

# Overview of WIPO GREEN and contributions from Japan

## WIPO GREENの概要と日本からの貢献

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Green Technology Marketplace 2021

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# History of WIPO GREEN

## WIPO GREENのこれまでの経緯

UNFCCC adopted  
"Promotion of the transfer of EST".

COP3 Kyoto Protocol  
Emission of GHG -5% from 1990

COP13 Action Plan in Bali

COP16 Discussion for  
"Technology mechanism" started.

COP21 Paris Agreement  
To keep the increase in global average temperature to well below 2°C  
above pre-industrial levels and to pursue efforts to limit the increase to 1.5°C  
"Technology mechanism" was established.

"Sustainable Development Goals to 2030"  
(SDGs) was established.



Green Technology Package  
Platform (GTPP) project  
started in JIPA.

Cooperation of  
JIPA and WIPO  
started.

Official Launch  
of WIPO GREEN  
and its database

Acceleration project  
started and annually held.

Matchmaking events  
2015 in Manila  
2016 in Nairobi  
2017 in Geneva  
2018 in Manila  
2020 in Santiago

Success cases in  
WIPO GREEN reported.  
2017 in Kenya  
2018 in Cambodia

Experts database  
started. JPO registered  
as Partners.

"WIPO GREEN strategic  
plan 2019-2023" started.

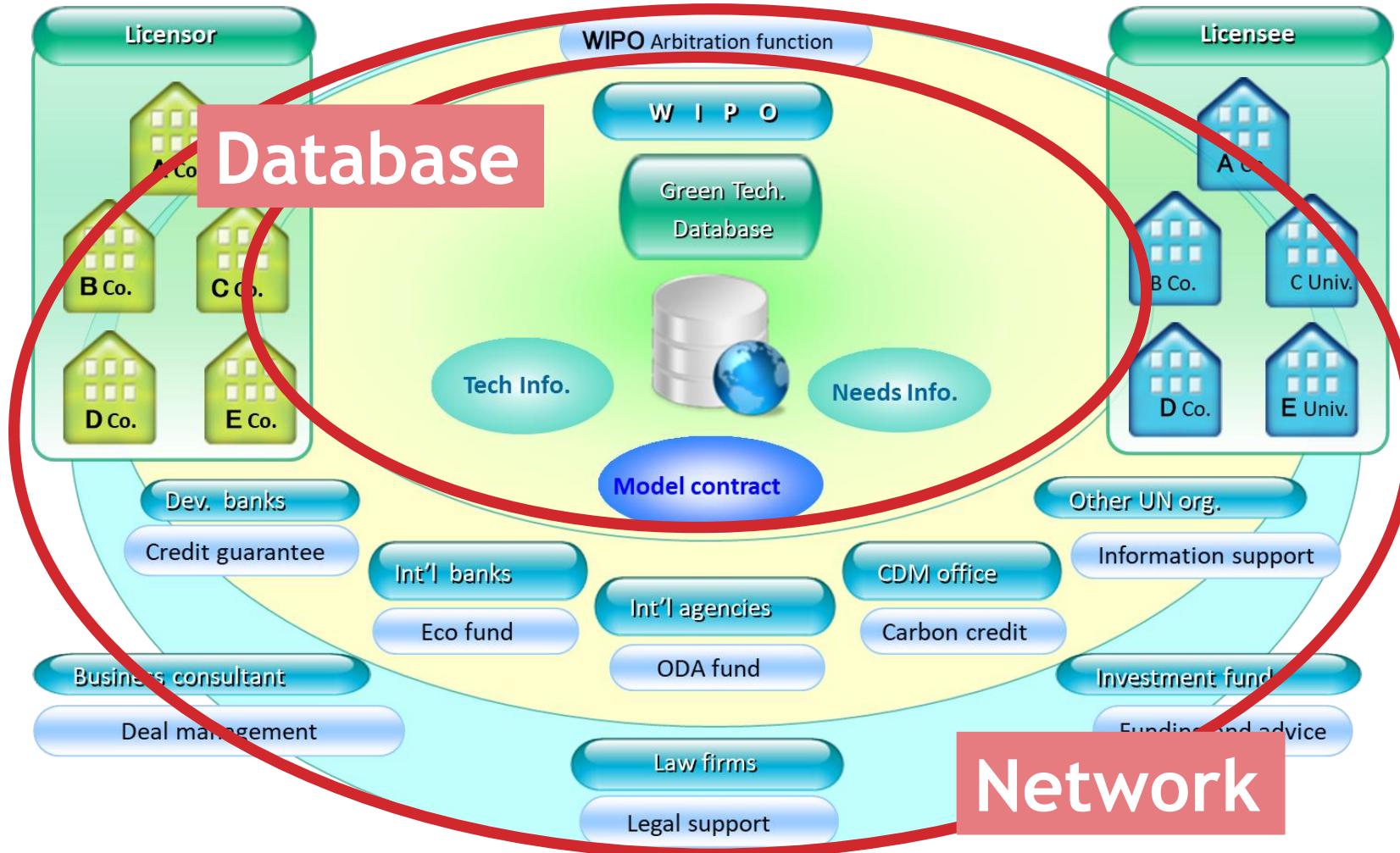
New look and feel design  
of the database will be  
gradually integrated.  
Acceleration Project 2021  
will be held in Indonesia.

At WIPO Headquarter in Geneva  
Mr. Shinha, Indian UN Ambassador,  
Mr. Gurry, General Director of WIPO  
and Mr. Ueno, Chairman of JIPA



# Basic Structure of WIPO GREEN

## WIPO GREENの基本構造



# Website of WIPO GREEN <https://www3.wipo.int/wipogreen/en/>

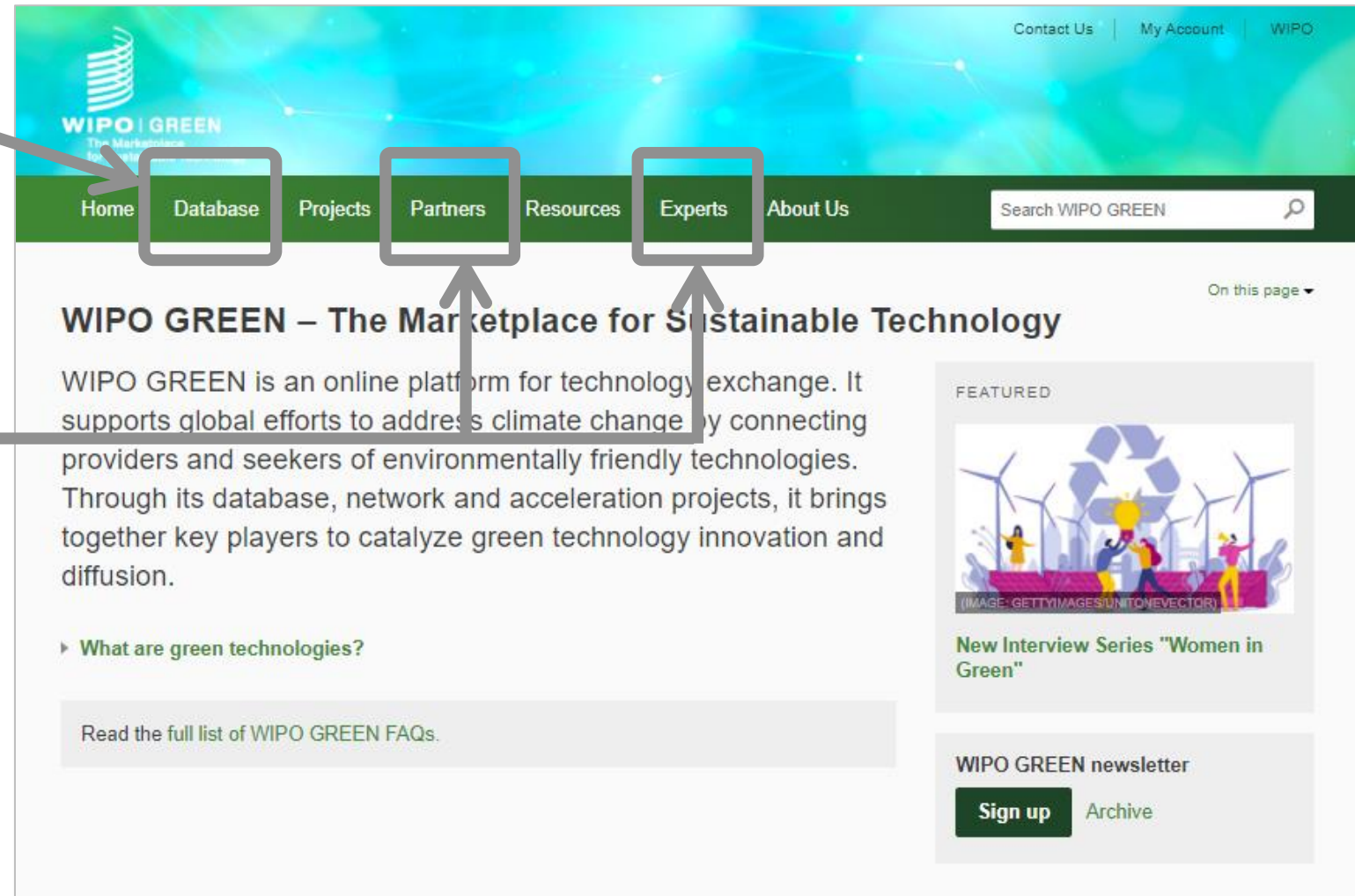
## WIPO GREEN ウェブサイトのトップページ

### Database

- Technology seeds: 3,492
- Technology needs: 256  
(as of January 2021)

### Network

- Network is consisted of Partners and Users (Tech Providers, Tech Seekers, and Experts providing the professional support for technology transfer)
- 119 organizations register as Partners (as of January 2021).





# Database of WIPO GREEN WIPO GREENデータベース

<https://www3.wipo.int/wipogreen-database/>

## WIPO GREEN Database of Innovative Technologies and Needs

The WIPO GREEN database is a unique catalogue of sustainable solutions and needs across the world.

It offers technologies from prototype to marketable products, available for license, collaboration, joint ventures, and sale. It also contains needs defined by companies, institutions, and non-governmental organizations looking for technologies to address specific environmental or climate change problems.



Become a user

## Explore the database

Search

The WIPO GREEN database search is available without registration - use keywords or browse by category.



### Green Materials 1: Gas barrier for food packaging and carbonated drink bottles

The production of beverage bottles must shift from using petroleum-based plastics to carbon-neutral plant-based plastics to reduce carbon dioxide (CO<sub>2</sub>) emissions. Polylactic acid (PLA), a plant-based plastic, has received wide interest for this purpose. At present, huge amounts of polyethylene terephthalate (PET), a petroleum-based plastic, are uti ...

- Last updated: 6月 23, 2020
- Submitted by: Meiji University C

### Green Materials 2: Plastic films a

The problem of food loss/food waste resolved to reduce environmental ir consumption. Sustainable manage implemented to reduce waste gene polysaccharides ...

- Last updated: 6月 23, 2020
- Submitted by: Meiji University C

### Membrane Separation Technolog

This study investigated the polym Carbon dioxide capture and storage emitted from large-scale CO<sub>2</sub> sourc or ocean. CCS is a CO<sub>2</sub> reduction

- Last updated: 6月 23, 2020
- Submitted by: Meiji University C

### Membrane Separation Technolog

This study investigated the polym that H<sub>2</sub> does not generate carbon d source unlike conventional fossil fu generating wide interest. H<sub>2</sub> has a

- Last updated: 6月 23, 2020
- Submitted by: Meiji University C

### Membrane Separation Technology 3: Methane Separation

This study investigated the polymer membranes used in methane (CH<sub>4</sub>) separation. Natural gas recovered from natural gas fields mainly contains CH<sub>4</sub> and low concentrations of carbon dioxide (CO<sub>2</sub>) and water. Therefore, a technique that can selectively remove low-concentration gases from natural gas is warranted. The separation environment for refining ...

- Last updated: 7月 29, 2020
- Submitted by: Meiji University Center for Polymer Science

### Membrane Separation Technology 4: Oxygen-rich Air Production

Oxygen (O<sub>2</sub>) concentration during waste incineration must be improved to save on energy consumption and mitigate global warming. O<sub>2</sub> in the atmosphere is burned during waste incineration. However, most of the atmosphere is made up of nitrogen (N<sub>2</sub>), which is an inert gas. N<sub>2</sub> is discharged outside the incineration facility to retain heat. Therefore, th ...

- Last updated: 6月 23, 2020
- Submitted by: Meiji University Center for Polymer Science

### Membrane Separation Technology 5: Nitrogen-rich Air Production

Gas packaging is generating wide inte without using chemical preservatives. as a food-filled gas for maintaining the oxidation of processed food. N<sub>2</sub> gas is

- Last updated: 6月 23, 2020
- Submitted by: Meiji University C

### Membrane Separation Technolog

Chemicals are extensively used in va our standard of living. However, dispo volatile organic compounds, halogen environmental problem. Several coun this issue. ...

- Last updated: 6月 23, 2020
- Submitted by: Meiji University C

### Membrane Separation Technology 7: Bio-Ethanol Separation

Our planet is facing severe environmental problems, such as air pollution and depletion of fossil fuel resources. In view of these circumstances, bioethanol, which comes from plants, has attracted wide interest as an environmentally friendly energy resource. Bioethanol is concentrated in the manufacturing process via distillation. However, distilla ...

- Last updated: 6月 23, 2020
- Submitted by: Meiji University Center for Polymer Science

### Membrane Separation Technology 8: Bio-Ethanol Vapor Separation

Interest on bioethanol as an alternative to fossil fuels has increased to reduce our dependence on fossil fuels and mitigate global warming. Japan has set the target of producing 500, 000 kL of bioethanol annually. This figure is about twice of that in 2011. Currently, the demand for bioethanol is increasing. In bioethanol production, bioethanol mu ...

- Last updated: 6月 23, 2020
- Submitted by: Meiji University Center for Polymer Science

# WIPO GREEN Partners (119 organizations as of Jan. 2021)

## WIPO GREENパートナーズとして登録している組織

<p><b>A</b></p> <ul style="list-style-type: none"> <li>Advance Water Technologies (UK)</li> <li>African Agricultural Technology Foundation (Kenya)</li> <li>Asian Development Bank (ADB) (Philippines)</li> <li>Asia-Pacific Industrial property Center - Japan Institute for Promoting Invention and Innovation (Japan)</li> <li>Asia IP Exchange / Hong Kong Trade Development Council (China)</li> <li>Association of University Technology Managers (AUTM) (USA)</li> <li>Australian CleanTech (Australia)</li> </ul> <p><b>B</b></p> <ul style="list-style-type: none"> <li>Bluetech Clean Air Alliance (China)</li> <li>Brazilian Forum of Innovation and Technology Transfer Managers (FORTEC) (Brazil)</li> </ul> <p><b>C</b></p> <ul style="list-style-type: none"> <li>CambridgeIP (UK)</li> <li>Canadian Intellectual Property Office (Canada)</li> <li>Canon Inc. (Japan)</li> <li>Center for Intellectual Property and Information Technology Law (CIPIT) (Kenya)</li> <li>CGIAR System Organization (France)</li> <li>China Technology Exchange (China)</li> <li>CleanTechAlps (Switzerland)</li> <li>CleanTek Market (Australia)</li> <li>Climate-KIC (UK)</li> <li>Climate Technology Centre and Network (CTCN) (Denmark)</li> <li>Crosstaff Solutions (Canada)</li> </ul>	<p><b>D</b></p> <ul style="list-style-type: none"> <li>Daicel Corporation (Japan)</li> <li>Danish Patent and Trademark Office (Denmark)</li> <li>Daikin Industries, Ltd (Japan)</li> </ul> <p><b>E</b></p> <ul style="list-style-type: none"> <li>EcoMachines Ventures (UK)</li> <li>Engineers without Borders (UK)</li> <li>Environment Public Authority (EPA) (Kuwait)</li> </ul> <p><b>F</b></p> <ul style="list-style-type: none"> <li>Fujitsu Limited (Japan)</li> </ul> <p><b>G</b></p> <ul style="list-style-type: none"> <li>G-STIC (Belgium)</li> <li>General Electric (USA)</li> <li>Ghana Bamboo Bikes Initiative (Ghana)</li> <li>GIVEWATTS (Sweden)</li> <li>Green Science Alliance Co., Ltd (Japan)</li> <li>Green Technology Bank (China)</li> <li>Green Technology Center (GTC) (Republic of Korea)</li> </ul> <p><b>H</b></p> <ul style="list-style-type: none"> <li>Haier (China)</li> <li>Hitachi, Ltd. (Japan)</li> <li>Honda Motor Co. Ltd. (Japan)</li> </ul>	<p><b>I</b></p> <ul style="list-style-type: none"> <li>IBM (USA)</li> <li>infoDev (USA)</li> <li>Innovation Hub (South Africa)</li> <li>Innovation Insights (Switzerland)</li> <li>inovent (Turkey)</li> <li>Institut National de la Propriété Industrielle (France)</li> <li>Instituto Nacional de Propiedad Industrial de Chile (INAPI) (Chile)</li> <li>Intellectual Property for Sustainable Energy Ventures (USA)</li> <li>Intellectual Property Protection Office (IPPO) (Lebanon)</li> <li>International Chamber of Commerce (France)</li> <li>International Federation of Inventors' Associations (IFIA) (Switzerland)</li> <li>International Federation of Intellectual Property Attorneys (FICPI) (Switzerland)</li> <li>International Green Technologies and Investments Center (IGTIC) (Kazakhstan)</li> <li>International IP Commercialization Council (China)</li> <li>International Trademark Association (INTA) (USA)</li> <li>InvenTrust (USA)</li> <li>IP Nexus (China)</li> <li>IVL Swedish Environmental Research Institute (Sweden)</li> </ul> <p><b>J</b></p> <ul style="list-style-type: none"> <li>Japan Intellectual Property Association (JIPA) (Japan)</li> <li>Japan Patent Attorneys Association (Japan)</li> <li>Japan Patent Office (JPO) (Japan)</li> </ul>	<p><b>K</b></p> <ul style="list-style-type: none"> <li>Kenya Climate Innovation Center (CIC) (Kenya)</li> <li>King Abdullah City for Atomic and Renewable Energy (Saudi Arabia)</li> <li>Konica Minolta (Japan)</li> <li>Kopernik (Indonesia)</li> <li>Korea Technology Finance Corporation (Republic of Korea)</li> </ul> <p><b>L</b></p> <ul style="list-style-type: none"> <li>League of Arab States (Egypt)</li> <li>Leonhard Ventures (Germany)</li> <li>Licensing Executives Society International (LESI) (USA)</li> </ul> <p><b>M</b></p> <ul style="list-style-type: none"> <li>Magnifico GmbH (Switzerland)</li> <li>The Malawi University of Science and Technology (MUST) (Malawi)</li> <li>Meiji University Center for Polymer Science (Japan)</li> <li>Moscow State Institute of International Relations (MGIMO) (Russian Federation)</li> </ul> <p><b>N</b></p> <ul style="list-style-type: none"> <li>National Institute of Industrial Property (INPI Brazil) (Brazil)</li> <li>NEUW Ventures SA (Switzerland)</li> </ul> <p><b>O</b></p> <ul style="list-style-type: none"> <li>Moroccan Office of Industrial and Commercial Property (OMPIC) (Morocco)</li> </ul> <p><b>P</b></p> <ul style="list-style-type: none"> <li>Panasonic Corporation (Japan)</li> <li>Patent Agents Association, India (PAAi) (India)</li> <li>Patenterprise Technologies Holding SA (Switzerland)</li> <li>PatSnap (Singapore)</li> </ul>	<p><b>Q</b></p> <ul style="list-style-type: none"> <li>Qualcomm (USA)</li> <li>Queensland University of Technology (Australia)</li> </ul> <p><b>R</b></p> <ul style="list-style-type: none"> <li>R20 Regions of Climate Change Action (Switzerland)</li> <li>Reed Exhibitions FZ-LLC (United Arab Emirates)</li> <li>Robin Paul Advisory (Malaysia)</li> </ul> <p><b>S</b></p> <ul style="list-style-type: none"> <li>Sabancı University (Turkey)</li> <li>Sagacious Research Private Limited (India)</li> <li>Sathguru Management Consultants (India)</li> <li>Saudi Authority for Intellectual Property (SAIP) (Saudi Arabia)</li> <li>SEED Initiative (Germany)</li> <li>Shiseido Company, Limited (Japan)</li> <li>Shobayashi International Patent and Trademark Office (SIPTO) (Japan)</li> <li>Siemens (Germany)</li> <li>Singapore-ETH Centre for Global Environmental Sustainability (Singapore)</li> <li>Skolkovo Foundation (Russian Federation)</li> <li>Solar Impulse Foundation (Switzerland)</li> <li>SOLBEN (Mexico)</li> <li>Sumitomo Electric Industries, Ltd (Japan)</li> <li>Sumitomo Osaka Cement Co., Ltd (Japan)</li> <li>Swiss Federal Institute of Intellectual Property (IPI) (Switzerland)</li> </ul>	<p><b>T</b></p> <ul style="list-style-type: none"> <li>Team E-Kansai (Japan)</li> <li>TechnologieAllianz (Germany)</li> <li>Technology Development Foundation of Turkey (TTGV) (Turkey)</li> <li>Teijin Limited (Japan)</li> <li>The Ground_Up Project (Switzerland)</li> <li>Tianjin TEDA Energy Group Co., Ltd. (China)</li> <li>Toilet Board Coalition (Switzerland)</li> <li>Tokai National Higher Education and Research System (Japan)</li> <li>Toyo Aluminium Ekco Products Co., Ltd. (Japan)</li> <li>Toyota Industries Corporation (Japan)</li> <li>Toyota Motor Corporation (Japan)</li> </ul> <p><b>U</b></p> <ul style="list-style-type: none"> <li>United Nations Environment Programme (UNEP) (Kenya)</li> <li>United Nations Global Compact (UNGC) (USA)</li> <li>United Nations Industrial Development Organization (UNIDO) (Austria)</li> <li>United Nations Office for South-South Cooperation (UNOSSC) (USA)</li> </ul> <p><b>V</b></p> <ul style="list-style-type: none"> <li>Villgro (India)</li> <li>VisionEdge Technologies (Singapore)</li> <li>Vaultitude (former IPCHAIN) (UK)</li> </ul> <p><b>W</b></p> <ul style="list-style-type: none"> <li>Waseda University Environmental Research Institute (Japan)</li> <li>Waterpreneurs (Switzerland)</li> <li>World Business Council for Sustainable Development (Switzerland)</li> </ul>
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Ref. <https://www3.wipo.int/wipogreen/en/network/partners.html>

## Contributions from Japan: Technology registration

### WIPO GREENへの日本からの貢献：DBへの技術登録

#### Large companies

- Honda Motor Co., Ltd.
- Hitachi, Ltd
- FUJITSU LIMITED
- TEIJIN LIMITED
- TEIJIN Frontier Co., Ltd
- JGC Corporation
- Swing Corporation
- Panasonic Corporation
- Sony Corporation
- SHARP Corporation
- Chugoku Electric Power Co., Inc.
- Mazda Motor Corporation
- Konica Minolta
- DAICEL CORPORATION
- Nissan Motor Co., Ltd.
- Canon Inc.

#### Universities

- Okinawa Institute of Science and Technology Graduate University
- Meiji University Center for Polymer Science
- Tokai National Higher Education and Research System

- Toshiba Corporation
- Shiseido
- Toyo Aluminum Eco Products Co., Ltd.
- Toyota Industries Corporation
- Toyota Motor Corporation
- JX Nippon Mining & Metals Corporation

#### SMEs

- Waseda Environmental Institute Co., Ltd.
- Quantum Design Japan, Inc.
- JAG Seabell Co., Ltd.
- Mitsubishi Chemical Aqua Solutions Co., Ltd.
- IHI Enviro Corporation
- Technoplan Inc.
- Jtop Co., Ltd.
- HINODE SANGYO Co., Ltd.
- OSMO Co., Ltd
- Totetsu MFG Co.
- Optex Co., Ltd.
- International Environmental tech-Research Co., Ltd
- Eternal Vision Inc.
- Green Science Alliance Co., Ltd.



## Examples of Green technology from Japan (SMEs)

### WIPO GREEN DBに登録された日本の環境技術の例

**Mitsubishi Chemical Aqua Solutions Co., Ltd.:**  
**On-Site Water Treatment and Supply System**  
**with a Remote Monitoring System, "WeLLDAS®"**



Ref.  
<https://www3.wipo.int/wipogreen-database/SearchDetailPage.htm?query=International%20Environmental&rows=10&sortby=date&type=all&id=9270>  
<https://www.mcas.co.jp/en/business/water/>

**QUANTUM DESIGN JAPAN INC.:**  
**Bio-Mass ECO-BOILER**



Ref.  
<https://www3.wipo.int/wipogreen-database/SearchDetailPage.htm?query=bio&rows=10&sortby=date&type=all&countryCode=JP&id=8586>

**International Environmental Engineering Co., Ltd.:**  
**Oil production technology and equipment to**  
**converts waste plastics to fuel oil**



Ref.  
<https://www3.wipo.int/wipogreen-database/SearchDetailPage.htm?query=International%20Environmental&rows=10&sortby=date&type=all&id=9270>

**Hinode Sangyo Co., Ltd:**  
**HINODE Microbubble Generator (HMB)**



Ref.  
<https://www3.wipo.int/wipogreen-database/SearchDetailPage.htm?query=hinode&rows=10&sortby=date&type=all&id=8312>

**Green Science Alliance Co., Ltd.:**  
**100 % Nature Biomass made**  
**Bottle Composed of**  
**Biodegradable Resin and Nano**  
**Cellulose Composite.**  
**Replacement of PET bottle**



Ref.  
<https://www3.wipo.int/wipogreen-database/SearchDetailPage.htm?query=&rows=10&sortby=date&type=all&countryCode=JP&companyName=Green%20Science%20Alliance%20Co.,%20Ltd.&id=10752>



# Examples of Green technology from Japan (Universities)

## WIPO GREEN DBに登録されている日本の環境技術の例

### Waseda University Environmental Research Institute: Introduction of Ultra Light-weight Vehicle (ULV)



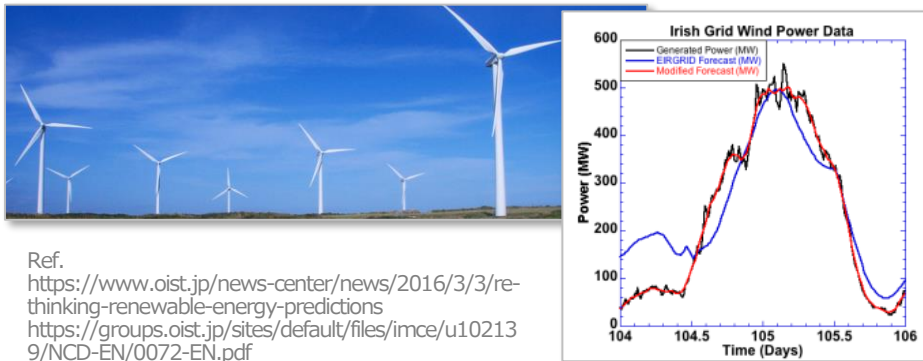
Ref.  
<https://www.jpo.go.jp/e/news/kokusai/green.html>

### Meiji University Center for Polymer Science: Introduction of Membrane technology for separating and recovering CO<sub>2</sub>



Ref.  
<https://www.jpo.go.jp/e/news/kokusai/green.html>

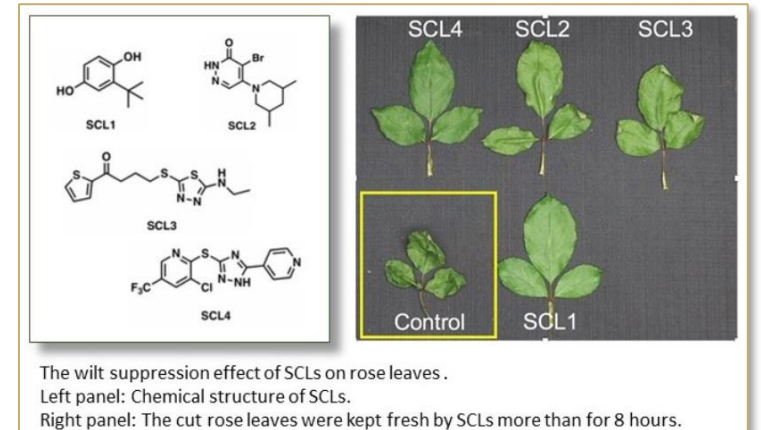
### Okinawa Institute of Science and Technology Graduate University (OIST): Renewable Energy Forecast Error Correction



Ref.  
<https://www.oist.jp/news-center/news/2016/3/3/re-thinking-renewable-energy-predictions>  
<https://groups.oist.jp/sites/default/files/imce/u102139/NCD-EN/0072-EN.pdf>

### Tokai National Higher Education and Research System: Novel Compounds that Keep Plants Fresh: Controlling Stomatal Aperture

Ref.  
<https://www3.wipo.int/wipogreen-database/SearchDetailPage.htm?query=&rows=10&sortby=date&type=all&countryCode=JP&companyName=Tokai%20National%20Higher%20Education%20and%20Research%20System&id=20067>



The wilt suppression effect of SCLs on rose leaves.  
Left panel: Chemical structure of SCLs.  
Right panel: The cut rose leaves were kept fresh by SCLs more than for 8 hours.

## Contributions from Japan: Acceleration projects

### WIPO GREENへの日本からの貢献：現地ニーズ調査プロジェクト

- **Supported by JPO, IP office of Australia, French or Chile etc. each year from 2014 to current**  
2014年から現在まで、日本特許庁をはじめとした各国知財庁からの支援により、ほぼ毎年実施
- **Focused on some technology fields and specified to some countries in Asia, Africa or South America each year**  
各年ごとに、2,3の技術領域に焦点をあて、2,3の国々に特化する
- **Green technology needs are searched by reliable experts in the specified geographical region.**  
現地の信頼できるエキスパートによる環境技術ニーズの調査を行う
- **Identified needs are put into the WIPO GREEN DB and the matching event between the tech-seekers and providers is held.**  
特定されたニーズ情報はWIPO GREEN DBに入れられ、さらに、技術ニーズを持つ人々とそれに対応する技術を持つ人々たちのマッチングイベントを行う。
- **If there is some possibility of the need/seed matching, both parties exchanged Letter of Intent (LOI) and move on to the more precise discussion toward the technology transfer.**  
もし、マッチングの可能性がある場合、両者の間でLOIを締結し、より詳細な検討に進んでもらう。



2015 Manila



2016 Nairobi



2018 Manila



# Contributions from Japan: Acceleration projects

## WIPO GREENへの日本からの貢献：現地ニーズ調査プロジェクト

In the case of 2018,

- **Technology fields: energy, water and agriculture**  
調査対象とした技術領域はエネルギー、水、および農業分野
- **Geographical areas: Indonesia, Cambodia and the Philippines**  
調査地域はインドネシア、カンボジア、およびフィリピン
- **Around 40 new needs were identified and they were translated into Japanese and provided to Japanese stakeholders**  
約40件の新たな環境技術ニーズが見いだされ それらを和訳して幅広く日本の関係機関に紹介した
- **Matchmaking event was held at ADB Headquarter in Manila and around 80 stakeholders gathered.**  
マッチメイキングイベントがマニラのADB本部で開催され、約80名が参加した（日本からは富士通、UNIDO東京、および私が参加）
- **Seven Letter of Intent (LOI) were exchanged, including one between Japanese company of remote water management technology and NGOs active in Cambodia and Indonesia.**  
7件のLOIが締結され、そのなかには遠隔操作による水道管理技術を持つ日本企業とカンボジア、インドネシアで活動するNGOとの間で締結されたものも含まれる。

### 水処理キオスク／ステーションのための の遠隔水質モニタリング技術がない

URL: <https://www3.wipo.int/wipogreen-database/SearchDetailPage.htm?query=&type=all&id=NGREEN5901>  
登録者: Teuk Saat 1001 <http://www.teuksaat1001.com/>  
登録日: 2018 年 4 月 23 日

Teuk Saat 1001 はフランス NGO である "1001 Fontaines" <https://www.1001fontaines.com/fr> のパートナーであり、カンボジアでコミュニティによる、カンボジアの村地域における地方フランチャイズを通じて水濾過プラントにより安全な飲料水使用を支援する非営利社会起業家として活動する NGO として登録されている。

Teuk Saat 1001 では、それぞれのプロジェクトで自然環境を守るため、燃料と電力効率の良い、85W から 100W の光起電性パネルを用いた太陽光水処理キオスクを設置している。水処理は高品質を確保するためいくつかの段階を経る。サイズは変わることもあるが、20L のコンテナで飲料水を供給し、家事における水を沸騰させる必要をなくして、二酸化炭素発生量の軽減を図っている。水コンテナは 6〜8 か月間再使用可能なボトル（一回の使用ではプラスチックゴミをださない）である。

Teuk Saat 1001 は現在、現地で水の状態を遠隔管理できるように、水処理フィルターと GPRS シグナルを結びつける技術を探している。

#### ニーズの特徴

- ・ 技術分野: 水利用効率化、水処理
- ・ シーズ募集期限: 2019 年 12 月 31 日
- ・ プロジェクトの経済価値予測: Teuk Saat 1001 はカンボジアにおいて、約 200 の水キオスク／ステーションを結ぶことを計画している。
- ・ 対象国: カンボジア
- ・ 特に対象となる地域: プノンペン

#### 関連する事項

- ・ 規制関連: 予見できることはない。

#### 必要とする支援

- ・ 技術移転: 製品購入、プロジェクト開発、技術支援
- ・ 知財支援: 特許案の作成、ライセンス契約交渉

#### 追加情報

Teuk Saat 1001 の水キオスク



## Success cases from the Acceleration projects マッチングイベントから生み出された技術移転の成功事例

### 2016 Matching event in Nairobi

Piloting the AquaCAPTURE  
Smart Meters System

スマート・メーター・システム  
「AquaCAPTURE」を試験運用



A letter of intent signed between the parties at the 2016 East Africa water and agriculture matchmaking seminar in Nairobi allowed SwissQuest to undertake a pilot project with KWAUASCO as proof of concept. After a successful pilot, in the first phase the parties will scale up to 1,000 users in Ukunda, Kwale County, with the potential to reach 20,000+ customers served by KWAUASCO.

Ref. WIPO GREEN Year in Review 2017  
[https://www.wipo.int/edocs/pubdocs/en/wipo\\_pub\\_greenreport\\_2017.pdf](https://www.wipo.int/edocs/pubdocs/en/wipo_pub_greenreport_2017.pdf)

### 2017 Matching event in Geneva

Enabling safe drinking water treatment and supply with integrated micro-payments

マイクロペイメントの統合により、  
安全な飲料水の処理と供給を実現



Cubo has recently deployed this drinking water system to Murang'a village in Kenya, supplying safe drinking water to approximately 1,000 people. It will also be integrating Susteq technology into its established deals to supply parts of the Nigerian market as well as, potentially, the Indian market. As a result of this collaboration, Cubo and Susteq will be able to bring affordable, safe drinking water to over 20,000 beneficiaries in Nigeria next year, with the potential to further impact Kenya and Nigeria.

### 2018 Matching event in Manila

Improving Rural Electricity  
Access in Underserved Areas

行政サービスが行き届いていない農村地域での電力アクセスを改善



Solar panel installed by Okra, one of the technology seekers identified in Cambodia, at a pilot household in Takeo Province.

Okra Solar, a smart micro-grid technology provider in Cambodia, connected with French NGO Entrepreneurs du Monde at the WIPO GREEN Southeast Asia Matchmaking Event and are now collaborating on a project to improve electricity access in rural Cambodia. Entrepreneurs du Monde has already distributed solar power systems equipped with a pay-as-you-go mechanism to at least 60 households in Cambodia. With support from partners like Entrepreneurs du Monde, Okra smart micro-grids have



## Contributions from Japan: Participation as Partners

### WIPO GREENへの日本からの貢献：パートナーズとしての参加

#### Public and experts organizations

- Japan Patent Office (JPO)
- Team e-Kansai
- Japan Intellectual Property Organization (JIPA)
- Japan Patent Attorneys Association (JPAA)
- Japan Institute for Promoting Invention and Innovation (JIPII)
- Shobayashi International Patent and Trademark Office (SIPTO)

#### Universities

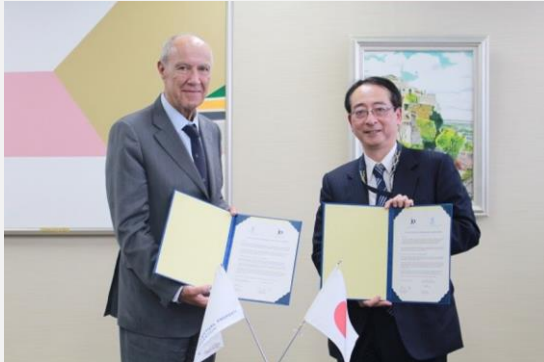
- Meiji University Center for Polymer Science
- Waseda University Environmental Research Institute
- Tokai National Higher Education and Research System

#### Companies

- Teijin Limited
- Fujitsu Limited
- Canon Inc.
- Daikin Industries, Ltd
- Daicel Corporation
- Hitachi, Ltd.
- Honda Motor Co. Ltd.
- Konica Minolta
- Panasonic Corporation
- Shiseido Company, Limited
- Sumitomo Electric Industries, Ltd
- Sumitomo Osaka Cement Co., Ltd
- Toyo Aluminum Eco Products Co., Ltd.
- Toyota Industries Corporation
- Toyota Motor Corporation
- Green Science Alliance Co., Ltd

# Contributions from Japan: JPO/WJO/JIPA's activity

## WIPO GREENへの日本の貢献：JPO/WJO/JIPAの新たな活動



Japan Patent Office participated in WIPO GREEN as a Partner.



WIPO Japan Office invited "Tokai National Higher Education and Research System" as a WIPO GREEN Partner.



Japan Intellectual Property Association further promoted WIPO GREEN to its member companies.

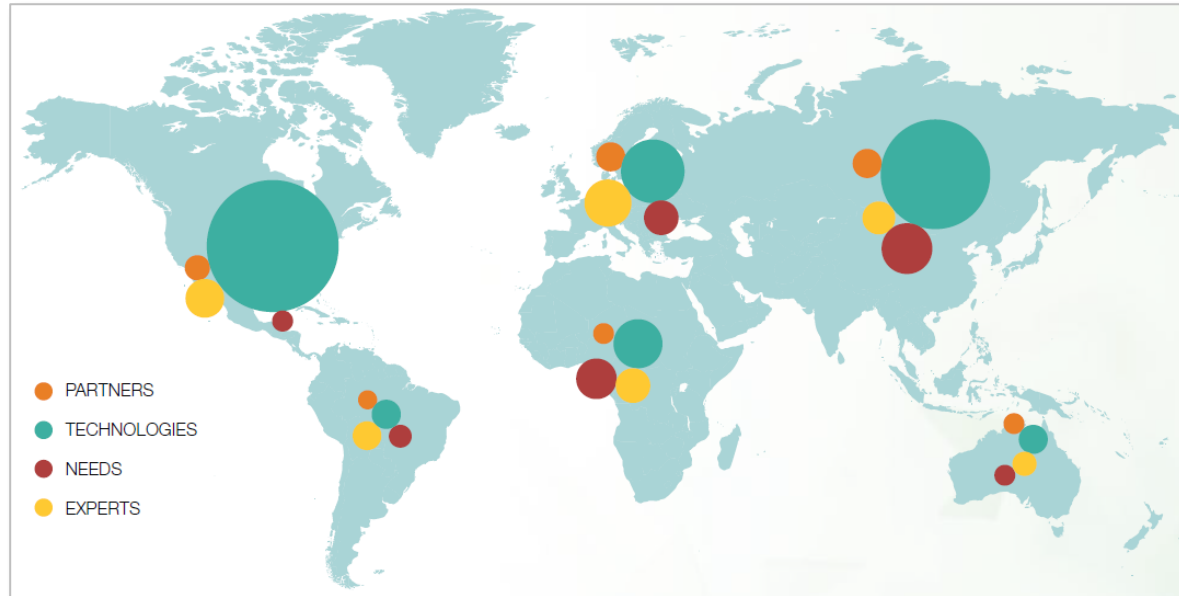


Fujitsu started the SDGs project with the other WIPO GREEN Partners companies.

Ref.  
<https://www.jpo.go.jp/e/news/kokusai/green.html>

# WIPO GREEN: Global marketplace for sustainable technology

WIPO GREENはグローバルな環境技術市場である



Ref. WIPO GREEN brochure 2019



At COP21 in Marrakech 2016

With Dr. Edward Mungai of  
KCIC in Tokyo 2019



## Principles of WIPO GREEN 憲章における原則（抜粋）

- **Transparency** in the marketplace leads to greater efficiency.  
マーケットプレースの**透明性**がより一層の効率をもたらす。
- **Partnerships** are critical to achieving synergies and fostering the transfer of technologies, and, as appropriate, associated know-how.  
**パートナーシップ**は、必要に応じて、技術及び技術に関連するノウハウの相乗効果を実現し、技術の移転を促進するうえで決定的に重要である。
- A comprehensive **understanding of needs** is essential for effective deployment of green technology.  
**統合的なニーズの理解**は、グリーン・テクノロジーの効果的な展開のために不可欠である。
- IP rights are an important policy tool to **encourage innovation**.  
知的財産権は、**イノベーションの促進**のための重要な政策的ツールである。
- The sustained deployment and uptake of technologies occurs when **parties freely enter into a contract** on mutually agreed terms.  
技術の持続可能な展開と採用は、相互に合意された条件に基づいて**当事者が自由に契約を結ぶ**ときに可能となる。

Ref. WIPO GREEN Charter 2013

# Contributions to SDGs through WIPO GREEN activity

## WIPO GREENにより、我々はSDGsにどのように貢献できるか

**17** PARTNERSHIPS  
FOR THE GOALS



### The Impact of climate changes by the SDGs

#### High impact



#### Medium impact



### WIPO, innovation and the SDGs



*Adapted from Intergovernmental Panel on Climate Change, Special Report on Climate Change, Desertification, Land Degradation, Sustainable Land Management, Food Security, and Greenhouse Gas Fluxes in Terrestrial Ecosystems.*

Ref.  
<https://www.wipo.int/sdgs/en/story.html>

Ref. WIPO GREEN brochure 2019

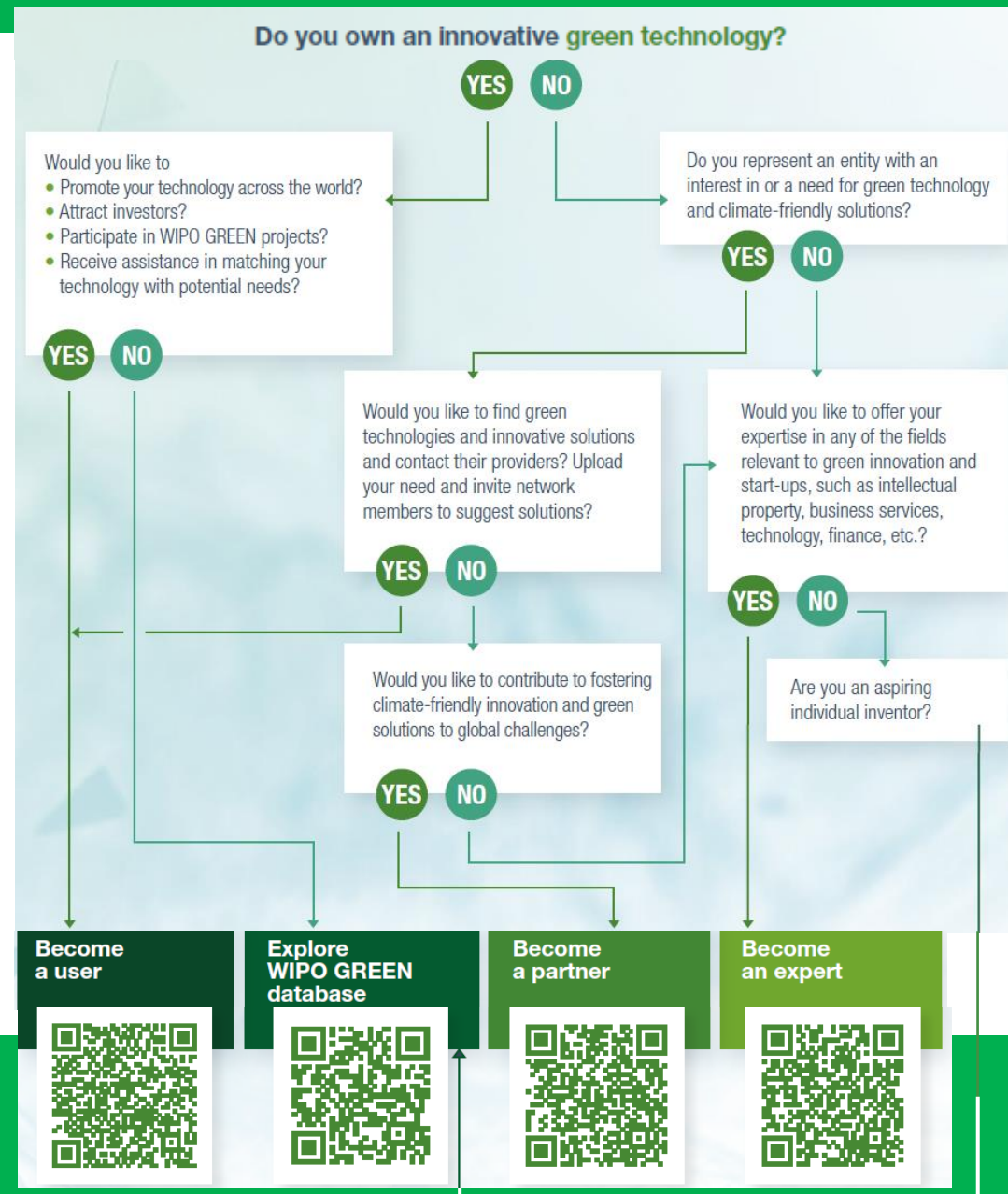


## Issues to be solved for the future of WIPO GREEN WIPO GREENの今後の展開に向けて解決すべき課題

- **Further promotion of WIPO GREEN to Japanese stakeholders**  
さらに多くの日本の環境技術関係者の参加をめざす
- **Further Improvement of the database, especially that of its Green-tech NEEDS information**  
データベース、特にニーズ情報のさらなる向上に貢献する
- **Proposal to the process of Green technology transfer, especially for the financial supports**  
環境技術の移転に向けたプロセス、特に資金面での支援方法を提案する
- **Realization of the success cases of Green business based on the tech-transfer from Japan as the outcome of WIPO GREEN**  
WIPO GREENからの成果として日本からの技術移転に基づく、環境ビジネスの成功例を数多く生み出す

## How to get involved in WIPO GREEN WIPO GREENへの参加方法

Ref. WIPO GREEN brochure 2019



Please scan the QR code depending on how you will get involved.  
どのような形でWIPO GREENに参加するかにより、  
各々の登録サイトに移動できます。

# Thank you for your attention.

ご静聴ありがとうございました。

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