## CERTIFICATION OF ENROLLMENT

## ENGROSSED SUBSTITUTE HOUSE BILL 2645 (Corrected Copy)

66th Legislature 2020 Regular Session

Passed by the House March 10, 2020 Yeas 94 Nays 3

Speaker of the House of Representatives

Passed by the Senate March 7, 2020 Yeas 48 Nays 1

## CERTIFICATE

I, Bernard Dean, Chief Clerk of the House of Representatives of the State of Washington, do hereby certify that the attached is ENGROSSED SUBSTITUTE HOUSE BILL 2645 as passed by the House of Representatives and the Senate on the dates hereon set forth.

Chief Clerk

President of the Senate

Approved

FILED

Secretary of State State of Washington

Governor of the State of Washington

ENGROSSED SUBSTITUTE HOUSE BILL 2645 (Corrected Copy)

AS AMENDED BY THE SENATE

Passed Legislature - 2020 Regular Session

## State of Washington 66th Legislature 2020 Regular Session

**By** House Environment & Energy (originally sponsored by Representatives Smith, Eslick, and Pollet)

READ FIRST TIME 02/07/20.

1 AN ACT Relating to the photovoltaic module stewardship and 2 takeback program; amending RCW 70.355.010; creating a new section; 3 and providing an expiration date.

4 BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF WASHINGTON:

5 Sec. 1. RCW 70.355.010 and 2017 3rd sp.s. c 36 s 12 are each 6 amended to read as follows:

7 (1) ((**Findings.**)) The legislature finds that a convenient, safe, 8 and environmentally sound system for the recycling of photovoltaic 9 modules, minimization of hazardous waste, and recovery of 10 commercially valuable materials must be established. The legislature 11 further finds that the responsibility for this system must be shared 12 among all stakeholders, with manufacturers financing the takeback and 13 recycling system.

14 (2) ((**Definitions.** For purposes of this section the following 15 definitions apply:)) The definitions in this subsection apply 16 throughout this section unless the context clearly requires 17 otherwise.

(a) "Consumer electronic device" means any device containing an
 electronic circuit board that is intended for everyday use by
 individuals, such as a watch or calculator.

21 (b) "Department" means the department of ecology.

1 (c) <u>"Distributor" means a person who markets and sells</u>
2 photovoltaic modules to retailers in Washington.

3 <u>(d) "Installer" means a person who assembles, installs, and</u>
4 maintains photovoltaic module systems.

5 <u>(e)</u> "Manufacturer" means any person in business or no longer in 6 business but having a successor in interest who, irrespective of the 7 selling technique used, including by means of distance or remote 8 sale:

9 (i) Manufactures or has manufactured a photovoltaic module under 10 its own brand names for <u>use or</u> sale in or into this state;

(ii) Assembles or has assembled a photovoltaic module that uses parts manufactured by others for <u>use or</u> sale in or into this state under the assembler's brand names;

14 (iii) Resells or has resold in or into this state under its own 15 brand names a photovoltaic module produced by other suppliers, 16 including retail establishments that sell photovoltaic modules under 17 their own brand names;

18 (iv) Manufactures or has manufactured a cobranded photovoltaic 19 module product for <u>use or</u> sale in or into this state that carries the 20 name of both the manufacturer and a retailer;

(v) Imports or has imported a photovoltaic module into the United States that is <u>used or</u> sold in or into this state. However, if the imported photovoltaic module is manufactured by any person with a presence in the United States meeting the criteria of manufacturer under ((-(-+))) <u>(e)(i)</u> through ((-(+))) <u>(vi)</u> of this subsection, that person is the manufacturer;

(vi) Sells at retail a photovoltaic module acquired from an importer that is the manufacturer and elects to register as the manufacturer for those products; or

30 (vii) Elects to assume the responsibility and register in lieu of 31 a manufacturer as defined under ((<del>(b)</del>)) <u>(e)</u>(i) through (vi) of this 32 subsection.

((<del>(d)</del>)) <u>(f)</u> "Photovoltaic module" means the 33 smallest nondivisible, environmentally protected assembly of photovoltaic 34 cells or other photovoltaic collector technology and ancillary parts 35 intended to generate electrical power under sunlight, except that 36 "photovoltaic module" does not include a photovoltaic cell that is 37 a consumer electronic device for which it provides 38 part of 39 electricity needed to make the consumer electronic device function. 40 "Photovoltaic module" includes but is not limited to

1 interconnections, terminals, and protective devices such as diodes 2 that: 3 (i) Are installed on, connected to, or integral with buildings; 4 ((<del>or</del>)) (ii) Are used as components of freestanding, off-grid, power 5 6 generation systems, such as for powering water pumping stations, 7 electric vehicle charging stations, fencing, street and signage lights, and other commercial or agricultural purposes; or 8 (iii) Are part of a system connected to the grid or utility 9 service. 10 ((<del>(e)</del>)) (g) "Predecessor" means an entity from which a 11 manufacturer purchased a photovoltaic module brand, its warranty 12 obligations, and its liabilities. "Predecessor" does not include 13 entities from which a manufacturer purchased only manufacturing 14 equipment. 15 16 (h) "Rare earth element" means lanthanum, cerium, praseodymium, 17 neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, lutetium, yttrium, 18 19 or scandium. ((((f))) (i) "Reuse" means any operation by which a photovoltaic 20 21 module or a component of a photovoltaic module changes ownership and 22 is used for the same purpose for which it was originally purchased. 23 ((<del>(q)</del>)) <u>(j)</u> "Retailer" means a person who offers photovoltaic modules for retail sale in the state through any means including, but 24 25 not limited to, remote offerings such as sales outlets, catalogs, or 26 internet sales. (k) "Stewardship plan" means the plan developed by a manufacturer 27 or its designated stewardship organization for a self-directed 28 29 stewardship program. ((((h))) (1) "Stewardship program" means the activities conducted 30 31 by a manufacturer or a stewardship organization to fulfill the 32 requirements of this chapter and implement the activities described 33 in its stewardship plan. (3) ((**Program guidance, review, and approval.**)) The department 34 must develop guidance for a photovoltaic module stewardship and 35 takeback program to guide manufacturers in preparing and implementing 36 a self-directed program to ensure the convenient, safe, and 37 environmentally sound takeback and recycling of photovoltaic modules 38 39 and their components and materials. By January 1, 2018, the 40 department must establish a process to develop guidance for

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photovoltaic module stewardship plans by working with manufacturers, stewardship organizations, and other stakeholders on the content, review, and approval of stewardship plans. The department's process must be fully implemented and stewardship plan guidance completed by July 1, 2019.

6 (4) ((Stewardship organization as agent of manufacturer.)) A 7 stewardship organization may be designated to act as an agent on of a manufacturer or manufacturers in operating and 8 behalf implementing the stewardship program required under this chapter. Any 9 stewardship organization that has obtained such designation must 10 11 provide to the department a list of the manufacturers and brand names 12 that the stewardship organization represents within sixty days of its designation by a manufacturer as its agent, or within sixty days of 13 14 removal of such designation.

(5) ((Stewardship plans.)) Each manufacturer must prepare and submit a stewardship plan to the department by the later of ((January 17 1, 2020)) July 1, 2022, or within thirty days of its first sale of a photovoltaic module in or into the state.

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(a) A stewardship plan must, at a minimum:

(i) Describe how manufacturers will finance the takeback and recycling system, and include an adequate funding mechanism to finance the costs of collection, management, and recycling of photovoltaic modules and residuals sold in or into the state by the manufacturer with a mechanism that ensures that photovoltaic modules can be delivered to takeback locations without cost to the last owner or holder;

27 (ii) Accept all <u>of their</u> photovoltaic modules sold in or into the 28 state after July 1, 2017;

(iii) Describe how the program will minimize the release of hazardous substances into the environment and maximize the recovery of other components, including rare earth elements and commercially valuable materials;

(iv) Provide for takeback of photovoltaic modules at locations that are within the region of the state in which ((the)) their photovoltaic modules were used and are as convenient as reasonably practicable, and if no such location within the region of the state exists, include an explanation for the lack of such location;

38 (v) Identify how relevant stakeholders, including consumers, 39 installers, building demolition firms, and recycling and treatment 40 facilities, will receive information required in order for them to

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properly dismantle, transport, and treat the end-of-life photovoltaic modules in a manner consistent with the objectives described in (a) (iii) of this subsection;

4 (vi) Establish performance goals, including a goal for the rate
5 of combined reuse and recycling of collected photovoltaic modules as
6 a percentage of the total weight of photovoltaic modules collected,
7 which rate must be no less than eighty-five percent.

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(b) A manufacturer must implement the stewardship plan.

9 (c) A manufacturer may periodically amend its stewardship plan. 10 The department must approve the amendment if it meets the 11 requirements for plan approval outlined in the department's guidance. 12 When submitting proposed amendments, the manufacturer must include an 13 explanation of why such amendments are necessary.

14 (6) ((Plan approval.)) The department must approve a stewardship 15 plan if it determines the plan addresses each element outlined in the 16 department's guidance.

(7) ((Annual report.)) (a) Beginning April 1, ((2022)) 2024, and by April 1st in each subsequent year, a manufacturer, or its designated stewardship organization, must provide to the department a report for the previous calendar year that documents implementation of the plan and assesses achievement of the performance goals established in subsection (5) (a) (vi) of this section.

(b) The report may include any recommendations to the department or the legislature on modifications to the program that would enhance the effectiveness of the program, including management of program costs and mitigation of environmental impacts of photovoltaic modules.

(c) The manufacturer or stewardship organization must post thisreport on a publicly accessible web site.

30 (8) ((Enforcement.)) Beginning ((January 1, 2021)) July 1, 2023, 31 no manufacturer, distributor, retailer, or installer may sell or 32 offer for sale a photovoltaic module in or into the state unless the 33 manufacturer of the photovoltaic module has submitted to the 34 department a stewardship plan and received plan approval.

35 <u>(a)</u> The department must send a written warning to a manufacturer 36 that is not participating in a plan. The written warning must inform 37 the manufacturer that it must submit a plan or participate in a plan 38 within thirty days of the notice. The department may assess a penalty 39 of up to ten thousand dollars <u>upon a manufacturer</u> for each sale <u>that</u> 40 <u>occurs in or into the state</u> of a photovoltaic module ((<u>in or into the</u> 1 state that occurs)) for which a stewardship plan has not been 2 submitted by the manufacturer and approved by the department after 3 the initial written warning. A manufacturer may appeal a penalty 4 issued under this section to the superior court of Thurston county 5 within one hundred eighty days of receipt of the notice.

6 (b) The department must send a written warning to a distributor, retailer, or installer that sells or installs a photovoltaic module 7 made by a manufacturer that is not participating in a plan. The 8 written warning must inform the distributor, retailer, or installer 9 that they may no longer sell or install a photovoltaic module if a 10 stewardship plan for that brand has not been submitted by the 11 12 manufacturer and approved by the department within thirty days of the 13 notice.

14 (9) ((**Fee.**)) The department may collect a flat fee from participating manufacturers to recover costs associated with the plan 15 16 guidance, review, and approval process described in subsection (3) of 17 this section. Other administrative costs incurred by the department 18 for program implementation activities, including stewardship plan 19 review and approval, enforcement, and any rule making, may be recovered by charging every manufacturer an annual fee calculated by 20 dividing department administrative costs by the manufacturer's pro 21 22 rata share of the Washington state photovoltaic module sales in the 23 most recent preceding calendar year, based on best available information. The sole purpose of assessing the fees authorized in 24 25 this subsection is to predictably and adequately fund the department's costs of administering the photovoltaic module recycling 26 27 program.

28 (10) ((Account.)) The photovoltaic module recycling account is 29 created in the custody of the state treasurer. All fees collected from manufacturers under this chapter must be deposited in the 30 31 account. Expenditures from the account may be used only for 32 administering this chapter. Only the director of the department or the director's designee may authorize expenditures from the account. 33 The account is subject to the allotment procedures under chapter 34 43.88 RCW, but an appropriation is not required for expenditures. 35 Funds in the account may not be diverted for any purpose or activity 36 other than those specified in this section. 37

38 (11) ((**Rule making.**)) The department may adopt rules as necessary 39 for the purpose of implementing, administering, and enforcing this 40 chapter.

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1 (12) ((National program.)) In lieu of preparing a stewardship plan and as provided by subsection (5) of this section, 2 а manufacturer may participate in a national program for the 3 convenient, safe, and environmentally sound takeback and recycling of 4 photovoltaic modules and their components and materials, if 5 6 substantially equivalent to the intent of the state program. The department may determine substantial equivalence if it determines 7 that the national program adequately addresses and fulfills each of 8 the elements of a stewardship plan outlined in subsection (5)(a) of 9 this section and includes an enforcement mechanism reasonably 10 11 calculated to ensure a manufacturer's compliance with the national 12 program. Upon issuing a determination of substantial equivalence, the department must notify affected stakeholders 13 including the 14 manufacturer. If the national program is discontinued or the department determines the national program is no longer substantially 15 16 equivalent to the state program in Washington, the department must 17 notify the manufacturer and the manufacturer must provide a stewardship plan as described in subsection (5)(a) of this section to 18 19 the department for approval within thirty days of notification.

NEW SECTION. Sec. 2. (1) Subject to the availability of amounts appropriated for this specific purpose, the Washington State University extension energy program must convene a photovoltaic module recovery, reuse, and recycling work group to review and provide recommendations on potential methodologies for the management of end-of-life photovoltaic modules, including modules from utility scale solar projects.

(2) The membership of the work group convened under this sectionmust include, but is not limited to, members representing:

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(a) A manufacturer of photovoltaic modules located in the state;

30 (b) A manufacturer of photovoltaic modules located outside the 31 state;

32 (c) A national solar industry group;

33 (d) Solar installers in the state;

34 (e) A utility scale solar project;

35 (f) A nonprofit environmental organization with expertise in 36 waste minimization;

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- (g) A city solid waste program;

38 (h) A county solid waste program;

1 (i) An organization with expertise in photovoltaic module 2 recycling;

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(j) A community-based environmental justice group; and

4 (k) The department of ecology.

5 (3) Participation in the work group convened under this section 6 is strictly voluntary and without compensation or reimbursement.

7 (4) The Washington State University extension energy program must 8 submit its findings and recommendations in a final report to the 9 legislature and the governor, consistent with RCW 43.01.036, by 10 December 1, 2021.

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(5) This section expires January 31, 2022.

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