



TBCSD Seminar

Siam City Cement PCL

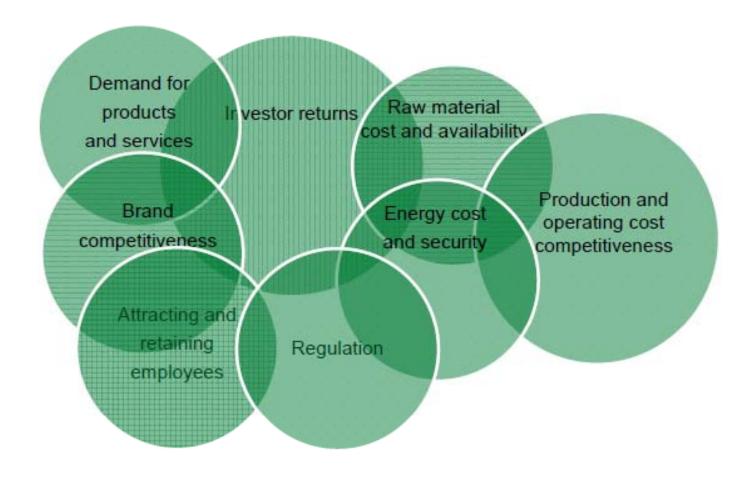


- Green Conscious & Awareness
- SCCC Sustainable Development & Environmental Performance
- INSEE Green Heart Label & Green Products
- Green Building Support & EPD
- Green Industry
- Activities



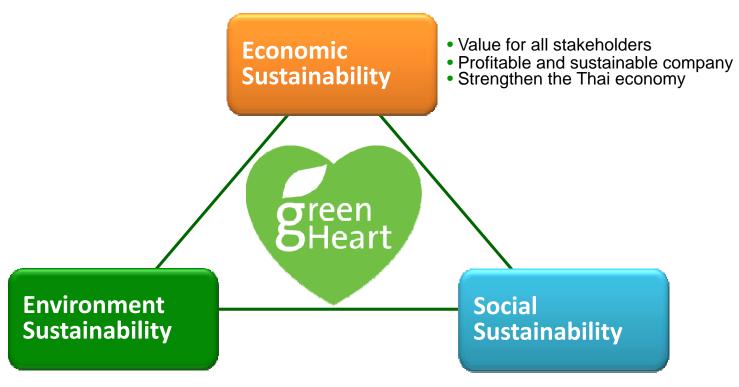
Business Drivers

The aim of business is to provide sustainable returns to all stakeholders - there are a number of interlinking fundamentals



Group SCCC and Sustainable Development

We have to operate our business within these frameworks for sustainability



- Preservation of natural resources
- Reduction in energy consumption
- Protection of the environment
- Rehabilitation and biodiversity

- Lift up the standard of living for employees
- Better living with new products for houses
- Improved infrastructures for the communities
- Care for employees and communities

Environmental-Driven

More & more focus on the Environmental aspects across all industries leading to support environmental policy, e.g. Green Procurement Policy

การจัดซื้อจัดจ้างสีเขียว" (Green Procurement หรือ Green Purchasing) คือการจัดซื้อสินค้าและจัดจ้างบริการที่เป็น มิตรต่อสิ่งแวดล้อม กล่าวคือ เป็นการจัดซื้อจัดจ้างสินค้าและบริการที่ส่งผลกระทบน้อยกว่าสินค้าและบริการปรกติทั่วไปที่ทำหน้าที่ อย่างเดียวกัน โดยพิจารณาตลอดวัฏจักรชีวิตของผลิตภัณฑ์ เริ่มตั้งแต่ขั้นตอนการจัดหาวัตถุดิบ ไปจนถึงขั้นตอนการจัดการซาก ผลิตภัณฑ์หลังหมดอายุการใช้งาน

ยุทธศาสตร์ในการชับเคลื่อน

- การขับเคลื่อนปริมาณการจัดซื้อจัดจ้างของหน่วยงานภาครัฐ 2) กระตุ้นการผลิตสินค้าและบริการที่เป็นมิตรกับสิ่งแวดล้อม
- สร้างฐานการบริโภคอย่างยั่งยืนของภาคประชาชนและองค์กร 4) การบริหารและกำกับดูแลแผนการส่งเสริม

สินค้าและบริการที่เป็นมิตรกับสิ่งแวดล้อม

หมายถึงสินค้าที่ส่งผลกระทบต่อสิ่งแวดล้อมจากขั้นตอนการจัดหาวัตถุดิบ การผลิตการขนส่ง การใช้งาน และการจัดการหลัง หมดอายุการใช้งานน้อยกว่าเมื่อเทียบกับสินค้าอื่นที่ทำหน้าที่อย่างเดียวกัน รวมไปถึงสินค้าที่ได้รับการรับรอง ฉลากสิ่งแวดล้อม ี่ ประเภทที่ 1 (Type 1) เช่น ฉลากเขียว, ฉลากสิ่งแวดล้อมประเภทที่ 2 (Type 2) ตามมารตรฐาน ISO 14021 ฉลากสิ่งแวดล้อม ประเภทที่ 3 (Type 3) เช่น ฉลากคาร์บอน, ฉลากคาร์บอนฟุตพริ้นท์



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SD Roadmap - The 6 focus areas



- 1. CO2 Emission Reduction
- 2. Stakeholders Engagement with Green Heart Activities
- 3. Community Involvement & Development
- 4. Zero Waste to Landfill & TSR
- 5. Green Heart Products & Services Innovation
- 6. Water management & conservation

Stakeholders Involvement





Siam City Cement Green Products

Sustainable Development









Low Environmental Impact Cement





Conwood by INSEE





Environmentally-Friendly Wood Replacement Product

INSEE Mortar











Low Environmental Impact Mortar

INSEE Concrete





INSEE SUPERBLOCK



Energy Optimization AAC Products



SCCC aims to reduce 20% of CO2 emission by 2020

• During Y2007 to Y2015, SCCC already reduced -6.8% of CO2 Emission and aims to reduce to -20% by Y2020.



INSEE Cement: Carbon Footprint & Carbon Footprint Reduction Label Certification

INSEE Cement get certified Carbon footprint label, Carbon footprint label for product, and Carbon footprint Reduction Label

Carbon Footprint Label

Structural Cement: INSEE Petch, INSEE Dum

Mixed and masonry Cement: INSEE Dang, INSEE Poon

Keaw, INSEE Tong

Carbon Footprint Label for Product

Structural Cement : INSEE Petch & Petch Rakloke & Petch Ngarn Lor, INSEE Dum,

Mixed and masonry Cement: INSEE Dang, INSEE Poon Keaw, INSEE Super, INSEE Tong

Carbon Footprint Reduction Label

Structural Cement : INSEE Petch & Petch Rakloke & Petch Ngarn Lor

Mixed and masonry Cement: INSEE Dang, INSEE Poon Keaw, INSEE Super, INSEE Tong

งาน "ร้องควงใจ ร่วมใจลดโลกร้อน"









Carbon Footprint Certification (2016)

Carbon Reduction Label : ฉลากลดคาร์บอน













Carbon Footprint Label for Product : ฉลากคาร์บอนฟุตพริ้นท์ของผลิตภัณฑ์



















Bag (B2C)

Bulk (B2B)

Carbon Footprint Reduction Label for Product : ฉลาก<u>ลด</u>คาร์บอนฟุตพริ้นท์ของผลิตภัณฑ์ (ฉลากลดโลกร้อน)









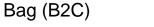












Bulk (B2B)

INSEE Mortar: Carbon Footprint & Carbon Footprint Reduction Label Certification

INSEE Mortar get certified Carbon footprint label and Carbon footprint Reduction Label

Carbon Footprint Label

Plastering Mortar: INSEE Mortar No.11, INSEE Mortar No.13

Bricklaying Mortar: INSEE Mortar No.21, INSEE Mortar No.23

Floor Leveling Mortar: INSEE Mortar No.31



Carbon Footprint Reduction Label

Plastering Mortar: INSEE Mortar No.13

Floor Leveling Mortar: INSEE Mortar No.31



























INSEE Concrete: Carbon Footprint & Carbon Footprint Reduction Label Certification

- INSEE Concrete get certified Carbon footprint label and Carbon footprint Reduction Label
 - Concrete strength class 210 ksc.
 - Concrete strength class 240 ksc.
 - Concrete strength class 280 ksc.
 - Concrete strength class 320 ksc.
 - Concrete strength class 380 ksc.
- Received CFP certification and CFP Reduction certification from Minister of Natural Resources and Environment.













- **Green Conscious & Awareness**
- **SCCC Sustainable Development & Environmental Performance**
- **INSEE Green Heart Label & Green Products**
- **Green Building Support & EPD**
- **Green Industry**
- **Activities**



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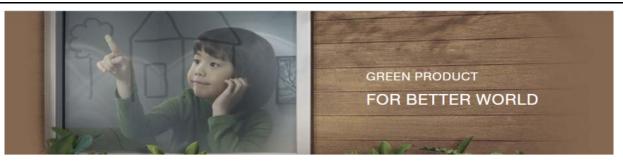
INSEE Green Heart Label



Conforms to ISO 14021: Self - Environmental Certifications and Declarations

Green Products & Innovations





Green Heart Label was developed by a SCCC committee to identify our most environmentally-friendly products and services, which must meet seven eco-criteria. The Green Heart Label is granted according to environmental standards ISO 14021:

Environmental Labels and Declarations - Self Declared

Green Heart Label Criteria



Reduced Resource Use



Recovered Energy



Reduced Energy Consumption



Extended Life Product



Recycled Content



Waste Reduction



Compostable



INSEE Green Heart Label



Conforms to ISO 14021: Self - Environmental Certifications and Declarations

Green Products & Innovations

Portland Composite Cement



GH Criteria: Reduce Resource Used

Reduce clinker factor since PCC itself consists of limestone that help reduce CO2 emission in cement production.

Clinker Factor Reduction

INSEE Manufacturing Sand



GH Criteria: Reduce Resource Used

- Customized and special crushed stone used to replace natural sand and in concrete production.
- Crushed Rock Fine usage Improvement Project create value for CRF to be equivalent natural sand by replacement 30%. This alternative is market trend for Green building and preparation for natural sand shortage situation



INSEE Green Heart Label



Conforms to ISO 14021: Self - Environmental Certifications and Declarations

Green Products & Innovations

INSEE SUPERBLOCK





GH Criteria: Reduce Resource Used

- Reduce the natural material in production by using recycled materials as ingredients
- INSEE Superblock is the first AAC products that receive Green Label award from Thailand Environment Institute Foundation

INSEE FloorCrete





GH Criteria: Extended Life product

 The special concrete formula which was developed for long service life with high abrasion resistance of the surface and stiffness throughout the piece.



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Siam City Cement Product's contribution to Green Building Rating System

INSEE Products & Services Contribution to Green Building Standard Summary Table





Example Site Reference – Green Building Project Support

Toyota Showroom



Project	Green Building Rating System
Toyota Bangbuatong	TREES- NC
Toyota TBN, Karnchanapisek	TREES- NC
Toyota Songkhla, Pawong	TREES- NC
Toyota Interyont, Chonburi	TREES- NC
Toyota Najomtien, Chonburi	TREES- NC
Toyota BangBuatong	TREES- NC
Toyota Cha-Am, Phetchaburi	TREES- NC

Green Building Rating System: LEED

Kasikorn Bank- Chaengwatthana 2











EPD (Environmental Product Declaration)

 An EPD (Environmental Product Declaration) is an independently verified and registered document that communicates transparent and comparable information about the life-cycle environmental impact of products. EPD is in accordance with ISO 14025, where they are referred to as "type III environmental declarations.

EPD brings benefits to company in many aspects,

Building Design

Green building certification (LEED,BREEAM...)

Procurement

Green Public Procurement

Marketing

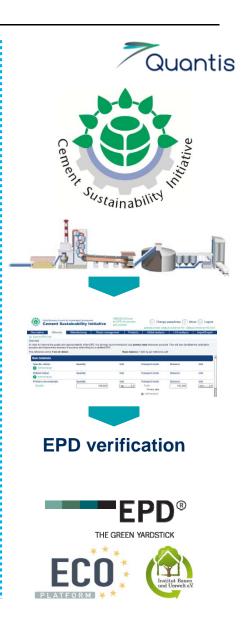
Fact based communication and brand reputation

R & D

- Product design
- Competitors monitoring

Innovation

- Method to drive innovation with company and supply chain
- Environmental KPIs to drive environmental performance of the complete company





CSI EPD Calculation Tool

CSI EPD tool: A pre-verified LCA tool to reduce costs and effort of producing cement and concrete EPDs

In order to facilitate the process and reduce the costs of preparing cement and concrete EPDs, the EPD tool was officially pre-verified by an accredited independent verifier.

Main assets of CSI's EPD tool:

- Pre-verification of the tool (once for all), including verification of LCA model, project database, compliance with PCR, and results provided by the tool
- Only the input data need to be verified when filing for EPD registration
- Verification costs reduced by up to 50%

Mutual recognition between major EPD Programme Operators:

Although CSI's PCR for concrete is registered at Environdec, the mutual recognition between **Environdec and IBU** allows EPDs to carry both logos without further verification





Example of pre-verified EPD



Self-declaration based on Environdec PCR UN CPC 375 Concrete (v1.0)

	INSEE Concrete - Con	npressive S	Strength 2	40 ksc		
Manufacturer:	(TH)					
Declared unit:	1 m2 of ready-mix concrete					
Product identification:	INSEE Concrete - Compressive Strength 240 ksc .INSEE Concrete 240 ksc					
Production site(s):		-				
Scope:	cradle to construction					
Methodology:	CSI EPD Tool v1.2 / CML v4.2	,				
Date of issue:	2016-07-28					
Comment:	All information about goal and present in the latest version of				verifier are	
Environmental impacts		A1-A3	A4	Total		
Global warming potential, GWP (100 years)		2.65E2	6.59E0	2.72E2 (4.66ED)	kg CO2-eq.	
Depletion potential of the stratospheric ozone layer, ODP		1.40E-5	1.04E-6	1.50E-5 (0.00E0)	kg CFC 11-ec	
Acidfication potential of soil and	i water, AP	8.12E-1	3.18E-2	8.44E-1 (4.92E-2)	kg 902-eq.	
Eutrophication potential, EP		2.43E-1	7.94E-3	2.51E-1 (5.04E-3)	kg PO43ed	
Formation potential of tropospheric ozone, POCP		4.48E-2	9.96E-4	4.58E-2 (3.63E-3)	kg ethylene -	
Abiotic depletion potential for non-fossil resources, ADP-elements		2.02E-4	1.63E-5	2.18E-4 (0.00E0)	kg Sb-eq.	
Ablotic depletion potential for fo	ssil resources, ADP-fossil fuels	2.15E3	9.63E1	2.25E3 (0.00E0)	MJ	
Human toxicity potential, HTP		N/A	NA	N/A (N/A)	kg p-DCB-eq	
Freshwater aquatic ecotoxicity potential, FAETP		N/A	N/A	N/A (N/A)	kg p-DCB-eq	
	Marine aquatic ecotoxicity potential, MAETP					
Marine aquatic ecotoxicity poter		NA	NA	N/A (N/A)		
Marine aquatic ecotoxicity poter Terrestrial ecotoxicity potential,	TETP	NA	N/A N/A	N/A (N/A) N/A (N/A)		
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- Green Conscious & Awareness
- SCCC Sustainable Development & Environmental Performance
- INSEE Green Heart Label & Green Products
- Green Building Support & EPD
- Green Industry
- Activities





Green Industry Level 5 Awards



"Green Industry is the industry that commits to environmentally-friendly entrepreneurship by focusing on development and continuous improvement, and practice business with responsibility towards society inside and outside organization as well as supply chain for sustainable development."





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Example of activities to promote awareness

2015 Thai Green Building Business Networking

On March 2,2015, Venue: Thai Green Building Institute

Be a guest speaker in 2015 Thai Green Building Business
 Networking at Thai Green Building Institute(TGBI) on Green products topic.



On July 14,2015, Venue: Bitec Bangna

 Exhibit INSEE Green Products and Services through INSEE Integrative Green Solution Booth, present INSEE Green product to developer, consultant, engineer and university student.

The 20th National Convention on Civil Engineering

On July 8-10,2015, Venue: The Zign Hotel Pattaya

 Displayed INSEE Integrative Green Solutions booth at the 20th National Convention on Civil Engineering to promote SCCC Group's products & services that could contribute to Green Building Rating Standard.







