

The background of the slide is a green-tinted photograph of a modern building interior. On the left, there are concrete pillars and a wall. On the right, a large window looks out onto a lush green forest with many trees. The overall tone is professional and eco-friendly.

Responsible Sourcing:

How Can It Help Meet Green Building Goals?

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Director, Market Development – North America, Concrete Sustainability Council



- Education and Certifications
- Specs, Codes and Standards
- Business Development

www.concretenexus.com



The global certification system
for responsibly sourced ready-
mixed and precast concrete

www.csc.eco

What is Responsible Sourcing?



- Incorporates ethical, sustainable and socially conscious principles into sourcing, procurement and overall supply chain management practices
- Ensures business between a buyer and its suppliers is conducted in a manner that does not negatively impact society or the environment

Why should you care?



- Demonstrate leadership in sustainable manufacturing
- Meet LEED, Envision, other green building standards
- Contribute to sustainable construction practices



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Regional System Operators



- Promote the certification
- Share in revenue



Austria



Belgium



Germany



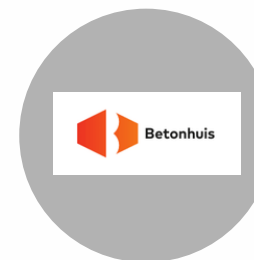
Italy



Latin America



MENA



Netherlands



Turkey

What plants can be CSC-certified?

Cement, Grinding & Blending (supplier certificate)



Concrete



Aggregates (supplier certificate)



What does the certification system reward?



PREREQUISITES

P1 Ethical and Legal Compliance

P2 Human Rights

P3 Indigenous People Rights

P4 Environmental and
Social Impact

P5 Traced Materials

P6 Vessels Evidence List

MANAGEMENT

M1 Sustainable Purchasing

M2 Environmental Management

M3 Quality Management

M4 Health & Safety Management

M5 Benchmark

ENVIRONMENTAL

E1 Life Cycle Impact

E2 Land Use

E3 Energy & Climate

E4 Air Quality

E5 Water

E6 Biodiversity

E7 Secondary Materials

E8 Transport

E9 Secondary Fuels

SOCIAL

S1 Local Community

S2 Health Product Information

S3 Occupational Health & Safety

S4 Labor Practices

ECONOMICS

B1 Local Economy

B2 Ethical Business

B3 Innovation

B4 Feedback Procedure

CHAIN OF CUSTODY

C1 Cement

C2 Aggregates

C3 Clinker

C4 Raw Aggregates Suppliers

C5 Ready Mix Concrete

C6 Steel Reinforcement

C7 Slag Supply to CSC Slag
Grinder

C8 Cement supply to CSC
Cement Blender

PREREQUISITE P2: Human Rights



Evidence: Public company commitment **OR** Declaration by senior management indicating:

- Compliance with OECD Guidelines for Multinational Enterprises **OR**
- UN Guiding Principles on Business and Human Rights
- Human rights due diligence process
- Processes for remediation of any adverse human rights impacts

ENVIRONMENTAL E2: Land Use (5 Points)



E2.01 Policy to avoid globally or nationally important sites (1 Point)

Evidence: Policy that prohibits operations in sites of potential land use conflict.

E2.02 Responsible land use (3 Points)

Evidence: Site layout showing the locations of main plant installations including roadways, storm drains, retention basins, etc.

E2.03 Protection from pollution (1 Point)

Evidence: Photographs where chemicals (including fuels) are stored to avoid contamination of the land.

SOCIAL S3: Occupation Health & Safety (20 Points)



S3.01 Risk analysis (3 Points)

Evidence: Risk analysis not older than 2 years (1 point), 1 year (+2 points).

S3.02 Preventive actions (2 Points)

Evidence: Photographs of new equipment, educational documents, PPE, etc.

S3.03 Occupational health and safety policy (2 Points)

Evidence: Copy of OHS policy on training, reporting incidents, insurance, etc.

S3.04 Availability of the OHS policy (1 Point)

Evidence: OHS policy is shared with every employee.

SOCIAL S3: Occupation Health & Safety, cont'd



S3.05 Access to medical treatment (1 Point)

Evidence: Availability of first aid AND one trained in first aid on each shift.

S3.06 Access to clean drinking water (1 Point)

Evidence: Photos showing access to clean drinking water and sanitation.

S3.07 Training on health and safety (2 Points)

Evidence: Minutes of training not older than two years.

S3.08 Recording of incidents (2 Points)

Evidence: Record/statistics not older than one and half years.

SOCIAL S3: Occupation Health & Safety, cont'd



S3.09 Corrective actions based upon incidents (2 Points)

Evidence: Documentation of corrective actions taken after an incident.

S3.10 No Lost Time Injuries (LTI) during the last three years (2 Points)

Evidence: Record/statistics that no LTI incidents in last three years.

S3.11 No fatality during the last three years (2 Points)

Evidence: Record/statistics that no fatal incidents in last three years



Quicksan

Prerequisites

P1: Does your organization ensure compliance with all applicable legislation?

☐

The organization must declare that all efforts have been made that may reasonably be expected of the organization in order to ensure that all of its operations comply with all applicable legal legislation, requirements, regulations, laws and by-laws.

☐

The organization must declare that all efforts have been made that may reasonably be expected of the organization and its suppliers in order to prevent corruption. The organization expects its suppliers to adhere to the highest standard of moral and ethical conduct, to respect local laws and not engage in any form of corrupt practices such as extortion, fraud, or bribery.



QUICKSCAN

rough estimate ambition

PRE-ASSESSMENT

self-assessment

ASSESSMENT

validated by assessor

CERTIFICATES

Sections

Prerequisites



Management



Environmental



Social



Economics



Chain of Custody



E2. Land Use

0 / 5 POINTS

Goal of the credit:

To ensure land is used in a rightful way, that impacts on recognized sites of natural culture are minimized, and that the land is reclaimed at the end of use in accordance with the planning consent or, if there are no requirements in the planning consent, reclaimed in a way that meets the approval of the local community.

☐ E2.1 Policy to avoid globally or nationally important sites (0/1 point)

Companies have a publicly available policy that prohibits operations in sites of potential land use conflict; the definition of these areas should follow accepted frameworks (see the annex).

☐ E2.2 Responsible land use (0/3 points)

The plant ensures the responsible use of land.

☐ E2.3 Protection from pollution (0/1 point)

The plant has facilities where chemicals (including fuels) are stored in conditions where any spillage, including accidental, does not contaminate the land.



QUICKSCAN

rough estimate ambition

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CERTIFICATES

Sections

Prerequisites ☐

Management ☐

Environmental ☒

Social ☐

Economics ☐

Chain of Custody ☐

< > E2. Land Use

☐ 0 / 5 POINTS

SAVE

ADD OR VIEW
EVIDENCE



Goal of the credit:

To ensure land is used in a rightful way, that impacts on recognized sites of natural culture are minimized, and that the land is reclaimed at the end of use in accordance with the planning consent or, if there are no requirements in the planning consent, reclaimed in a way that meets the approval of the local community.

☐ E2.01 Policy to avoid globally or nationally important sites (0 selected points / 1 available point) >

☐ E2.02 Responsible land use (0 selected points / 3 available points) >

☐ E2.03 Protection from pollution (0 selected points / 1 available point) >

SAVE

Four certification levels



35%



50%



65%



80%

Certification level is determined by

- Overall fulfillment rate (= score)
- Certified plants must fulfill all prerequisites
- Recertification in 3 years

Two voluntary add-ons to CSC-certificate:

- The R-module rewards maximizing recycled content
- The CO2-module for CO2-optimized concrete



OCTOBER 17, 2024

First CSC Certification in Ireland

Irish Cement Ltd has become the first company in Ireland to receive the Concrete Sustainability Council (CSC) certification. This milestone underscores Irish Cement's commitment to environmental stewardship, social responsibility, and [...]

[LEARN MORE](#)

Points Available in Each Category

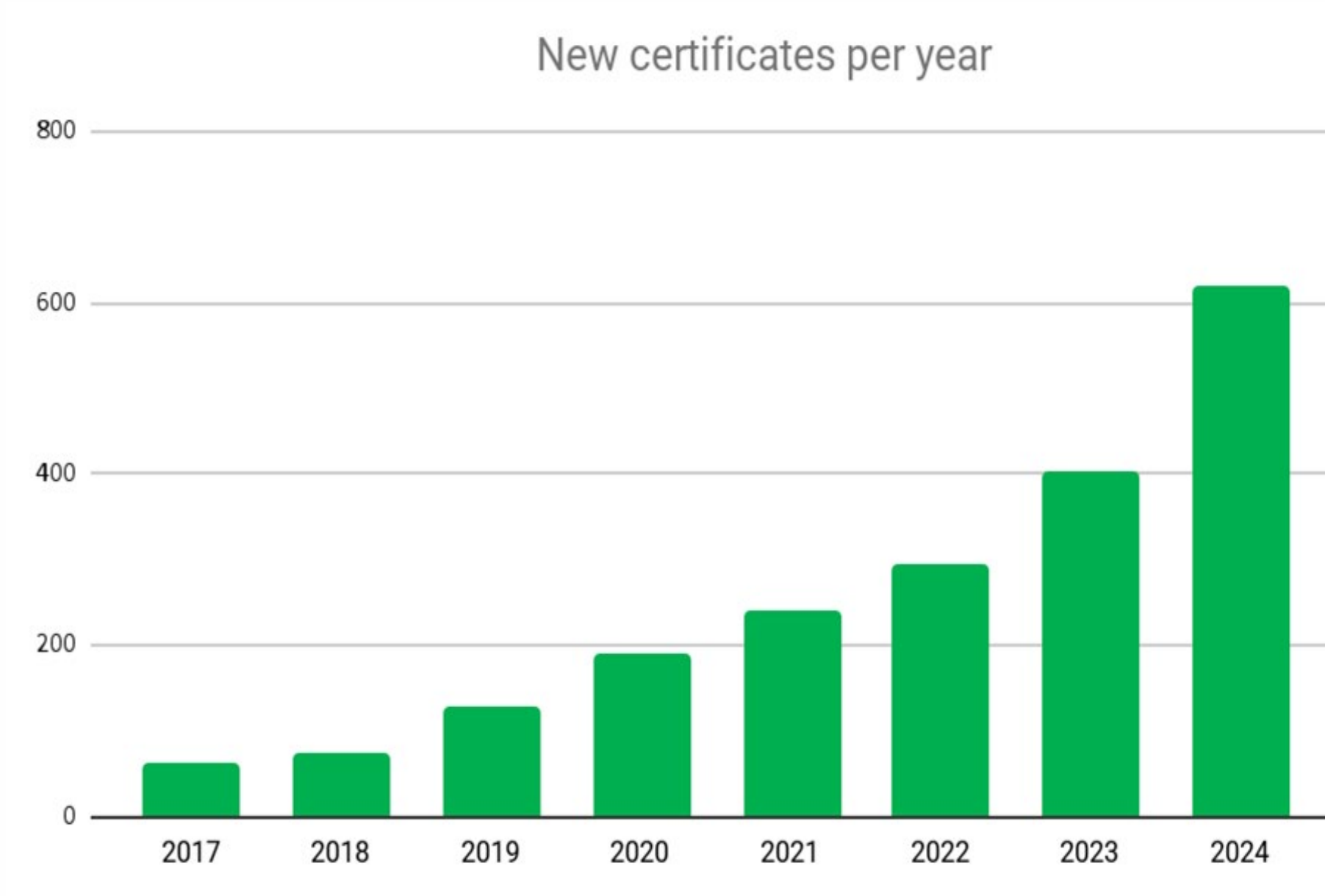


Calculation & weighting	Credits			Exemplary Performance		
	RMX	CEM	AGG	RMX	CEM	AGG
M - Management	29	29	29	0	0	0
E - Environment	73	134	69	2	1	1
S - Social	48	45	42	1	1	1
B - Economic	25	25	25	0	0	0
Total	175	233	165	3	2	2
	100%	100%	100%			

Ready-mix score:

$$score_{overall} = 60\% * score_{concrete}[\%age] + 25\% * score_{cement}[\%age] + 15\% * score_{aggregate}[\%age]$$

CSC growth



26



Countries

30+



Members

800+

Producers



2300+

Assessments



1500+

**Active
certificates**



**Committed to responsibly
sourced concrete**



Founded in 2016

9 Years of Growth



Recognition in Green Building Labels



LEED

Social Equity
within the Supply
Chain pilot credit



ENVISION

Sustainable
Procurement
Practices credit



**DESIGN FOR
FREEDOM**

Ethically sourced
materials



GREEN GLOBES

Product Producer
Responsibility
Credit (proposed)



BREEAM | UK

Responsible
Sourcing credit



DGNB | EU

Responsible
Sourcing credit



ÖGNI | Europe

Responsible
Sourcing credit



B.E.S.T | Turkey

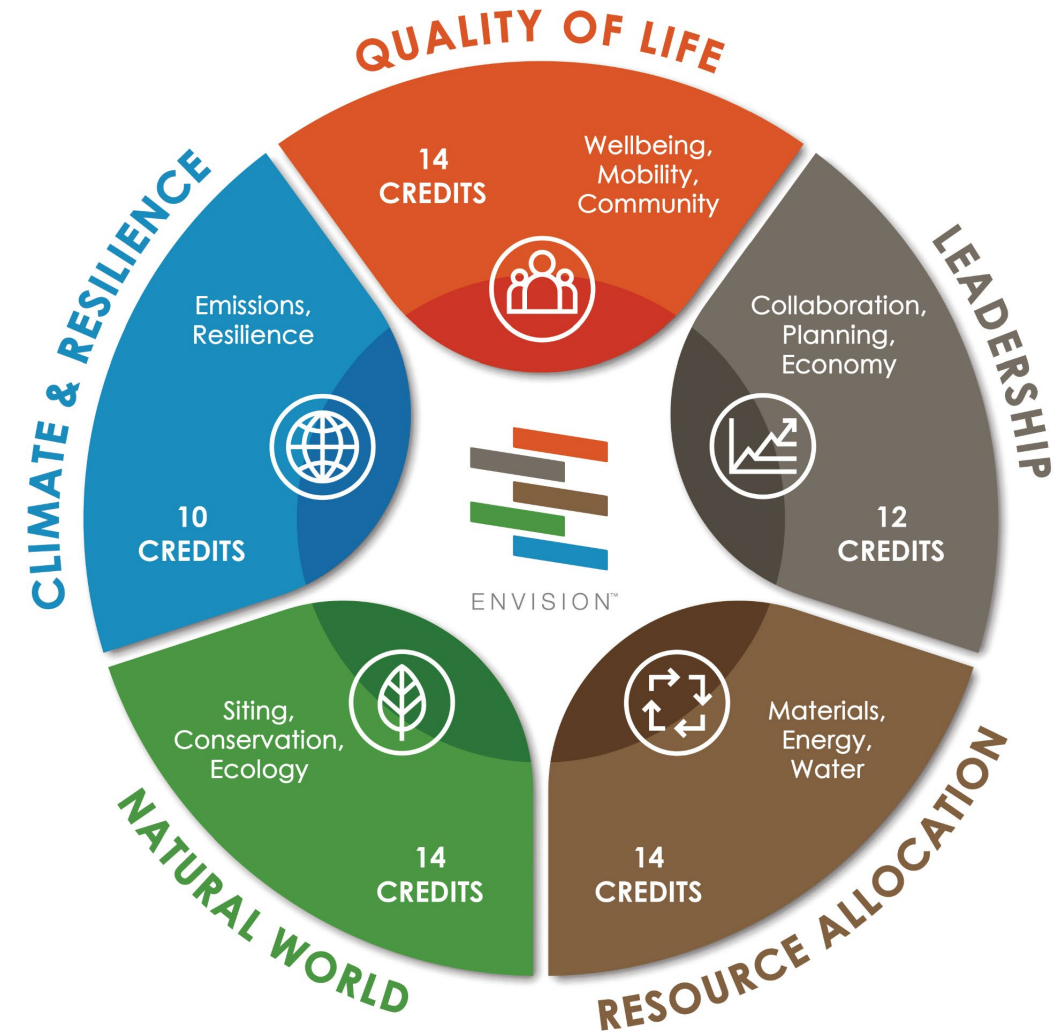
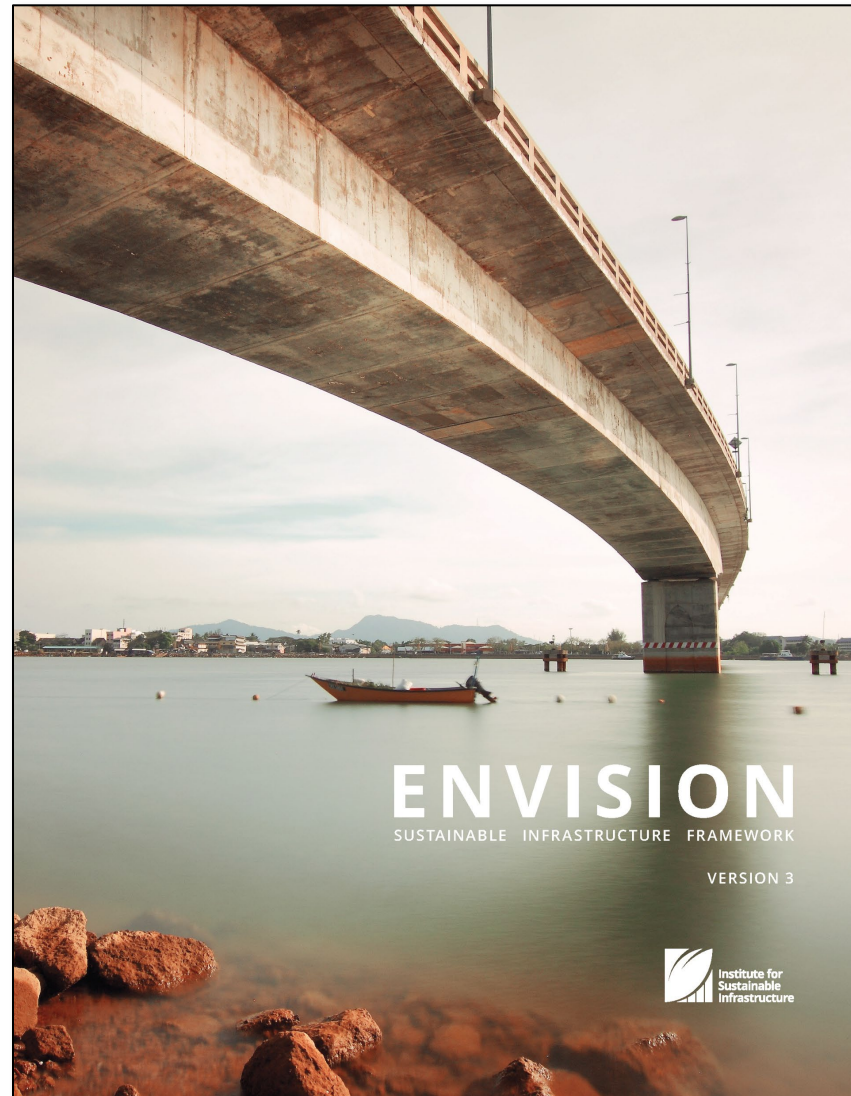
Ecological and
Sustainable Design
certification system



CASA | LATAM

Recognition in
Material category

CSC in Envision





RESOURCE ALLOCATION: MATERIALS

RA1.1 Support Sustainable Procurement Practices

12

POINTS

INTENT

Develop sustainable procurement policies and programs to source materials and equipment from manufacturers and suppliers that implement sustainable practices.

METRIC

The extent of sustainable procurement programs, and the percentage of materials sourced from manufacturers and/or suppliers that implement sustainable practices.

LEVELS OF ACHIEVEMENT

IMPROVED	ENHANCED	SUPERIOR	CONSERVING	RESTORATIVE
A + B	A + B	A + B	A + B	Not Available
(3) 5% Sustainable Procurement	(6) 15% Sustainable Procurement	(9) 25% Sustainable Procurement	(12) 50% Sustainable Procurement	
<p>(A) A written sustainable procurement policy/program is in place.</p> <p>The program includes a well-defined process for selecting suppliers and/or manufacturers of materials, supplies, and equipment, including selection criteria focused on environmental practices and social responsibility.</p>				
(B) At least 5% of all project materials, supplies, and equipment meet the sustainable procurement policy/program requirements.	(B) At least 15% of all project materials, supplies, and equipment meet the sustainable procurement policy/program requirements.	(B) At least 25% of all project materials, supplies, and equipment meet the sustainable procurement policy/program requirements.	(B) At least 50% of all project materials, supplies, and equipment meet the sustainable procurement policy/program requirements.	

- Environmental management systems consistent with ISO (International Organization for Standardization) 14001
- Product-specific type III Environmental Product Declaration (EPD) conforming to ISO 14025, 14044.
- Third-party verified sustainability program (e.g., Forest Stewardship Council (FSC), Green Seal, EcoLogo, Underwriters Laboratory, National Biosolids Partnership (NBP), **Concrete Sustainability Council (CSC), etc.**)
- Third-party verified corporate sustainability report consistent with the Global Reporting Initiative (GRI) Sustainability Report or equivalent.

California Bill SB-44 (2021)

Streamlined judicial review for environmental transit projects that meet sustainability goals.

“(F) The public agency demonstrates how it has incorporated sustainable infrastructure practices to achieve sustainability, resiliency, and climate change mitigation and adaptation goals in the project, including principles, frameworks, or guidelines as recommended by one or more of the following:

- (i) The sustainability, resiliency, and climate change policies and standards of the **American Society of Civil Engineers**.
- (ii) The **Envision Rating System of the Institute for Sustainable Infrastructure**.”



LA DPW Sustainable Infrastructure Guidelines

The guidelines “have been developed to complement Envision.”

“...Although all SIG strategies are specific to LA County, they address every Envision credit.”

“An analysis was completed to determine that achievement of all required SIG credits equates to an approximate Envision rating equivalency of Bronze...”

Port Authority of New York and New Jersey Sustainable Infrastructure Guidelines

“With this update, the Port Authority Sustainable Infrastructure Guidelines Version 2.0 now leverages the Envision system, bringing PANYNJ into alignment with industry best practices while maintaining custom application criteria relevant to the Authority’s unique assets and operations.”

Infrastructure Canada Climate Lens

All federally funded infrastructure must **conduct a climate change resilience assessment**. Approved methodologies to assess climate change risk and resilience consistent with ISO 31000 include **Envision**.

Envision Use

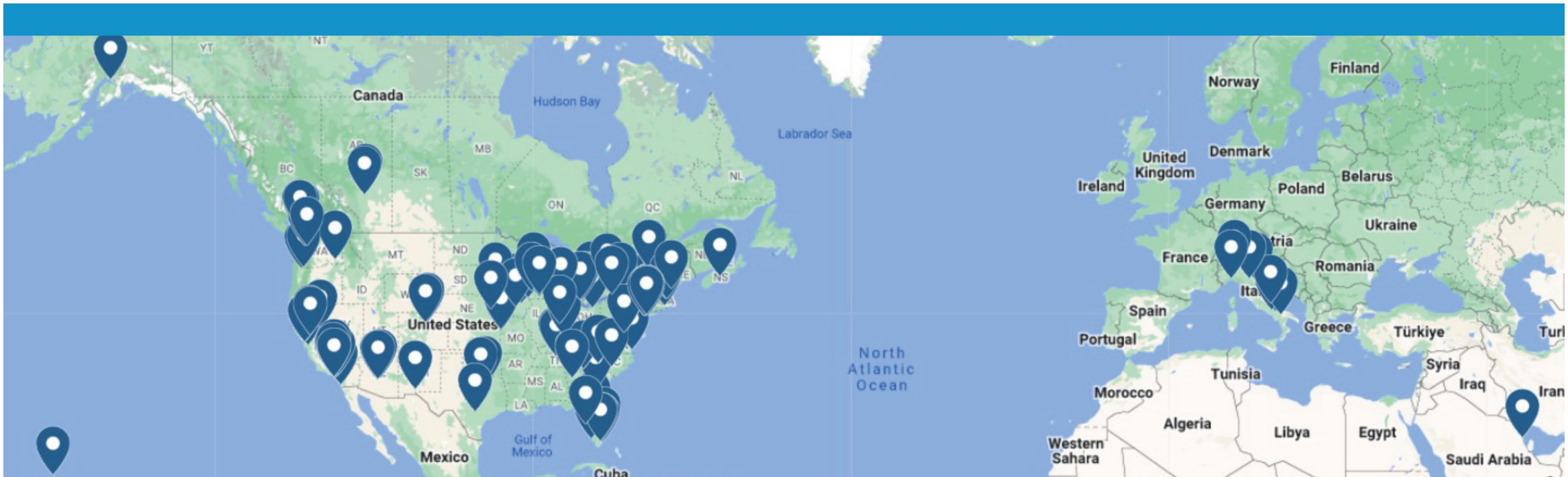
✓ 165+ verified projects,
totaling ~\$130 billion

✓ 185+ projects in registration,
totaling ~\$120 billion

✓ 9,250+ credentialed
professionals

✓ 650+ organizational
members

**as of March 31, 2024*





Social Equity within the Supply Chain

Pilot credits

IPpc144 | Possible 1 Point

Intent

To create more equitable, healthier environments for those affected by and involved in the production of materials and products used in a project, including the stages of raw materials extraction, processing, manufacturing, and assembly of components and products.

Requirement

Meet all 8 Fundamental Conventions of the International Labour Organization (ILO).

Concrete Sustainability Council Certification meets the requirement for concrete.

CSC in LEED v5 (potential)



Multi-Attribute Structure, Enclosure, Hardscape, and Other Building Materials

Project Priority Credit

MRpc181 | Possible 2 Points



Intent

To support the procurement of products and materials that have sustainability information available and have optimized their products across multiple criteria areas.

Requirements

Select building products that demonstrate achievement in two or more of five criteria areas through third party certification:

- Climate health
- Human health
- Ecosystem health
- Social health and equity
- Circular economy

Table 1. Points for multi-attribute achievement of products

Number of Products*	Minimum multi-attribute score per product	Points
15	3	1
30	3	2

*No more than 10 eligible products from single manufacturer



International Guidance & Toolkit

“Design for Freedom Toolkit was published to provide tools and research that practitioners can use to integrate ethical sourcing strategies into their practices.”

Concrete Sustainability Council Certification Industry Focus: Concrete

3rd Party Verified, Labor Prerequisite

The **Concrete Sustainability Council** offers a product certification for all products manufactured and supplied by a concrete plant. Cement and aggregate suppliers can also obtain a supplier certificate for responsible production standards.

Strategic Benefits of CSC Certification



- **Aligns with Green Building Standards:**
 - Complies with LEED, Envision, and other sustainability frameworks
 - Provides verified documentation of responsible sourcing practices
- **Demonstrates Commitment to Sustainability:**
 - Signals a proactive approach to reducing environmental impacts
 - CO₂ emissions, resource consumption, and biodiversity loss
 - Validates circular economy practices and responsible waste management
- **Enhances Market Competitiveness:**
 - Competitive edge on projects that prioritize sustainability and transparency
 - Strengthens brand reputation and trust

Strategic Benefits of CSC Certification



- **Establishes Supply Chain Transparency:**
 - Promotes traceability and accountability across the concrete value chain
 - Identify and mitigate social and environmental risks in procurement
- **Supports Social and Ethical Standards:**
 - Evaluates health and safety practices and human rights protections
 - Reinforces corporate social responsibility and ethical business conduct
- **Contributes to Climate Goals and ESG Reporting:**
 - Contributes to corporate ESG metrics and climate disclosures
 - Provides measurable indicators for sustainability performance
 - Useful in investor communications and regulatory compliance.



Concrete Sustainability Council

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