



# Japanese CFP project

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Japan Environmental Management  
Association for Industry

**Japanese CFP verification**  
Product by Product verification  
System certification

Centre of LCA Business Promotion  
Department of Product and Environmental Aspects  
Japan Environmental Management Association for Industry **JEMAI**

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13<sup>th</sup> May 2016 

# Agenda

## Part.1

1. JEMAI's profile
2. JEMAI's ecolabel program ; Carbon Footprint & EcoLeaf
3. Current Status of CFP in Japan
4. Future plan

## Part.2



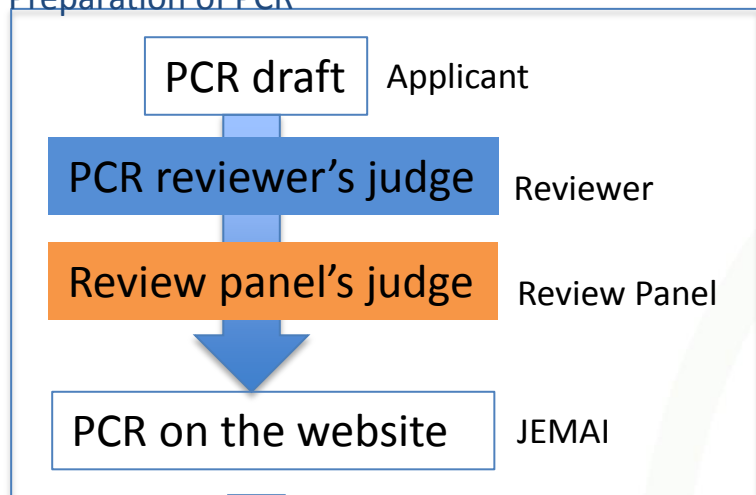
1. Outlines of CFP program in Japan
  - PCR registration
  - Verification (Product by product / System Certification)
  - The depth of Verification (on the based of Verification Fee)
  - Registration (The process of Annual fee)
2. Roles of Verifiers, Review panel members and JEMAI (Secretariat).
3. The process of System certification

## Part.3

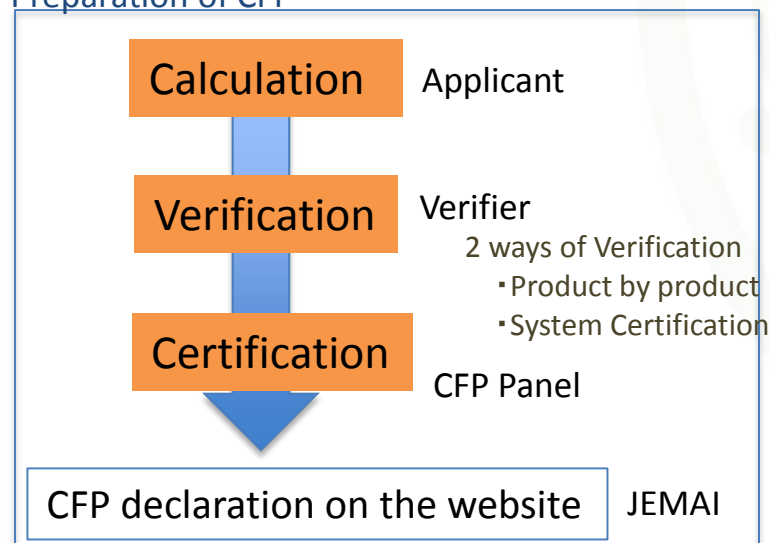
1. The detailed processes of "Product by product verification" .

# CFP-PCR / CFP certification process

## Preparation of PCR



## Preparation of CFP



(Tax included)

1. Fees for CFP-PCR approval and for CFP verification	
Item	JPY
Fees for CFP - PCR approval (including preparatory review)	118,800
Fees for CFP -PCR approval (not including preparatory review)	32,400

2. Fees for CFP verification	
	JPY
	108,000

3. Fees for CFP Registration (Tax included)		
Sales amount(s) of CFP product(s) per company	Fees for registration and release (yen)	
	Category	JPY
0 yen (not for sales)	ALL	10,800
Less than 10 million yen	ALL	21,600
Over 10 million yen to less than 50 million yen	ALL	32,400
Over 50 million yen to less than 100 million yen	ALL	64,800
Over 100 million yen to less than 500 million yen	ALL	140,400
Over 500 million yen to less than 1 billion yen	ALL	280,800
Over 1 billion yen to less than 10 billion yen	Small and medium-sized businesses	410,400
Over 1 billion yen to less than 10 billion yen	Other businesses	820,800
10 billion yen or more	Small and medium-sized businesses	540,000
10 billion yen or more	Other businesses	1,080,000

# Verification Fees of CFP & EcoLeaf

	EcoLeaf (ISO14025)	CFP (ISO/TS 14027)
	Multi Criteria	Single Criteria (GHG)
Verification	Face to Face	In writing
Checking the evidence of data	Face to Face interview	Check the declarations on the applications
Verification fee (exc. Tax)	¥ 220,000	¥ 100,000



How it becomes the cost efficiency?

- Preparing for the applications matching the level of the verification by the support of consultations and attending the seminar.
- Using the self-checkup list for the applications of CFP verification.

# Support companies and verifiers through seminars and workshops

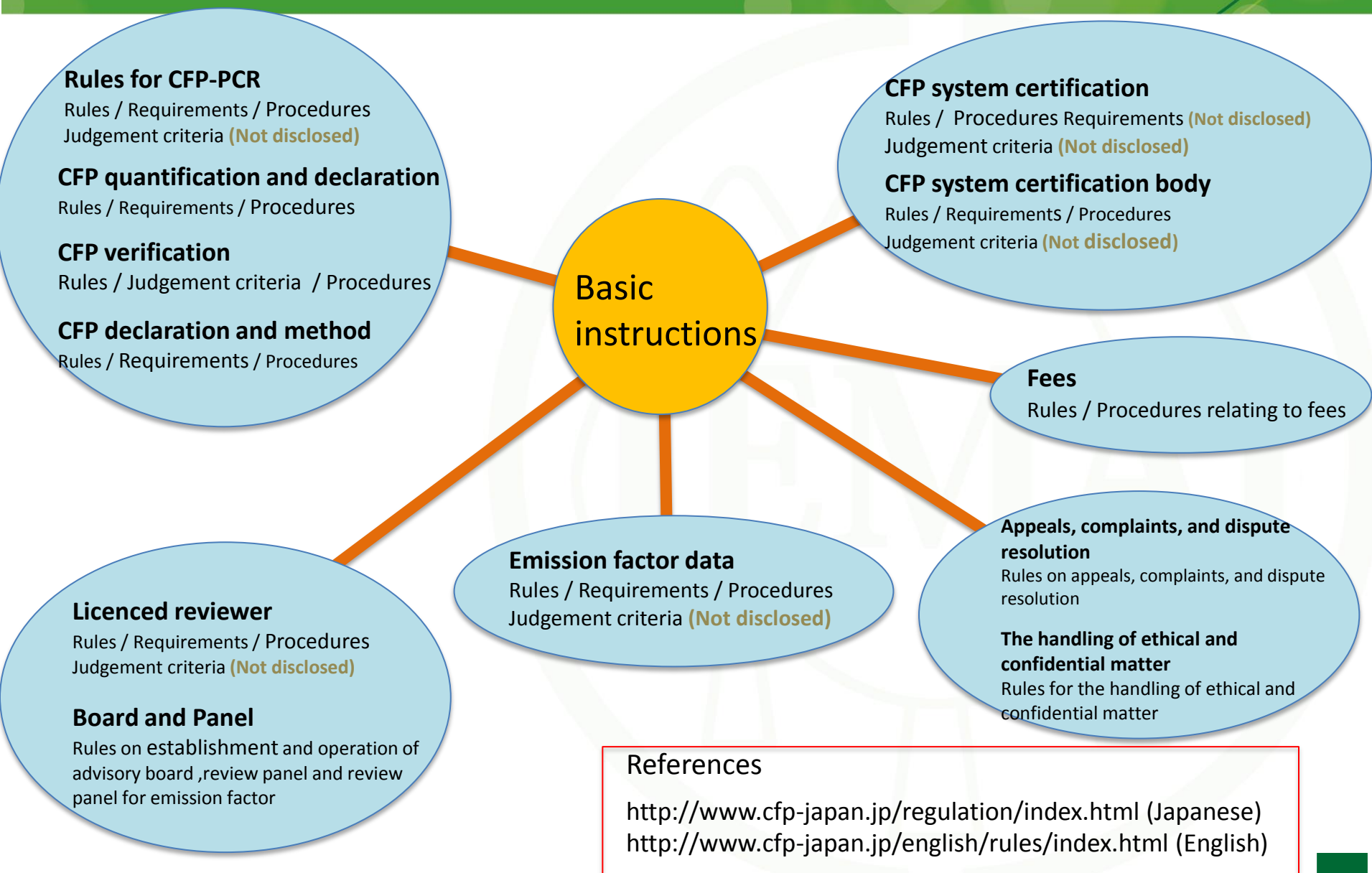
- **Introductory seminars & Consultations** (every 2 months) :
  - Concept, use of environmental labelling programmes, collection and quantification of life cycle data, etc, are taught. Also provided are support for starters to get first product registered.
- **Quantification method workshops** (every 2-3 months or when requested):
  - Train staff at companies which participate in JEMAI programs.
- **Environmental labelling community** (1 or 2 a year):
  - Offer companies and verifiers the latest information on labelling programs and LCA trends, best practices, etc. Also used as a platform for companies to exchange information.



- **Information exchange meetings for CFP licensed reviewers** (once a year):
  - Discussions and reports on the use of general purpose PCRs, how to enter formulae on application forms, correction verifications, etc.
- **Information exchange meetings for CFP system certifying bodies** (once a year):
  - Discussions and reports on revisions to the rules and specifications, etc.

# Documents & Database

# Rules & Specification of CFP program



# Database

Three databases and one library as secondary data are made available in order to improve the convenience for calculation and the practical use of the CFP Communication Program.

- **Basic secondary database**
- **Available data library**
- **Distance data between countries and regions**
- **Heating value database**

## 【Basic secondary database】

Made up of data verified with the Basic Data Verification Criteria by the Unit Data Review Panel, which consists of third party intellectuals. It is disclosed and is the result of the CFP Pilot Project (FY2009 - FY2011), which developed the Tentative Database of GHG Emission Factors for the CFP Pilot Project.

## 【Available secondary database】

A library of unit data made available for the CFP Program and complements the basic secondary database.

A company wishing to conduct CFP calculations requests JEMAI, the programme holder, for the registration of the unit data they've collected. JEMAI checks the appropriateness of the data using the judgment criteria on check of available secondary data. After the check, the data is registered as the available data.

Some of the available data don't disclose GHG emissions and/or the scope of the basic units. However, they can be disclosed if they're for the companies which originally registered the data or if the data are appropriately obtained (by paying a fee or for a license, etc).

When compared with the basic data, the quality of the available data may vary because the verification of the data quality and the confirmation procedure of the available data are simplified. However, this is not to say that the quality of the available data is inferior across the board.

## 【Distance data between countries and regions】

Available for calculating marine, land, and air transportations between countries and regions.

## 【Heating value database】

Utilised for the creation of the basic database and is available for estimating from similar fuel classifications.



# Verification process

# Two ways of verifications

## 1. Product-by-Product verification

- 1) JEMAI selects a CFP verifier from among licensed reviewers.
- 2) The selected verifier conducts CFP verification for the product in the application and makes an approval/disapproval decision.
- 3) The Review Panel confirms the result of the verification submitted by the CFP verifier, and makes a final judgment on whether to approve.

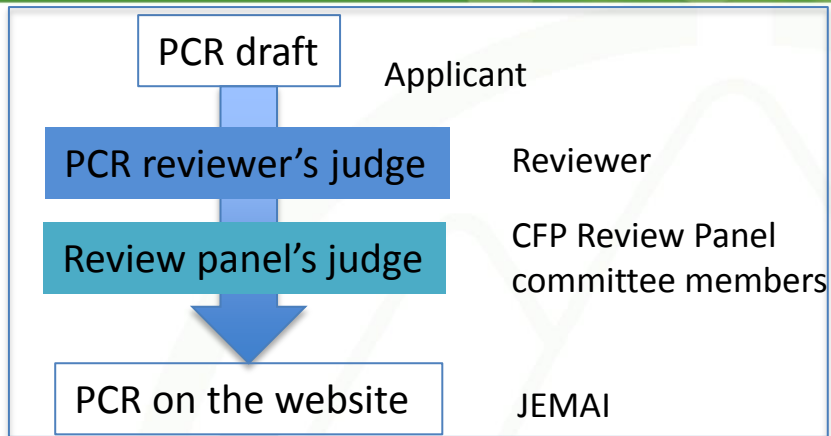
## 2. System Certification

The objective : to confirm that the quantification, verification, and disclosure of a CFP system, which has been internally set up within the applicant company, meet the requirements and that the result of the CFP quantification and declaration made by the applicant company is reliable.

- 1) A CFP System Certification body conducts an audit and certifies the CFP system.
- 2) The Review Panel confirms the result of the audit.
- 3) Once the CFP system is certified, the applicant company may apply for the registration and publish the CFP declaration by conducting an internal and independent verification.

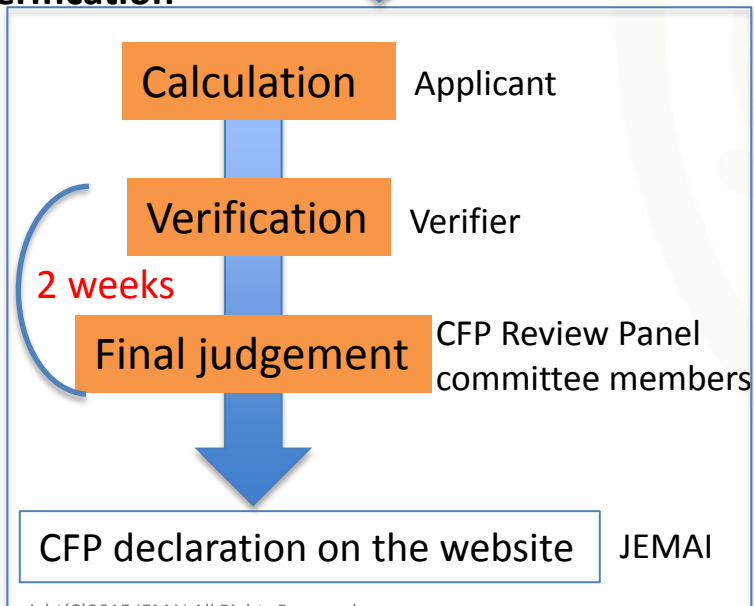
# CFP-PCR / CFP certification process

## PCR process

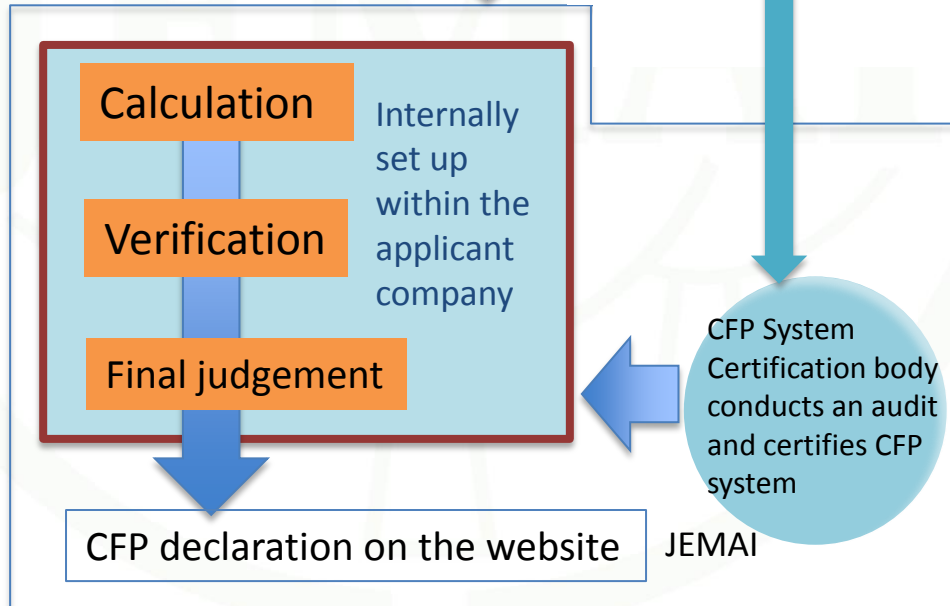


## Verification process

### Product-by-Product verification



### System Certification



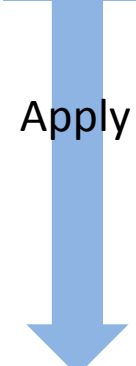
**Review panel**  
**Confirm**

# Verifiers

The Tasks of Verifiers: 1) Conduct CFP verification 2) CFP-PCR review

## <Procedure of the registration of verifiers>

Applicant for Verifiers



- Included details of application**
- \*Business background (including educational background)
  - \*Qualification and the number given in previous registration (not applicable for unregistered applicants)
  - \*Experience of LCA
  - \*Experience of development of CFP-PCR, CFP quantification, CFP-PCR review, and CFP verification
  - \*Experience of receiving any appeal or complaint

JEMAI



Rules and Specification for Verifiers		
R-11-01	Rules on registration and assessment of licenced reviewer	
C-15-01	Requirements for competence of licenced reviewer	
C-16-01	Judgement criteria on registration of licenced reviewer	(Not disclosed)
C-17-01	Procedures of registration and assessment of licenced reviewer	

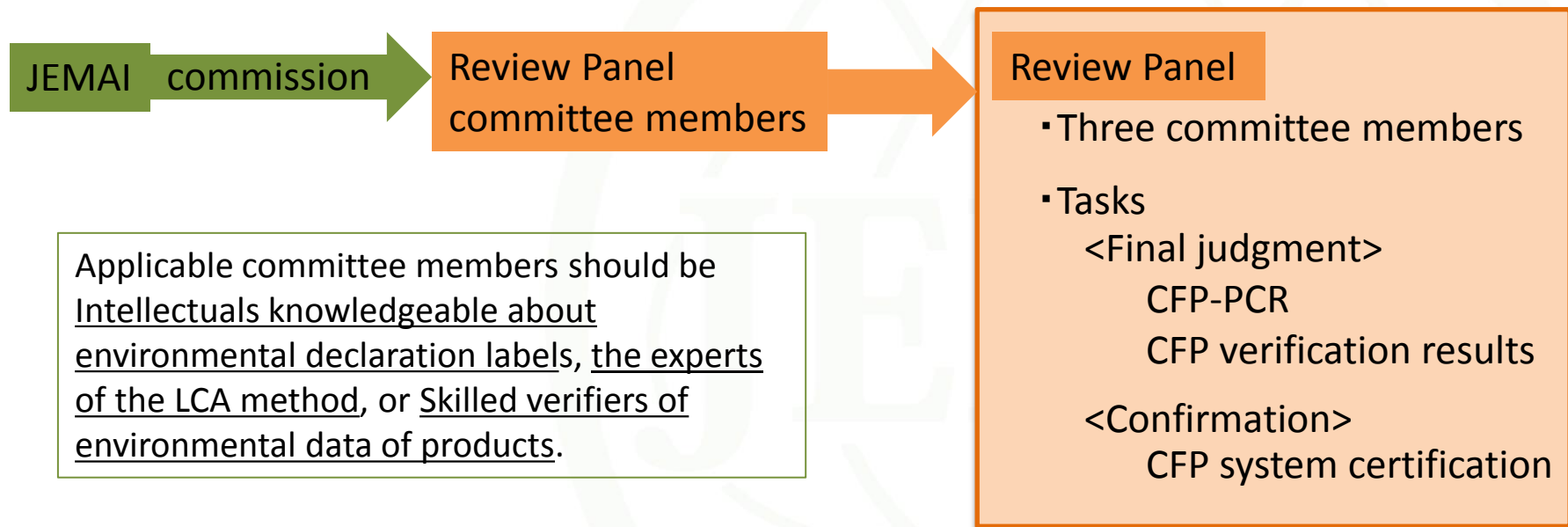
Registration

- \*Payment of the registration fee (Annual)
- \*Reviewing the registration details (Every 3 years)

# CFP Review Panel committee members

The Tasks of CFP Review Panel committee members

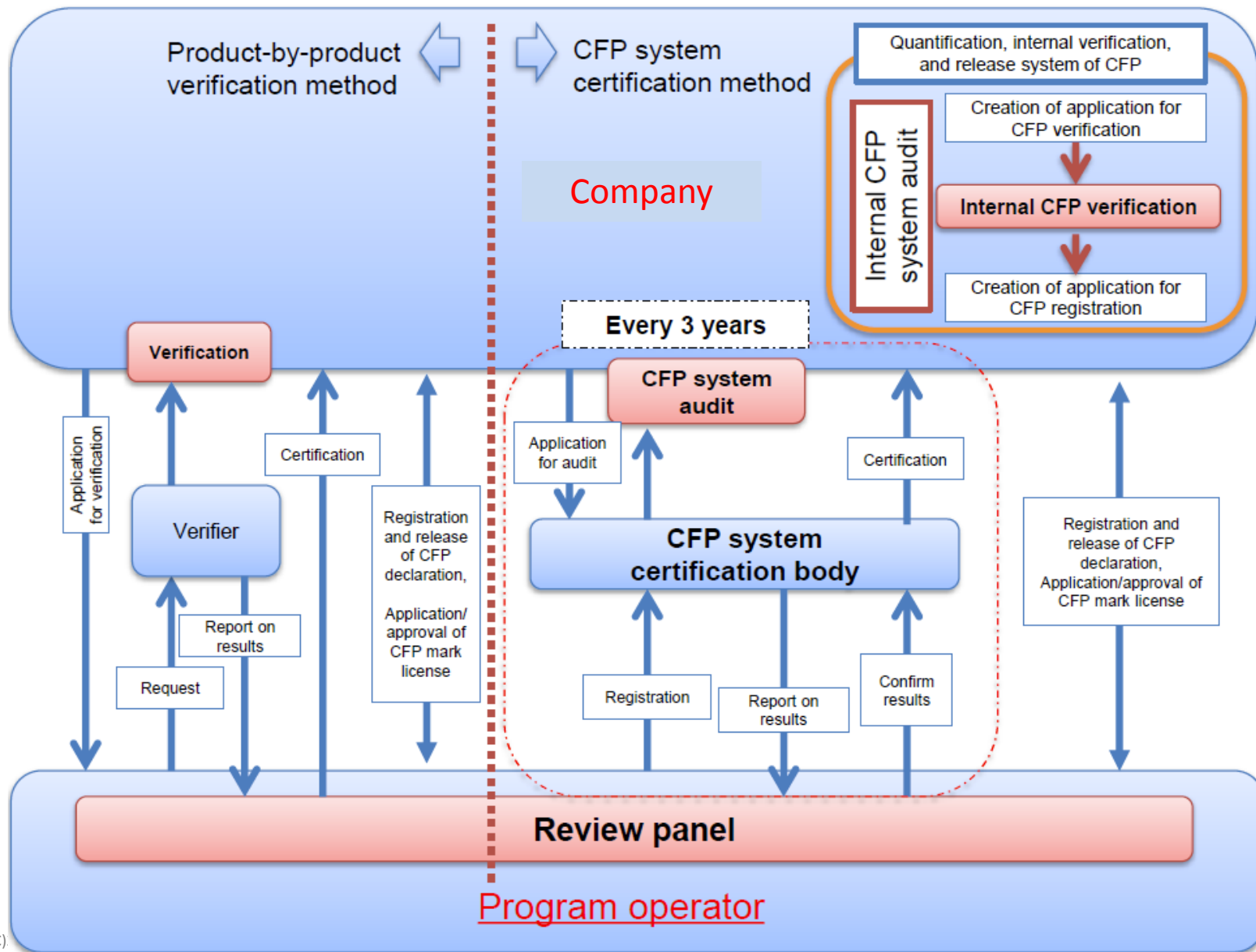
- 1) Final judgment on CFP-PCR approval
- 2) Check and final judgment on CFP verification results
- 3) Confirm CFP system certification



Applicable committee members should be Intellectuals knowledgeable about environmental declaration labels, the experts of the LCA method, or Skilled verifiers of environmental data of products.

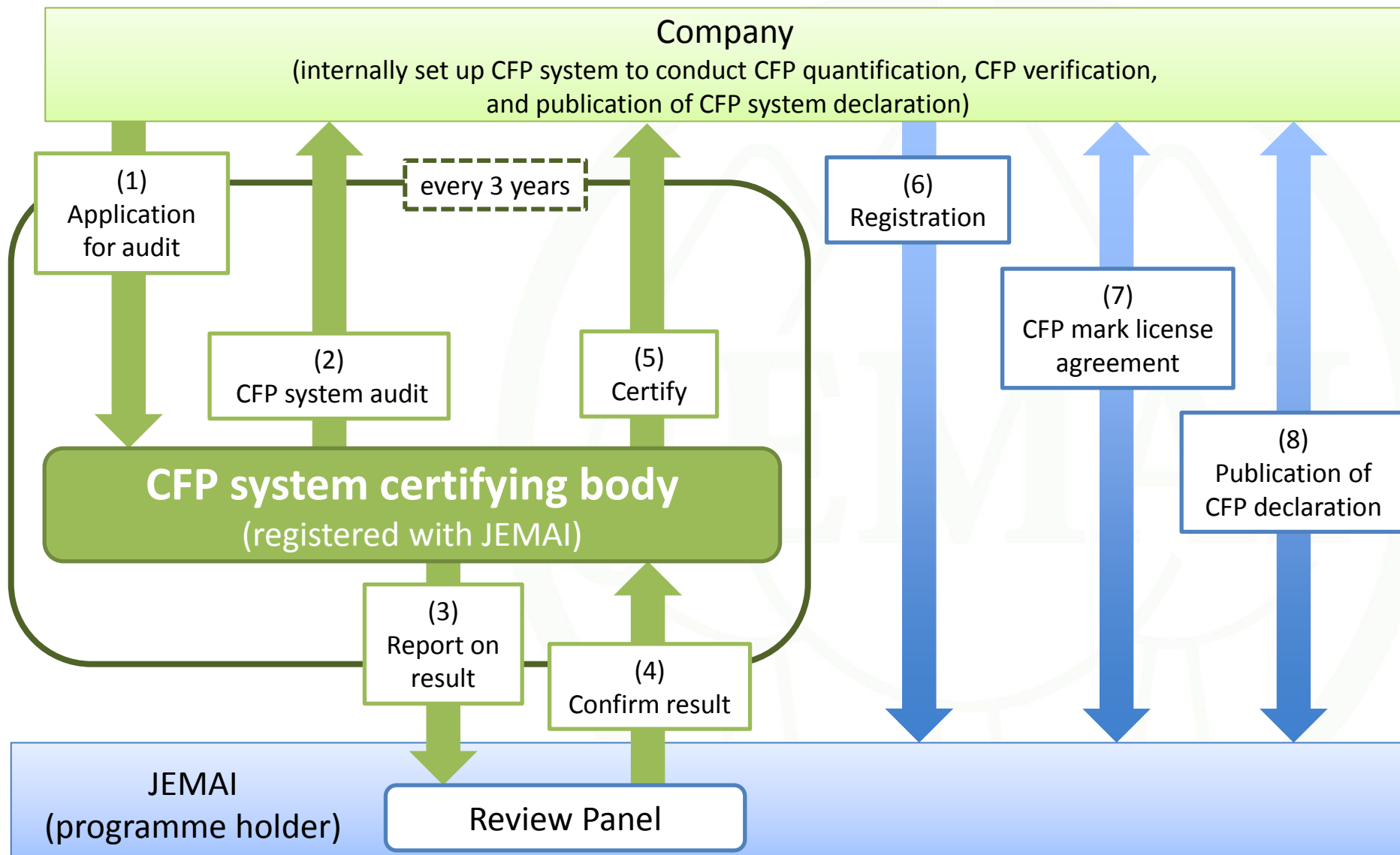
Rules	
R-03-01	Rules on establishment and operation of review panel

# Flowchart of CFP verification





# System Certification method



# Rules & Specification for System certification

## CFP system certification

R-09-01	Rules on CFP system certification	
C-12-01	Requirements for CFP system certification	
C-26-01	Criteria on registration and assessment of CFP certification	Not disclosed
C-13-02	Requirements for CFP declaration method	

## CFP system certification body

R-12-01	Rules on registration and assessment of CFP system certification body	
C-18-02	Requirements for competence of CFP system certification body	
C-19-02	Requirements for competence of CFP system auditor	
C-20-01	Criteria on registration and assessment of CFP system certification body	Not disclosed
C-21-01	Criteria on registration and assessment of CFP system auditor	Not disclosed
C-22-01	Procedures of registration and assessment of CFP system certification body	
C-23-01	Procedures of registration and assessment of CFP system auditor	

<For the details>

<http://www.cfp-japan.jp/english/rules/index.html> (English)



# CFP system certification scheme

Certification bodies certifies applicants having reliable CFP calculation systems.



**CFP system certification bodies**  
 Lloyd's Register Quality Assurance Limited  
 Bureau Veritas Japan  
 SGS JAPAN  
 Japan Gas Appliances Inspection Association  
 Japan Quality Assurance Organization

## Current certified companies

**Canon Inc.**

- Imaging input and/or output equipment (PA-DG)

**TOSO COMPANY, LIMITED**

- Curtain rails, shades and blinds (PA-BT)

**CHIKUMA & CO.,LTD**

- Uniform (PA-AO)

<Printing matters>

**Japan Waterless Printing Corporate Association**

- Printed stuff by the waterless printing (PA-DD)

**GREEN POD PROMOTION GROUP**

- Printing products for promotion and industry use (PA-BS)

**Toppan Printing Co., Ltd**

- Publishing and commercial printing (PA-AD)
- Printing products for promotion and industry use (PA-BS)



# CFP system certification scheme

## Benefits

- 1

More **flexible timing of validation** than product-by-product verification scheme.
- 2

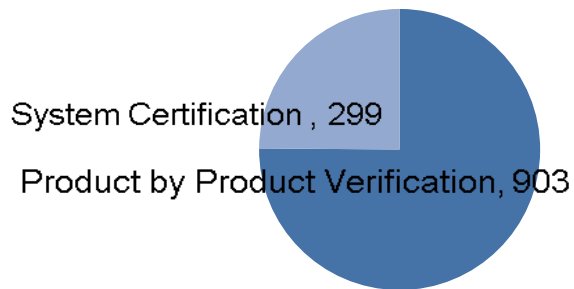
Enable CFP quantification and label **released on the time** products will be planned and sold.
- 3

**Cost reduce** as CFP for a large number of products are planed to disclose.
- 4

**Build frameworks** to collect data and quantify and also **build groundwork of LCA** within organizations.

# System Certification

## The numbers of CFP registration



## The press release on Company's website

**TOPPAN** 凸版印刷株式会社

製品・サービス IR情報 CSR活動 ニュースリリース 企業情報 研究開発 採用情報

ホーム > ニュースリリース

ニュースリリース NEWS RELEASE

2012年11月29日

**凸版印刷、業界初、「カーボンフットプリント システム認証」を取得  
～カーボンフットプリントの民間運用開始後、初の認証取得～**

凸版印刷株式会社(本社:東京都千代田区、代表取締役社長:金子勝春、以下 凸版印刷)は、「出版・商業印刷物(中間財)(※1)」および「宣伝用および業務用印刷物(※2)」分野において、業界初めで、「カーボンフットプリント(CFP)(※3)システム認証」を2012年11月16日に取得しました。

「CFPシステム認証」は、企業が社内に構築したCFPを算定、検証、登録・公開申請を行うシステムについて、第三者の認証を得るものです。凸版印刷はこのたび、社団法人産業環境管理協会(本部:東京都千代田区、会長:富澤雅一)に登録したCFPシステム認証機関であるSGSジャパン株式会社(本社:神奈川県横浜市西区、代表取締役:曾我正博)より、本認証を取得しました。凸版印刷は、CFPコミュニケーションプログラム(※4)の民間運用開始後、初めての認証取得企業となります。

なお本認証取得について、2012年12月19日(木)～15日(土)まで開催される展示会「エコロダクソン2012」(会場:東京国際展示場)のトッパングループブースで紹介いたします。

■ CFP システム認証とは

CFPシステム認証とは、企業や団体が組織内部にCFPを算定、検証、登録・公開申請を行うシステムを構築し、このシステムを、第三者であるCFPシステム認証機関が審査し認証するものです。システム認証を取得し、CFPコミュニケーションプログラムにCFPシステムを登録した企業や団体は、個別のCFP検証の手続きを経ることなく、CFPの登録・公開申請が可能になります。

CFP宣言の信頼性を第三者により評価する仕組みとしては、製品・サービスごとに第三者検証を行う商品別検証方式と、システム認証方式があります。今回、凸版印刷が認証を取得したシステム認証方式は、多くの製品の算定・検証を実施する時にコスト削減や時間短縮を図れ、CFP算定ノウハウを社内で維持できるといった特長があります。

■ 今後の目標

凸版印刷は、持続可能な社会の実現に貢献するため、最先端や最終消費者と協働することで、社会的課題の解決に取り組んでい

**TOSO** 窓辺をかえる、明日がかわる。

企業情報 IR情報 採用情報 グループ会社 お客様サポート

TOP > 製品一覧・WEBカタログ お客様サポート ビジネスユーザー向け情報

TOP > 企業情報 IR情報 > 環境への取り組み > カーボンフットプリント(CFP)とは?

トソーの環境への取り組み

■カーボンフットプリント(CFP)とは?

私たちの身のまわりにある様々な製品は、原材料の調達から生産・輸送・廃棄・リサイクルに至るまでの一生を通じて多くのエネルギーを使用します。また、そのエネルギーの多くは石油などの化石燃料から得られるため、製品のライフサイクルにおける各段階でCO<sub>2</sub>が排出されています。

カーボンフットプリント(CFP: Carbon Footprint of Products)とは、これら製品のライフサイクル全体を通じて排出されるCO<sub>2</sub>を数値化して表示することを行います。CFPを製品に表示するには製品カテゴリーごとに決められたCO<sub>2</sub>算出ルールに基づいて計算を行い、運送機関にて認証※1される必要があります。

当社はカーデンレールにおいて、業界初となるカーボンフットプリントの「システム認証」取得企業※2の1社となりました。今後もカーボンフットプリントへ積極的に取り組むことにより、CO<sub>2</sub>排出量の「見える化」に努め、効率的なCO<sub>2</sub>削減を行なっていきます。

※1: 2009年より、経産省推進主導により実施された「CFP制度移行事業」(2012年4月より社団法人産業環境管理協会による運用)となりました。

※2: 自社内で、製品のCO<sub>2</sub>排出量の算出、検証を求められた企業。

123g CO<sub>2</sub> カーボンフットプリントマーク

「はかり」をモチーフにしたマークに、商品ライフサイクルで排出されるCO<sub>2</sub>排出量を記載。算定の正確性や表示の適切性を満たしていることが検証された商品にマークを付けることができます。

原材料、容器・包装材の調達 輸送 製品の加工・組立・梱包 輸送 流通 輸送・使用 廃棄・埋立

Carbon Footprint of Products 製品のCO<sub>2</sub>の「見える化」カーボンフットプリント

カーボンフットプリントコミュニケーションプログラムのHPサイト

「カーデンレールのカーボンフットプリントの算出例」へ  
「トソー製品のカーボンフットプリントの算定情報一覧」へ