim a tax credit under this section, the claimant, estate, or trust shall obtain a written certification from the office.

(b) The office shall issue a claimant, estate, or trust a written certification if the office determines that:

(i) the claimant, estate, or trust meets the requirements of this section to receive a tax credit; and

(ii) ~~[the office determines that]~~ the commercial energy system or the hydrogen production system with respect to which the claimant, estate, or trust seeks to claim a tax credit:

(A) has been completely installed;

(B) is a viable system for saving or producing energy from renewable resources; and

(C) is safe, reliable, efficient, and technically feasible to ensure that the commercial energy system or the hydrogen production system uses the state's renewable and nonrenewable resources in an appropriate and economic manner.

(c) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the office may make rules:

(i) for determining whether a commercial energy system or a hydrogen production system meets the requirements of Subsection ~~[(6)]~~ (7)(b)(ii); and

(ii) for purposes of a tax credit under Subsection (3), establishing the reasonable costs of a commercial energy system, as an amount per unit of energy production.

(d) A claimant, estate, or trust that obtains a written certification from the office shall retain the certification for the same time period a person is required to keep books and records under Section 59-1-1406.

(e) The office shall submit to the commission an electronic list that includes:

(i) the name and identifying information of each claimant, estate, or trust to which the office issues a written certification; and

(ii) for each claimant, estate, or trust:

(A) the amount of the tax credit listed on the written certification; and

(B) the date the commercial energy system or the hydrogen production system was installed.

~~[(7)]~~ (8) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the commission may make rules to address the certification of a tax credit under this

section.

~~[(8)]~~ (9) A tax credit under this section is in addition to any tax credits provided under the laws or rules and regulations of the United States.

~~[(9)]~~ (10) A purchaser of one or more solar units that claims a tax credit under Section 59-10-1024 for the purchase of the one or more solar units may not claim a tax credit under this section for that purchase.

Section 4. Section 59-10-1113 is enacted to read:

59-10-1113. Refundable tax credit for nonrenewable hydrogen production system.

(1) As used in this section:

(a) "Commercial enterprise" means the same as that term is defined in Section 59-7-626.

(b) "Commercial unit" means the same as that term is defined in Section 59-7-626.

(c) "Hydrogen production system" means the same as that term is defined in Section 59-7-626.

(d) "Office" means the Office of Energy Development created in Section 63M-4-401.

(2) (a) A claimant, estate, or trust may claim a refundable credit under this section if:

(i) the claimant, estate, or trust owns a hydrogen production system;

(ii) the hydrogen production system is completed and placed in service on or after January 1, 2022;

(iii) the claimant, estate, or trust sells as a commercial enterprise, or supplies for the claimant's, estate's, or trust's own use in commercial units, the hydrogen produced from the hydrogen production system;

(iv) the claimant, estate, or trust has not claimed and will not claim a tax credit under Section 59-10-1106 for electricity used to meet the requirements of this section; and

(v) the taxpayer obtains a written certification from the office in accordance with Subsection (3).

(b) (i) Subject to Subsections (2)(b)(ii) and (iii), a tax credit under this section is equal to the product of:

588 (A) \$0.12; and

589 (B) the number of kilograms of hydrogen produced during the taxable year.

590 (ii) A claimant, estate, or trust may not receive a tax credit under this section for more
591 than 5,600 metric tons of hydrogen per taxable year.

592 (iii) A claimant, estate, or trust is eligible to claim a tax credit under this section for
593 production occurring during a period of 48 months beginning with the month in which the
594 hydrogen production system is placed in commercial service.

595 (3) (a) Before a claimant, estate, or trust may claim a tax credit under this section, the
596 claimant, estate, or trust shall obtain a written certification from the office.

597 (b) The office shall issue a claimant, estate, or trust a written certification if the office
598 determines that:

599 (i) the claimant, estate, or trust meets the requirements of this section to receive a tax
600 credit; and

601 (ii) the hydrogen production system with respect to which the claimant, estate, or trust
602 seeks to claim a tax credit:

603 (A) has been completely installed;

604 (B) is safe, reliable, efficient, and technically feasible to ensure that the hydrogen
605 production system uses the state's nonrenewable energy resources in an appropriate and
606 economic manner.

607 (c) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the
608 office may make rules for determining whether a hydrogen production system meets the
609 requirements of this Subsection (3)(b)(ii).

610 (d) A claimant, estate, or trust that obtains a written certification from the office shall
611 retain the certification for the same time period a person is required to keep books and records
612 under Section [59-1-1406](#).

613 (e) The office shall submit to the commission an electronic list that includes:

614 (i) the name and identifying information of each claimant, estate, or trust to which the
615 office issues a written certification; and

616 (ii) for each claimant, estate, or trust:
617 (A) the amount of the tax credit listed on the written certification; and
618 (B) the date the hydrogen production system was installed.
619 (4) In accordance with Title 63G, Chapter 3, Utah Administrative Rulemaking Act, the
620 commission may make rules to address the certification of a tax credit under this section.
621 (5) A tax credit under this section is in addition to any tax credits provided under the
622 laws or rules and regulations of the United States.
623 Section 5. **Effective date.**
624 This bill takes effect for a taxable year beginning on or after January 1, 2022.