

HOW THIS INFORMATION WILL BE USED

This packet was compiled to provide a complete documentation requirements reference guide for manufacturers pursuing product certification under the Living Product Challenge version 1.1. This document should be used in conjunction with the [Living Product Challenge standard](#) as well as the [Handprinting Guide](#), in order to have a complete understanding of the program requirements and detailed explanation of the Handprinting Imperatives.

As the owner of the Living Product Challenge, the International Living Future Institute (ILFI) will request specific information from manufacturers to determine compliance with Living Product Challenge Imperatives. This data will be shared in a limited capacity with the product's assigned Assessor, a third party who is responsible for performing document review and onsite verification. When on site, the Assessor may look for additional complementary information to support the product's claims in the written documentation. Therefore, additional records may be required if further proof of compliance is needed.

ILFI may use and retain non-sensitive product documentation as deemed necessary to further the educational mission of the organization, and may share information contained within the documentation with members of the Living Product Challenge Community (Community) or the general public. ILFI retains the right to use and/or publish essays written by the product team (Team) and will attribute the content to the members of the Team as directed.

By submitting photographs and/or 3D renderings of the product and manufacturing facility, the manufacturer grants ILFI royalty-free use of these image(s) in promotional material, such as web-based, printed, and other presentation formats, to support the Living Product Challenge or one of its auxiliary programs. ILFI will use the image(s) in a manner consistent with a Creative Commons "[Attribution-No Derivative Works 3.0 United States](#)" license.

The manufacturer will be expected to share documentation information about the product's performance period on the publicly accessible ILFI website Case Study Database.

ILFI has an ongoing goal to reduce the amount of documentation needed to demonstrate compliance with the Living Product Challenge Imperatives. Over time, items may be deleted or slightly modified to reflect this effort. Manufacturers may elect to submit information using the most current guidelines at the time of product registration or any subsequent releases.

LIVING PRODUCT SCOPE

Manufacturers may pursue the Living Product Challenge under one of two certification paths: Product Share or Whole Facility. The Product Share path allows a manufacturer to certify a product, or products, that require(s) only a limited fraction of a facility's production capacity. When the total dollar value of the facility's Living Product(s) output represents less than 75% of the dollar value of the facility's total output, the manufacturer may use the Product Share certification path or the Whole Facility certification path.

When the dollar value of the output of Living Product(s) exceeds 75% of the dollar value of the facility's total output, a manufacturer must pursue the Whole Facility compliance path,

LPC 1.1 Documentation Requirements

which requires that the entire manufacturing facility meet the on-site requirements of the Living Product Challenge. Whole Facility compliance simplifies the certification process, since Product Share of impact does not need to be calculated for each product individually. Every product produced at a facility that has pursued the Whole Facility path will be understood to be Net Positive for Water, Energy and Waste.

A Product Share of Net Positive Energy, Water and Waste includes all process energy used to make the product as well as its share of facility lighting, heating and cooling. Worker water usage, waste treatment, and facility stormwater management are excluded from the Product Share certification requirements.

Manufacturers initially pursuing the Product Share certification path may expand the number of Living Products to eventually include the Whole Facility over time.

HOW TO USE THIS DOCUMENT

CERTIFICATION SUMMARY MATRIX

There are three separate certification tiers available within the Living Product Challenge.

- Living Product Certification indicates that a product has achieved all twenty Imperatives within the Living Product Challenge.
- Living Product Petal Certification requires the achievement of at least three of the seven Petals, one of which must be the Water, Energy or Materials Petal; in addition, each of the four Core Imperatives must be achieved.
- Living Product Imperative Certification requires the achievement of at least seven of the twenty Imperatives, including the four Core Imperatives.

DOCUMENTATION CATEGORIES

To document compliance with targeted Imperatives, a product must submit Basic Documentation and, if applicable, Exception Documentation.

- All Basic Documentation relevant to targeted Imperatives is required.
- Exception Documentation is required in the event that a product team uses an Exception. Exception Documentation may replace some, though typically not all, Basic Documentation. As the Living Product Challenge is implemented on the ground, new exceptions may be necessary to address unique circumstances for a particular product or manufacturers. The creation of new exceptions will be determined by the Institute on a case-by-case basis in collaboration with manufacturers and added to the documentation requirements.

In some cases, the documentation required for Whole Facility certification exceeds that required for Product Share certification alone. Whole Facility documentation is separated under dedicated headings throughout.

EXCEPTIONS

Established exceptions are listed in the appendix to this document. New exceptions will be

LPC 1.1 Documentation Requirements

created and added to the documentation requirement based upon new and unique circumstances as the Living Product Challenge is applied in practice.

CERTIFICATION PROCESS

Manufacturers will produce initial product certification documents that allow them to achieve certification on a certain level. Imperatives will either be considered to be Achieved, Pending or Denied by the LPC.

Continuous improvement is encouraged and manufacturers should continue to add additional imperatives as they further align their products and production with the certification, install systems to meet site production needs, and provide additional data.

Living Products must be recertified every 3 years. At that time, the product(s) will be reassessed for its potential to become a full Living Product.

ILFI and the Assessor will perform yearly check-ins ensure a product is still in compliance with the certification requirements.

GENERAL REQUIREMENTS

G-01 [General Product Information Summary](#)

The Team should provide one document that includes all of the information below:

- Product Description
- Statement of Intent and List of Targeted Imperatives
- Point of Contact
- 12-month performance period start date for the start date of performance based Imperatives.

G-02 [General Product Documentation](#)

In addition, the following general documentation should be submitted:

- Conceptual Drawings
- At least five color 3D renderings or photographs of the product and of the manufacturing facility that can be used at the Institute's discretion to publicize the product and the program.

CASE STUDY QUESTIONNAIRE

Manufacturers are required to submit a complete Case Study Questionnaire at the end of certification. The questionnaire is provided to manufacturers during documentation collection.

PLACE PETAL

I01 RESPONSIBLE PLACE AND HABITAT IMPACTS

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I01-1

Site Documentation

For facilities constructed after 2007, provide photographs, maps or other evidence demonstrating the facility was not constructed on a greenfield.

Aerial photos or maps clearly displaying:

- All areas of operation (final manufacturing facilities) and adjacent properties to a minimum distance of 1,000 feet beyond the property line
- The land use on all sides of the property or properties
- All sensitive ecological habitats on or near the area(s) of operation

I01-2

EcoRegion Identification

Using the WWF EcoRegion WildFINDER tool, provide a brief narrative identifying the reference EcoRegion for the final manufacturing location, as well as a brief description of the EcoRegion and what makes it unique. *See: <https://www.worldwildlife.org/science/wildfinder/>*

I01-3

IUCN List of Species

An itemized list, exported from IUCN's search function, of every Endangered (EN) or Critically Endangered (CR) species within the relevant area(s) of operations (i.e. manufacturing facility or facilities). Please also provide a photo of each species and a brief description. Produce one such list for each location of final manufacture seeking certification. *See: <http://www.iucnredlist.org/search>*

I01-4

Site Narrative

For each final manufacturing site, provide a manufacturer statement detailing:

- The extent to which manufacturing operations affect each species on I01-3 IUCN List of Species
- The extent to which manufacturing operations affect the function of the reference Ecosystem identified in I01-3
- Written confirmation from an executive or product manager within the manufacturing organization that none of the product's material inputs are derived from endangered species.

LPC 1.1 Documentation Requirements

EXCEPTION DOCUMENTATION

EXCEPTION		I01-a Conservation Documentation	I01-b Context Docs	I01-c GRI Sustainability Report
I01-E1	Greenfields Developed before December 31, 2007		x	
I01-E2	Third Party Certification	x		
I01-E3	GRI Environmental Indicators			x

I01-a

Conservation Documentation

Official documents, from the organization responsible for the protection or interpretation of the sensitive ecological habitat, that demonstrate the product's compliance with Exception requirements.

I01-b

Context Documentation

Dated maps and/or photos demonstrating the facility site meets Exception requirements. This may include photographs, maps or other evidence that indicate that the facility was constructed and operational before 2007.

I01-c

GRI Reporting

In lieu of requirement I01-4, Site Narrative, and in order to support I01-1 Site Documentation, manufacturers may submit Indicators EN11 and EN12 of their GRI Sustainability Report documentation.

I02 HABITAT EXCHANGE

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I02-1

Profit Statement

A statement detailing the gross profit generated by the sale of the product through the 12-month performance period, as well as projected profit over the next three years. Donations must scale with sale of the product each year; however, the manufacturer is only required to have donated enough for the first year of sales data by the time of certification.

I02-2

Receipt

Receipt for the Habitat Exchange donation from either the Living Future Exchange program or the selected Approved Land Trust reflecting the required offset amount.

I02-3

Program Selection Narrative

Brief description of the program purpose, how it functions and why it was selected for the donation.

LPC 1.1 Documentation Requirements

- 102-4 [Legal Documents \(if following the Approved Land Trust path\)](#)
An official letter or document from the Land Trust stating the terms of the offset and confirming that the selected Land Trust is approved.

EXCEPTION DOCUMENTATION

None at this time.

WATER PETAL

103 NET POSITIVE WATER

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

- 103-1 [Water Narrative](#)
A 1-2 page narrative shall be provided written by the water designers, engineers or facility manager fully describing water system design and compliance with the Imperative. The narrative shall include the following:
- A description of all the process water needed to create the product as well as the overall facility water demands.
 - A description of how the Product Share of water usage is calculated, if applicable.
 - A description of how the Product Share or, if applicable, the entire facility's water usage is being met via on-site resources. This should clearly display the amount of water being used in the performance year and demonstrate that on-site methods account for 100% of the water usage.
 - System schematics and flow diagram, including contributing system(s) and major components, their function and location and the water treatment method(s) associated with each
 - An annual water balance diagram showing general water flow and balance of product share or, if applicable, the overall facility and site hydrology.
- 103-2 [LCA Model](#)
Acceptable documentation for the LCA includes: a third party verified Environmental Product Declaration (EPD); or an LCA performed in accordance with a relevant PCR to ISO 14044 submitted using the LPC LCA Template or other approved format that is valid at the time of certification.
- 103-3 [Hotspot Identification](#)
The following data shall be provided, documenting the water consumption hotspots of the product's life cycle:
- A table of process contributions to total life cycle water consumption, listing at least the top 5 processes ranked in terms of water consumption.
 - A table of cradle-to-gate water consumption impacts for inputs to the final manufacturing

LPC 1.1 Documentation Requirements

step or process, listing at least the top 5 inputs ranked in terms of embodied water consumption.

- A brief 1-2 paragraph narrative that interprets the main results and identifies the 5 main drivers of the product's cradle-to-gate water consumption footprints.

I03-4

3-Year Water Plan

A three-year plan that describes how the manufacturer plans to reduce the product's water Footprint and create a water Handprint greater than the reduced Footprint over the next three years. For both Enterprise and Product Lifecycle Related Handprints the assessment should be done using a spreadsheet documenting input assumptions and reference to relevant product category rules when available and/or appropriate.

For Enterprise and Product-Related Handprints, the following information will be provided:

- A spreadsheet documenting all input assumptions and the resulting handprint impact calculations.
- A brief narrative explaining the Handprinting actions and their impacts.

I03-5

Water Usage Table

Total actual water use from monthly readings throughout the 12-month occupancy period from meter(s) or other onsite tracking systems that clearly record the amount of water used from each applicable supply source.

LPC 1.1 Documentation Requirements

Table 1. Water Usage Table

	1	2	3	4	5	6	7	8	9	10	11	12	Total
Month (fill in)													
Total Product Process Water Usage (Gal/mo.)													
Total Facility Water Usage													
Rainwater Captured													
Groundwater/Surface Water used													
Municipally-Supplied Potable Water (if allowed as Exception)													
Other (describe):													
Net Product Share of Water Consumption													
Net Facility Water Consumption													

103-6 **Photographs**
 Photographs of the systems, particularly portions that will be hidden from view at time of audit due to completion of construction.

ADDITIONAL DOCUMENTATION FOR WHOLE FACILITY COMPLIANCE

103-7 **Stormwater Calculations**
 Stormwater calculations by the project engineer demonstrating Imperative requirements for working in harmony with natural water flows, based on a minimum ten-year storm.

103-8 **Statement of non-connection to utility**
 A signed statement, written by the Owner, stating that the facility is not connected to a municipal potable water supply or sanitary sewer.

103-9 **Bio-solids Disposal Documents**
 Evidence of appropriate use of bio-solids and liquids within 100-mile radius of the facility

EXCEPTION DOCUMENTATION FOR WHOLE FACILITY COMPLIANCE

These exceptions are only applicable to the Whole Facility path. Manufacturers that use Exceptions require additional documentation shown in the table below.

LPC 1.1 Documentation Requirements

EXCEPTION		I03-a Narrative Statement	I03-b Meter Data & Calculations	I03-c Design Docs	I03-d Appeal Docs
I03-E1	Municipal Potable Water Supply		x	x	x
I03-E2	Municipal Water for Fire Protection			x	
I03-E3	Chlorine Disinfection			x	x
I03-E5	Municipal Sewer Overflow Connection	x		x	x

I03-a [Narrative Statement](#)

Signed narrative statement making a clear case that the product is eligible for the Exception and how it has met requirements.

I03-b [Meter Data & Calculations](#)

Meter data and /or calculations as needed to show compliance with Exception requirements.

I03-c [Design Documents](#)

Design documents, such as project manual excerpts, drawings or cutsheets, showing product meets Exception requirements.

I03-d [Appeals Documentation](#)

Documentation of the team’s effort to comply with requirements despite regulatory barriers. Team should include:

- The regulatory statute or code that hinders product compliance.
- Summary of all potential appeals and outcomes.
- Written appeal documents and response showing the decision(s) from regulatory authority.

ENERGY PETAL

I04 NET POSITIVE ENERGY

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I04-1 [Energy Narrative](#)

A 1-2 page narrative describing the energy system, written by the energy designers, engineers or facility manager. The narrative should include the following:

LPC 1.1 Documentation Requirements

- A description of all the energy needed to create the product and the overall facility energy demands.
- A description of how the Product Share of energy usage is calculated and renewable energy is used to provide 105% of energy needs if the Product Share path is taken, or a description of how the whole facility energy usage is calculated and renewable energy is used to provide 105% of the entire facility energy needs for the Whole Facility approach.
- A schematic drawing of the system.
- Description of all subsystems of the energy using and producing systems, including all areas listed in the IO4-6 Energy Table.

IO4-2 Renewable Energy Certificates

Documentation demonstrating the manufacturer owns the Renewable Energy Certificates for the renewable energy claims. This should include the number of RECs purchased, the cost of purchase, and a demonstration that this purchase accounts for a minimum of 105% of the on-site energy usage in the performance year.

IO4-3 LCA Model

Acceptable documentation for the LCA includes: a third party verified Environmental Product Declaration (EPD); or an LCA performed in accordance with ISO 14044 submitted using the LPC LCA Template or other approved format that is valid at the time of certification.

IO4-4 Hotspot Identification

The following data shall be provided, documenting the fossil energy consumption hotspots of the product's life cycle:

- A table of process contributions to total life cycle energy consumption, listing at least the top 5 processes ranked in terms of energy consumption.
- A table of cradle-to-gate energy consumption impacts for inputs to the final manufacturing step or process, listing at least the top 5 inputs ranked in terms of embodied energy consumption.
- A brief one- to two-page narrative that interprets the results and identifies the five main drivers of the product's cradle-to-gate fossil energy consumption footprints.

IO4-5 3-Year Energy Plan

A three-year plan that describes how the manufacturer plans to reduce the product's energy Footprint and create a energy Handprint greater than the reduced Footprint over the next three years. For both Enterprise and Product Lifecycle Related Handprints the assessment should be done using a spreadsheet documenting input assumptions and references to relevant product category rules when available and/or appropriate.

For Enterprise and Product Lifecycle Related Handprints, the following information will be provided:

- A spreadsheet documenting all input assumptions and the resulting handprint impact calculations.
- A brief narrative explaining the Handprinting actions and their impacts.

IO4-6 Photographs

Photographs of the systems, particularly portions that will be hidden from view at time of audit due to completion of construction or lack of access to auditors.

LPC 1.1 Documentation Requirements

I04-7

Energy Bills

Utility bills for a continuous 12-month period, beginning with the designated start date of the performance period.

If the product is not connected to a utility, or is sub-metered from a utility meter serving a larger area, and therefore has no energy bills, the manufacturer must write and sign a letter substantiating that this is the case, in conjunction with the sub-metered data.

I04-8

Energy Usage and Production Table

Completed Energy Usage Table with monthly data from the 12-month performance period, from meter(s), other onsite tracking systems or web-link to an online mechanism that clearly records energy produced and consumed (e.g., total energy generated; total energy use by subsystem including simulated/designed demand if available).

Table Two: Energy Usage (kwh)

Month	1	2	3	4	5	6	7	8	9	10	11	12	Total Annual
Process Energy Used													
Total Facility Energy													
Product Share of Facility Energy													
Total Renewable Energy Produced													
Sub-metering data if available (List)													

EXCEPTION DOCUMENTATION

Manufacturers that use Exceptions require additional documentation. The table below shows which Exceptions require which forms of documentation.

EXCEPTION		I04-a Narratives	I04-b Metering data	I04-c Technical Docs	I04-d Photographs
I04-E1	Pre-existing Infrastructure	x	x		x
I04-E2	Photovoltaic Array Ownership			x	
I04-E3	Specialty Combustion	x			

LPC 1.1 Documentation Requirements

I04-E4	Existing Buildings Sub-metering	x			
I04-E5	Shared/3 rd Party Arrangements		x	x	
I04-E6	Campus Setting		x		
I04-E7	District Energy System		x		
I04-E8	Scale Jumping for Energy Intensive Processes			x	
I04-E9	Government REC Sales			x	

I04-a [Additional Narrative](#)

A narrative describing the facility's need for the Exception, the approach to, and implementation of, the alternative solution, and compliance with Exception requirements.

I04-b [Metering Documentation](#)

Metering documentation or data showing compliance with Exception requirements.

I04-c [Technical Documents](#)

Legal, financial or contract documents showing compliance with Exception requirements.

I04-d [Photographs](#)

Photographs showing compliance with Exception requirements, including images of all components that will be changed from an existing state, or hidden by the completion of the performance period.

HEALTH & HAPPINESS PETAL

I05 TRANSPARENT MATERIAL HEALTH

CORE DOCUMENTATION

Core Documentation outlined below is required for all products pursuing the Living Product Challenge at any level, but alone will not result in achievement of the Transparent Material Health Imperative. Basic Documentation outlined in the next section is required for products pursuing achievement of this Imperative.

I05-1 [Material Health Inventory](#)

The manufacturer must provide a Material Health Inventory for each chemical present in the final product at over 100ppm, as identified in I07 Red List. Acceptable documentation includes:

- Completed Material Health Inventory Tab in the LPC Product Inventory Table identifying the GreenScreen List Translator score for each intentionally used substance, sorted by hazard bin.
- HPD with a content inventory to 100ppm with all substances characterized, screened and identified.

LPC 1.1 Documentation Requirements

BASIC DOCUMENTATION

- Basic Documentation is required for all products pursuing achievement of this Imperative unless otherwise noted.

I05-2

Transparent Material Health Reports

Documentation that the product is free of risk from exposure to Carcinogens, Mutagens or Reprotoxics (CMRs) and Persistent Bioaccumulative Toxics (PBTs), using the 3rd Party Verified ingredient inventory obtained in Imperative 07 Red List. An LPC Transparent Material Health Report may include a corrective actions plan with ILFI-approved timeline for any changes required as a result of assessment. Acceptable documentation includes:

- A complete LPC Transparent Material Health Report completed by an ILFI-approved GreenScreen practitioner or consultant.

For initial certification, the manufacturer is required to assess a minimum of 95% of the ingredients present in the final product at over 100ppm, allowing for 5% of the product to be unassessed. At the time of recertification, the manufacturer must have assessed 100% of the product content present at over 100ppm.

OR

Cradle to Cradle Product Certification at the V2 Gold or V3 Silver level and above or Cradle to Cradle Material Health Certificate at the V3 Silver level and above

I05-3

Polymer Composition Data

Manufacturers using the LPC Transparent Material Health Report as documentation must also provide the following information for all polymers in the product:

- Polymer manufacturer
- Monomer composition
- Monomer residual levels
- Polymer molecular weight.

OR

Cradle to Cradle Product Certification at the V2 Gold or V3 Silver level and above or Cradle to Cradle Material Health Certificate at the V3 Silver level and above

I05-4

Process Chemicals Documentation

For each process chemical used in the production of the product at the final manufacturing facility, documentation must be provided confirming that each process chemical is Red List Free. Acceptable Documentation Includes:

- SDS representing 100% of the ingredients in a Product.
- HPD representing 100% of the ingredients in a Product.
- Disclosure letter from a supplier confirming the product is free of Red List ingredients along with an MSDS Sheet or listing of ingredient names and CASRN.

If no process chemicals are used in the manufacturing process, a letter from the final manufacturing facility will suffice.

LPC 1.1 Documentation Requirements

OR

Cradle to Cradle Product Certification at the V2 Gold or V3 Silver level and above or Cradle to Cradle Material Health Certificate at the V3 Silver level and above

OPTIONAL ADDITIONAL DOCUMENTATION

- I05-5 [Material Health Assessment Reports](#)
Copies of any valid, certified GreenScreen assessment reports

EXCEPTION DOCUMENTATION

None at this time.

I06 HUMAN THRIVING

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

- I06-1 [OSHA Confirmation or Equivalent](#)
Written confirmation from the manufacturer that no deaths or serious injuries occurred during the twelve-month performance period based on Occupational Safety and Health Administration (OSHA) or international equivalent.
- I06-2 [Human Thriving Narrative](#)
A 1-2 report detailing compliance with Imperative requirements, including how the manufacturer provides sufficient and frequent human-nature interactions for the employees who are manufacturing the product to connect them with nature directly and encourage an active, healthy lifestyle.
- I06-3 [Human-Nature Interaction Documentation](#)
A facility floor plan showing the location of workstations and access to fresh air and daylight and a description of programs intended to encourage an active, healthy lifestyle.
- I06-4 [Employee Surveys](#)
The results from a survey, administered to employees, that seeks feedback on their ability to interact with nature during the workday and on the programs offered by the manufacturer intended to encourage an active, healthy lifestyle.
- Documentation should summarize the results of the survey and indicate how the manufacturer intends to use the results to improve worker health and happiness in the facility.

EXCEPTION DOCUMENTATION

LPC 1.1 Documentation Requirements

EXCEPTION		I05-a Manufacturer Statement	I08-c Safety Response Documentation
I06-E1	Appropriate Corrective Action	x	x

I05-a [Manufacturer Statement](#)
Provide a manufacturer statement describing the incident and describing actions and precautions taken to prevent similar issues in the future.

I05-b [Response Documentation](#)
Provide additional documentation demonstrating adequate response and preventative measures.

MATERIALS PETAL

I07 RED LIST

BASIC DOCUMENTATION

If the manufacturer already has a valid 3rd Party Verified Declare label for the product seeking certification, they are only required to complete I07-7 Packaging Information.

I07-1 [Product Inventory](#)
The manufacturer must provide a product inventory identifying all intentionally-added substances by weight in the final product present at 100ppm or greater. The inventory should contain the following data points:

- Identification of generic material
- Trade name of each generic material
- Chemical ingredients in each trade name material
- Percentage composition of each chemical ingredient in trade name material
- CASRN of each chemical ingredient
- Percent composition of each chemical ingredient in the final product
- Function/role of each chemical ingredient

Acceptable documentation includes:

- A complete LPC Product Inventory Table.
- HPD with a content inventory to 100ppm with all substances characterized by name and CASRN, screened and identified.

LPC 1.1 Documentation Requirements

107-2 Supply Chain Documentation

For each purchased material, the manufacturer must provide documentation listing the substances present in the final product at amounts greater than 100ppm. Polymer disclosures must include all residuals, additives and surfactants present at greater than 100ppm in the final product. Acceptable Documentation includes:

- SDS or MSDS representing 100% of the ingredients.
- HPD representing 100% of the ingredients.
- Supply Chain Disclosure Letter from each supplier listing the ingredient names and CASRN for either all intentionally-added ingredients present at 100ppm or greater in the final product.

107-3 Purchase Orders

Copies of purchase orders are required for each supplier to validate that the materials supplied are purchased by the product manufacturer.

107-4 Supplier Contact Information

Contact name, phone number and email address must be submitted for each for supplier.

107-5 Product VOC data

Wet-applied Products Only:

Manufacturer-supplied VOC content data in g/L.

107-6 VOC Emissions Certification

A certificate of CDPH Compliance (or equivalent standard).

All building products that have the potential to emit Volatile Organic Compounds (VOCs) and are intended for installation within the building envelope must supply a laboratory certificate of compliance with CDPH v1.1-2010 Standard Method requirements or other conformant product certifications. All building products to which CDPH v1.1-2010 is applicable that do not supply a laboratory certificate of compliance or conformant product certification will be listed as 'Declared' regardless of ingredient content.

Conformant certifications include:

- SCS Indoor Advantage Gold, EC 10.2 Standard Addendum
- FloorScore, EC 10.2 Standard Addendum
- Collaborative for High Performance Schools (CHPS), Procedures and Standards for Product Inclusion Version
- NSF 332
- UL Greenguard Gold, UL 2818 and UL 2821

Other certifications may be submitted for evaluation. Please provide an explanation of their conformance with CDPH testing methods for evaluation.

107-7 Packaging Documentation

Letter from the manufacturer stating that the product packaging is free of Red List chemicals and materials and that it does not pose a threat to marine, bird or animal life.

LPC 1.1 Documentation Requirements

EXCEPTION DOCUMENTATION

For a full list of current exceptions for Declare, please review the Declare Manufacturers Guide.

EXCEPTION		I07-a Proprietary Ingredients Letter	I07-b ROH Compliance Documentation
I07-E1	Proprietary Ingredients	x	
I07-E2	Small Electrical Components		x

I07-a

[Proprietary Ingredients Letter](#)

A letter from the supplier attesting that proprietary ingredients are not on the Red List, including a Screen Shot of the GreenScreen List Translator score for each intentionally-added proprietary ingredient present in the final product at or above 100ppm.

I07-b

[ROHS Compliance Documentation](#)

ROHS Compliance certificate or manufacture statement attesting that small electrical products meet the ROHS guidelines.

I08 LIVING ECONOMY SOURCING

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I08-1

[Living Sourcing Table](#)

Documentation should demonstrate, for one product unit:

- Each purchased material by cost
- Distance of each material from final manufacturing site
- Percentage of each purchased material within each specified radius to demonstrate compliance with I08 Imperative requirements in the Standard.

I08-2

[Supporting documentation](#)

Documents stating supplier location information for each tracked material.

LPC 1.1 Documentation Requirements

EXCEPTION DOCUMENTATION

EXCEPTION		I08-a GRI Reporting	I08-b Manufacturer Narrative
I08-E1	Local Engagement for Global Supply Chains	x	
I08-E1	Local Engagement for Global Supply Chains		x

I08-a

GRI Reporting

In lieu of requirement I08-1 and I08-2, manufacturers may submit their GRI Sustainability Report; specifically, Indicators SO1, SO9 and SO10, and Standard Disclosures 4.14-4.17, Stakeholder Engagement.

I08-b

Manufacturer Narrative

Brief narrative written by the manufacturer describing their engagement of the local community, and evidence of their commitment to supporting the local economy.

I09 RESPONSIBLE INDUSTRY

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I09-1

Relevant Certifications

Documents demonstrating that the manufacturer has obtained the relevant certifications demonstrating that the product's material inputs are responsibly sourced per the requirements of I09 Responsible Industry.

Products that use wood-based materials or timber, including for all final product packaging uses:

- Receipts referencing FSC-certified wood acquisition and final chain of custody numbers
- Receipts from the seller/broker of all salvaged wood procurements

Products that use agricultural inputs:

- USDA (or international equivalent) organic certification

Products that use potential conflict minerals:

- The unique Smelter ID(s), established by the Conflict Free Sourcing Initiative, that corresponds to the smelter or smelters that provide the product's mineral ingredients
- Receipts from the seller/broker of all mineral procurements

I09-2

3PV Declare Label

The Declare ID for the 3rd Party Verified product.

EXCEPTION DOCUMENTATION

EXCEPTION		I09-a Manufacturer Statement	I09-b Due Diligence
I09-E1	Commodity and Bio-based Products	x	
I09-E2	Alternative Forestry Certifications for Packaging		x

- I09-a** [Manufacturer Statement](#)
 Manufacturer may supply a brief statement indicating that currently no USDA or international equivalent certification exists for commodity and bio-based products.

- I09-b** [Due Diligence](#)
 The manufacturer must present documentation that indicates that obtaining FSC certification for the packaging is not feasible, and that 3 or more suppliers were contacted regarding FSC packaging.

I10 NET POSITIVE CLIMATE

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

- I10-1** [LCA Model](#)
 Acceptable documentation for the LCA includes: a third party verified Environmental Product Declaration (EPD); or an LCA performed in accordance with ISO 14044 submitted using the LPC LCA Template or other approved format that is valid at the time of certification.

- I10-2** [Hotspot Identification](#)
 The following data shall be provided, documenting the greenhouse gas (GHG) hotspots of the product’s life cycle:
 - A table of process contributions to total lifecycle GHG emissions, listing at least the top 5 processes ranked in terms of GHG emissions.
 - A table of cradle-to-gate GHG emissions for inputs to the final manufacturing step or process, listing at least the top 5 inputs ranked in terms of GHG emissions.
 - A brief narrative that interprets the results and identifies the 5 main drivers of the product’s cradle-to-gate carbon (GHG) footprints, and their relevance.

- I10-3** [3-Year Climate Plan](#)
 A three-year plan that describes how the manufacturer plans to reduce the product’s climate Footprint and create a energy Handprint greater than the reduced Footprint over the next three years. For both Enterprise and Product Lifecycle Related Handprints the assessment

LPC 1.1 Documentation Requirements

should be done using a spreadsheet documenting input assumptions and references to relevant product category rules when available and/or appropriate.

For Enterprise and Product Lifecycle Related Handprints, the following information will be provided:

- A spreadsheet documenting all input assumptions and the resulting handprint impact calculations.
- A brief narrative explaining the Handprinting actions and their impacts.

I10-4

Carbon Offset Receipts

Receipt from the Living Future Carbon Exchange or other carbon offset program as proof of purchase.

EXCEPTION DOCUMENTATION

None at time of issue.

I11 NET POSITIVE WASTE

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I11-1

Materials Conservation Management Plan

Completed Conservation Management Plan explaining how the manufacturer optimized materials in design, manufacture, use, and how they planned for source reduction of waste, as well as reduced waste at the product's end of life.

The Plan must contain a section devoted to packaging, demonstrating how the manufacturer achieved a reduction or elimination of packaging waste. Additionally, the section must detail compliance with the requirements of I11 Net Positive Waste.

The narrative must describe how the facility complies with diversion rates for either the product share, or, if applicable, the whole facility approach.

Manufacturers that have achieved ILFI-approved zero waste to landfill certifications for the final facility are considered to comply with the Imperative diversion rates for their entire facility.

ILFI-approved zero waste to landfill certifications include, but are not limited to:

- GreenCircle Certified Zero Waste to Landfill Certification

I11-2

Diversion Table

Completed waste diversion table, in Excel format, showing percentages of waste diverted (by weight) in each category (Metals; Paper + Cardboard; Soil + Biomass; All Others (combined weighted average)). The calculations must be based on tangible data that correlates to receipts provided.

LPC 1.1 Documentation Requirements

I11-3 **Diversion Documentation**
Copies of receipts, recycling percentage reports and provider names for all tipping fees, recyclers, and building materials salvage services. For the product-share pathway, this only applies to non-hazardous waste streams associated with the product pursuing certification. For the whole facility compliance path, this extends to all facility waste streams.

I11-4 **Photographs**
Photographs of specific designated on-site areas for managing waste, as well as of waste containers on-site, to prove less than 2% contamination in outgoing containers.

EXCEPTION DOCUMENTATION

None at this time.

I12 PRODUCT FIT TO USE

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I12-1 **Durability Statement**
A statement from the manufacturer affirming that the product is designed and tested to last as a useful, functioning product for at least the average lifetime for its product category, as documented in the Institute's online Product Life Database. Please include any relevant testing data.

Disposable or Single-Use Products Only:

A statement detailing the means by which 100% of the product will either:

- Biodegrade within five years
- Be fully compostable
- Be recycled within the country of intended use

EXCEPTION DOCUMENTATION

None at this time.

I13 USEFUL LIFE DISPOSAL

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

I13-1 **End-of-Life Narrative**
A narrative statement detailing how the product meets the requirements of I13 Useful Life Disposal.

LPC 1.1 Documentation Requirements

I13-2

List of Take-back Locations

A list of markets in which the product is sold and a list of corresponding locations of manufacturer take-back programs, if applicable.

EQUITY PETAL

I14 EQUITABLE PRODUCT ACCESS

BASIC DOCUMENTATION

I14-1

Calculations

Consumer Products Only

Calculations showing that the product's Annualized Purchase Price (APP) exceeds the relevant Product Category Share (PCS) of the income of the manufacturer's lowest paid employee. Documentation shall include specification of:

- The product lifetime
- The product selling price
- Income (hourly or annual) of the lowest paid employee
- Which personal consumption category (listed on the "Expenditures" tab of the Product Life Database workbook) the product corresponds to

I14-2

Affordable Product Offerings

Consumer Products

Active marketing (brochures, live web pages, or similar) apprising its employees that low-interest financing is available for products that bring their users total cost of ownership (TCO) benefits.

If the product does not bring TCO benefits, the manufacturer should offer the product at reduced rates that are realistically achievable for employees.

Building Products

Active marketing (brochures, live web pages, or similar) apprising affordable housing developers that the product is available at price parity to similar products.

EXCEPTION DOCUMENTATION

None at this time.

I15 RESPONSIBLE CO-PRODUCTS

BASIC DOCUMENTATION

- I15-1 [Roster of Companies](#)
The manufacturer must provide a comprehensive list of its ownership structure, including parent companies and subsidiaries (if applicable).
- I15-2 [Manufacturer Statement](#)
A statement that the manufacturer and its subsidiaries do not make, sell, or provide any of the goods and services listed in I15 Responsible Co-Products.
- I15-3 [Equitable Interest](#)
Organizations that offer loans or financing only:
Provide:
- A representative sampling of comparable offerings from market peers,
 - A statement of terms indicating interest rates offered for loans or financing, and
 - Justification, if applicable, for any amount or percentage in excess of the aggregate average of listed comparable offerings.

EXCEPTION DOCUMENTATION

None at time of issue.

I16 EQUITABLE INVESTMENT

BASIC DOCUMENTATION

- I16-1 [Profit Statement](#)
A statement detailing the gross profit generated by the sale of the product through the 12-month performance period.
- I16-2 [Offset Calculations](#)
A calculation demonstrating the amount that the manufacturer must donate to comply with I16 Equitable Investment.
- I16-3 [Program Selection Narrative](#)
Brief description of the program purpose, how it functions and why it was selected for the donation.
- I16-4 [Offset Receipt](#)
If not utilizing the Equity Living Future Exchange: evidence of payment for donation or offset (receipt, letter, etc) of the amount calculated in I16-2 Offset Calculations.

EXCEPTION DOCUMENTATION

None at time of issue.

I17 JUST ORGANIZATIONS

BASIC DOCUMENTATION

- I17-1 [JUST Label](#)
JUST label for the product manufacturer
- I17-2 [Advocacy Letters](#)
Copies of at least five letters to major suppliers advocating for their participation in JUST.

EXCEPTION DOCUMENTATION

None at time of issue.

BEAUTY PETAL

I18 POSITIVE HANDPRINTING

BASIC DOCUMENTATION

All Basic Documentation is required for all products unless noted otherwise.

- I18-1 [Impact Category Selection Narrative](#)
A 1-2 page narrative shall be provided, written by the applicant, describing the Handprinting impact category selected by the product team. The narrative shall include:
- Life cycle assessment (LCA) results for the product, showing Normalization results for a chosen life cycle impact assessment method. The Normalization results are used to provide a sense of the “materiality” or relevance of the selected impact category in relation to the product life cycle.
- I18-2 [Handprint Impact Assessment](#)
Documentation shall be provided that describes how the manufacturer has achieved a Handprint greater than the product Footprint for the selected impact category. For both Enterprise and Product Lifecycle Related Handprints the assessment should be done using a spreadsheet documenting input assumptions and references to relevant product category rules when available and/or appropriate.
- For Enterprise and Product Lifecycle Related Handprints, the following information will be provided:
- A spreadsheet documenting all input assumptions and the resulting handprint impact calculations.
 - A brief narrative explaining the Handprinting actions and their impacts.

EXCEPTION DOCUMENTATION

None at time of issue.

I19 BEAUTY + SPIRIT

BASIC DOCUMENTATION

I19-1

Beauty Narrative

A one- to two-page narrative written by the product designer that describes how the product meets the intent of the Imperative. The essay must be accompanied by photographs, diagrams and drawings that illustrate major ideas. The narrative should also describe:

- The product's potential to transform people's relationship to the natural world through the manufacturing process, design or use of the product
- How the product was informed by the natural world and if nature was used as model, mentor or measure, and/or biomimicry was used as an inspiration
- Evidence that the product's primary use will not further disconnect people from nature.

I19-2

Survey + Results

One or both of the following:

- Survey and results from customers. Survey must state the Imperative requirements, inquire of respondents whether they think the product has succeeded, and include additional questions related to the beauty of the product based on the designer's narrative. Survey respondents must comprise a representative sampling of product users. Surveys may be administered online or in person.
- Focus group feedback specifically detailing compliance with Imperative requirements.

I20 INSPIRATION + EDUCATION

BASIC DOCUMENTATION

I20-1

Case Study Questionnaire

All products: A complete ILFI Case Study Questionnaire, to be posted for public viewing on the ILFI website.

I20-2

Signage

Photo documentation of educational/interpretive signage installed in the facility that teaches visitors and occupants about the product and manufacturing facility and pursuit of Living Product Certification.

LPC 1.1 Documentation Requirements

- I20-3 [Open House](#)
Letter stating manufacturer intent to hold at least one annual “open day” to educate the public about the manufacturer, the facility and its achievements. This “open day” shall be publicized to the community at large.
- I20-4 [Website](#)
Educational web site (URL to be provided at submission) that shares information about the design, manufacture, and performance of the product. Performance metrics are encouraged to be included.
- I20-5 [Product Manual](#)
Product manual or instructions, including installation instruction (if applicable)
- I20-6 [Brochure](#)
A simple brochure describing the product’s design and environmental features, as well as any tips to optimize performance, if applicable.
- I20-7 [Optional Video](#)
An educational video describing the product’s environmental features.

EXCEPTION DOCUMENTATION

None at time of issue.

DEFINITIONS

Chemical Abstract Services Registration Number (CAS RN, CAS Registry Number, CAS Number)

A unique numerical identifier assigned by the Chemical Abstracts Service (www.cas.org) to every chemical described in the open scientific literature of elements, chemicals compounds, polymers and other substances (HPD, 2015).

Commodity Products

Commodities are homogenous goods that are traded in bulk on a commodity exchange. Commodity prices are subject to supply and demand; and therefore are determined by their market as a whole. These types of products include agricultural goods, lumber, metals and fuels.

Cradle to Cradle (C2C) Product Certification

C2C is a multi-attribute, third party certified product certification. The standard assesses products in five categories, namely Material Health, Material Reutilization, Renewable Energy & Carbon Management, Water Stewardship, and Social Fairness.

GreenScreen

Short for “GreenScreen for Safer Chemicals” (greenscreenchemicals.org), a method for comparative chemical hazard assessment. It is used to assess the inherent hazards of chemicals and their potential effect on human health and the environment. The foundation of the GreenScreen method is the Principles of Green Chemistry and the work of the US Environmental Protection Agency’s (EPA’s) Design for the Environment (DfE) and GHS hazard thresholds.

<http://www.greenscreenchemicals.org/method/method-documents>

GreenScreen List Translator

A chemical hazard assessment method developed by Clean Production Action that produces GreenScreen List Translator scores by compiling all GreenScreen Specified Lists (36 lists and over 450 list categories) and translates that information from the GreenScreen Hazard Criteria, where hazard classification levels (e.g. H or M or L) are assigned for each Hazard endpoint. GreenScreen Specified Lists are only a subset of the complete set of GreenScreen Hazard Criteria.

Health Product Declaration

Standard reporting format for product ingredients and identification of health hazards.

<http://www.hpdcollaborative.org>

Homogenous Material (“Material”)

A uniform solid, liquid or gas composed of one or more substances that cannot be mechanically disjointed, in principle. It may be a chemical formulation or compound; a substance of unknown or variable composition, complex reaction product, or biological material (UVCB); or a combination of the two. Coatings and finishes such as plating, powder coats, enamels, etc., are considered unique homogenous materials” (Clean Production Action, 2015).

Hotspot

A process that makes a major contribution to one or more life cycle impact categories for a product in its supply chain. For example, some upstream processes may be responsible for

LPC 1.1 Documentation Requirements

the bulk of the product's cradle-to-gate water footprint, and other processes may be responsible for the bulk of the product's energy or carbon footprints. These upstream processes are the best places to look for improvement opportunities, such as more efficient use of water or energy.

Intentionally Used Substance

Any chemical substance used in the production of the homogenous material, whether or not it is intended to remain in the manufacturer's finished product. Example include: monomers, reagents, catalysts, reactive and nonreactive additives, auxiliaries, processing aids and other process chemicals, or any other chemical substance that is used in the making the product, but may be present in reduced amounts (or not at all) in the finished product (i.e. it reacts, gets washed off, etc.)" (Clean Production Action, 2015).

Material Health Inventory

Hazard ratings associated with each ingredient present in the product inventory and sorted by their respective Hazard Bins (*see Definitions, Material Health Footprint*).

Pharos

A chemical and materials database and research tool that allows side-by-side comparison of products and chemical formulations. Pharos includes the ability to identify GreenScreen List Translator scores through inputting CAS Registry Numbers.

<http://www.pharosproject.net>

Product Inventory

"Inventory of all of the chemical substances present at greater than 100ppm within a final product" (Clean Production Action, 2015).

Process Chemicals

Process chemicals are defined as chemicals used in the manufacturing process in the final manufacturing facility that come into contact with the product pursuing certification. For example, surfactants, solvents and lubricants in the product manufacture are to be considered. General cleaning products used in the facility are not included.

Product

"A finished good composed of homogeneous materials that are in turn made up of chemical substances. A product may be made of one or more homogeneous materials. A product may also be organized into parts, which are in turn made up of one or more homogenous materials. A product may also function as part of another product" (HPD 2.0 Standard, 2015).

Renewable Energy

Energy generated through passive solar, photovoltaics, solar thermal, wind turbines, water-powered microturbines, direct geothermal or fuel cells powered by hydrogen generated from renewably powered electrolysis. Nuclear energy is not an acceptable option.

EXCEPTIONS

IMPERATIVE 01: RESPONSIBLE PLACE AND HABITAT IMPACTS

- I01-E1 **Greenfields Developed Before December 31, 2007**
Sites that were altered from a greenfield prior to 12/31/2007 are allowed.
- I01-E2 **Third-Party Certification**
Forest Stewardship Council Certification or similar demonstrating that the manufacturer imposes appropriate provisions to protect any endangered species that the manufacturing facilities may impinge upon.
- I01-E3 **GRI Environmental Indicators**
Manufacturers that already use GRI sustainability reporting are considered to comply with Site Documentation requirements, and may submit documentation of EN11 and EN12 in lieu of the written requirements of I01-4.

IMPERATIVE 03: NET POSITIVE WATER

- I03-E1 **Municipal Potable Water Supply**
If health or utility regulations require a facility to use municipal potable sources, it is allowed, but only for potable uses including sinks, faucets, janitorial uses, and showers. Non-potable uses such as toilet flushing, clothes washing, and equipment uses must use water sourced from the facility site. While it is not required, the manufacturer is encouraged to include full rainwater harvesting capacity in anticipation of future regulatory acceptance of additional rainwater use.

To use this Exception the manufacturer must exhaust all regulatory appeals short of legal appeals. In addition, the team must demonstrate through design drawings and calculations how the facility is designed to meet the requirement for 100% site-sourced water.
- I03-E2 **Municipal Water for Fire Protection**
A connection to a municipal water supply is allowed for fire protection systems, as long as the connection is dedicated only for fire protection, and does not supply water for any other uses.
- I03-E3 **Chlorine Disinfection**
Chlorine disinfection for potable water uses on facilities regulated as “public water systems” under the U.S. Safe Drinking Water Act (or equivalent regulations outside of the US) is allowed. The US EPA defines public water systems as those that have at least 15 service connections, or regularly serve at least 25 individuals. For these facilities, chlorine disinfection may be required for regulatory compliance. However, to use this Exception, the manufacturer must exhaust all regulatory appeals short of legal appeals. The chlorine added should be the minimum amount allowed by the code. In addition, the manufacturer must include and document point-of-use dechlorination with a 0.5 micron carbon block filter or other approved dechlorination method.
- I03-E4 **Municipal Sewer Overflow Connection**
If health or utility regulations require an overflow connection to the municipal sanitary sewer system, it is allowed if the team:
- Exhausts all regulatory appeals short of legal appeals

LPC 1.1 Documentation Requirements

- Installs a manual valve control that is designed to remain closed
- Provides a signed statement that the overflow connection was not used during the performance period

IMPERATIVE 04: NET POSITIVE ENERGY

IO4-E1

Pre-existing infrastructure

Manufacturers can take advantage of pre-existing photovoltaic (PV) arrays in certain limited circumstances. The renewable energy system can predate Product Certification if it supplies energy directly to the facility producing the Living Product. A renewable energy system on an adjacent facility cannot predate the facility that it is supplying energy to unless the system was planned with sufficient overcapacity in place to meet the building's energy demand. For example, a PV array might be installed ahead of building construction or as part of a district system, to take advantage of certain incentives or efficiencies of scale. This is allowed as long as the PV system was planned, designed and installed specifically to service the facility producing the Living Product. The manufacturer must provide:

- Photographs of the existing system
- A narrative signed by the owner confirming their approach and that the system was planned, designed and installed specifically to service the facility.

IO4-E2

Photovoltaic Array Ownership

Third-party ownership of a PV installation is allowed (assuming that it is feeding the facility directly) with a long-term lease agreement in place. The contract length must be a minimum of 15 years.

IO4-E3

Specialty Combustion

Combustion-based solutions for industrial processes are allowed. Each exception request must be submitted in writing to the Living Product Challenge team.

The manufacturer will need to provide the exception request submitted to the LPC team and the response.

IO4-E5

Shared/3rd party Arrangements

It is acceptable to place PV panels on the rooftops or other areas of adjacent properties and use the energy generated from these adjacent off-site sources to power the facility. Resources may only be attributed to one facility; they cannot be "double counted." The team must provide technical documents showing the facility contributed financially to the development of the renewable system, such as:

- Proof of purchase and maintenance agreements
- Third-party agreements to acquire the equipment and manage ongoing maintenance. The team must also submeter and track energy to show that the energy required for the facility is covered by the system, and attributed to only the facility.

IO4-E6

Campus Setting

A facility is allowed to connect to a campus grid as a Scale Jumping solution if the renewable energy allocated to the facility is not already in use by, or dedicated to, any other part of the campus. Resources may not be traded or "doubled counted." The team must still optimize energy performance and calculate the facility's Energy Use Intensity (EUI) to ensure that the facility is not using more than its share of the energy generated from the shared resource.

LPC 1.1 Documentation Requirements

In a single-owner campus setting, where the utility is feeding several aggregated services on site, it is permissible to connect the renewable energy technology directly to any of these services. Metering must clearly demonstrate that the technology installed to accommodate the facility's energy demand actually meets or exceeds that demand and is not already in use by, or dedicated to, any other part of the campus.

I04-E7 District Energy System

It is acceptable to utilize a District Energy System (DES) to offset thermal or electric energy used by the facility, as long as the team can document that the kWhs or BTUs being sent back to the DES (or electricity to the grid) are equal to the building's DES demand during the 12-month performance period. Waste heat capture for the facility from a DES is only allowed if the heat is not generated from combustion.

I04-E8 Scale Jumping for Energy Intensive Processes

Certain high-energy industrial processes such as melting glass and synthesizing chemicals have extremely high process energy that cannot be realistically supplied by on-site renewables. These types of manufacturers can Scale Jump by financially investing in the development of new regionally based renewable energy production, such as a new wind turbine or PV array through a Power Purchase Agreement (PPA), if the amount of energy produced by this system exceed the needs of the product share or whole facility energy demand. The manufacturer must document that the financial contribution to the PPA array can provide more than the product(s) share of energy consumption or the annual energy requirements of the whole facility.

I03-E9 Government REC Sales

Companies are allowed to sell their RECs (or other similar production incentives) only as part of a governmentally established program for achieving larger public policy objectives such as carbon reduction. In these cases, the RECs must be sold to a governmentally specified REC recipient and then REC purchase contract must specify that the RECs will be held (not re-sold) by the governmentally established recipient for a minimum of fifteen years in order to prevent double-counting the energy and carbon benefits.

Companies must provide the REC contract as I06-c Technical Documentation and highlight the renewable attribute language of that contract.

Product teams that take advantage of this exception for their on-site RECs must then purchase Green-e Climate Certified RECs in the amount necessary to cover the product share for the Certified Living Product (s) or the whole facility depending on the Living Product Scope.

IMPERATIVE 06: HUMAN THRIVING

I06-E1 Appropriate Corrective Action

In cases where a serious injury occurs associated with the product manufacture (resulting in lost days), the manufacturer may demonstrate that a root cause investigation was completed and adequate precaution put in place to prevent future injuries of a similar nature. This exception does not apply to deaths associated with product production during the performance period.

LPC 1.1 Documentation Requirements

IMPERATIVE 07: RED LIST

107-E1 Proprietary Ingredients

Due to market realities, manufacturers are typically allowed to withhold less than 1% of the product by both weight and volume.

107-E2 Small Electrical Components

Complex electrical or data products that are made up entirely of small electrical components, such as fire alarms, meters, sensors, thermostats and load break switches, do not need to be tracked for Red List. Instead, these products must meet the European Union's Restriction of the Use of Certain Hazardous Substances (RoHS) Directive, which establishes the following maximum concentration values for toxic chemicals tolerated by weight in homogeneous materials:

- Lead (0.1 %)
- Mercury (0.1 %)
- Cadmium (0.01 %)
- Hexavalent chromium (0.1 %)
- Polybrominated biphenyls (PBB) (0.1 %)
- Polybrominated diphenyl ethers (PBDE) (0.1 %)

Large electrical equipment, such as a PV panel, is not considered a small electrical component, but may be partially comprised of small electrical components. Manufacturers must still gather supporting data for the equipment housing and other major components, such as glass.

IMPERATIVE 08: LIVING ECONOMY SOURCING

108-E1 Local Impact Reporting

For some products with global supply chains, compliance with I08 Living Economy Sourcing distance range requirements may not be possible. Manufacturers in this situation may document their impact on the local economy, clearly demonstrating their support and engagement of the local community and businesses using existing sustainability reporting standards or other evidence.

IMPERATIVE 09: RESPONSIBLE INDUSTRY

109-E1 Bio-Based Commodity Products

For some bio-based commodity products, USDA organic certification is not currently available. These products are exempt from the I-09 Responsible Industry requirements for USDA organic certification for agriculture inputs, and should provide documentation of any alternative certifications held by the bio-based portion of the product.

109-E2 Alternative Forestry Certifications for Product Packaging

Where FSC certification for packaging is not feasible for manufacturers due to prohibitive cost or lack of availability, SFI certification will be accepted provided the manufacturer can show due diligence.