



WIPO Regional Forum

wipo green

- The sustainable Technology Marketplace-

Sri Lanka
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The objectives – *wipo green*

The acceleration of:

- **Adaptation**
- **Adoption and**
- **Deployment**

of “green” technologies, particularly in developing countries and emerging economies.

Environmentally Sound Technology (green technology)

Chapter 34 Agenda 21 (The United Nations Programme of Action from Rio, 1992)

“[they] protect the environment, are less polluting, use all resources in a more sustainable manner, recycle more of their wastes and products, and handle residual wastes in a more acceptable manner than the technologies for which they were substitutes.”

These “include know-how, procedures, goods and services, and equipment as well as organizational and managerial procedures.”

Green technologies on the wipo green database



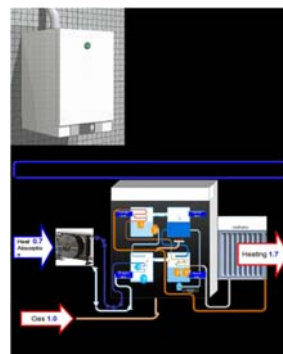
Energy Management from Waseda Environmental Institute



Pineapple paper From Universiti Teknologi Malaysia (UTM)

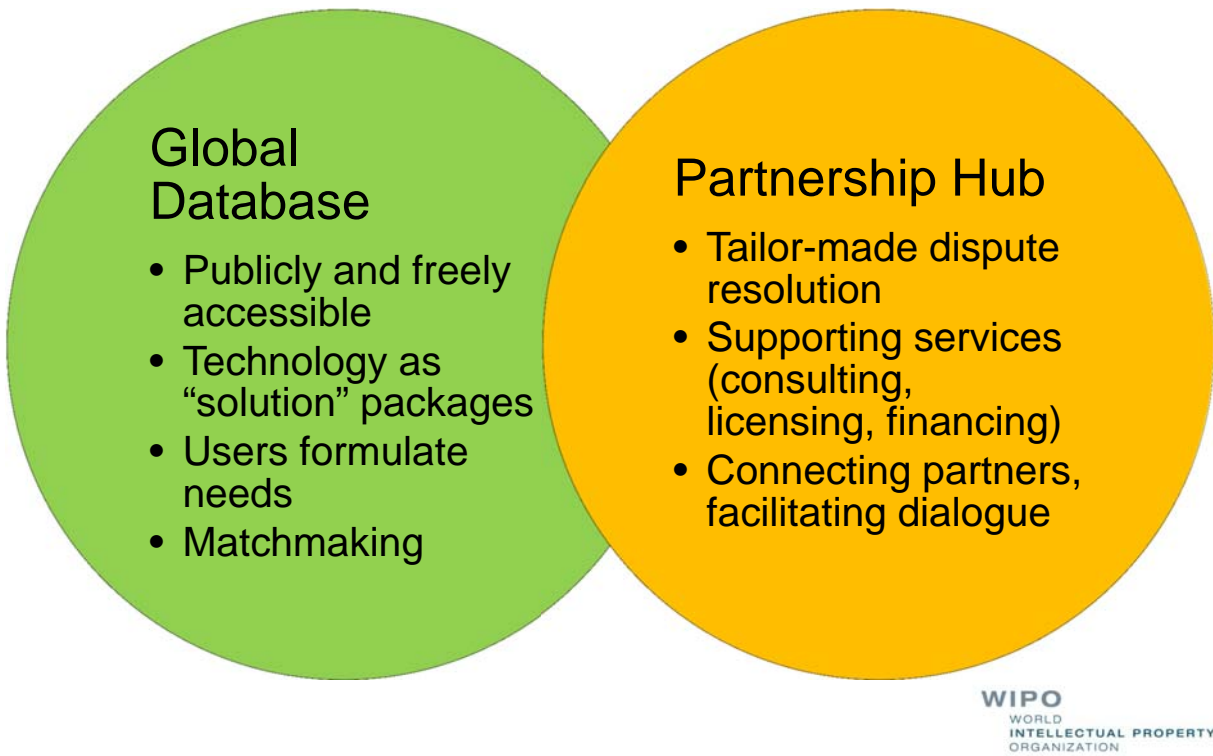


Vertical Green Biobed for the efficient degradation of pesticides From University of Geneva

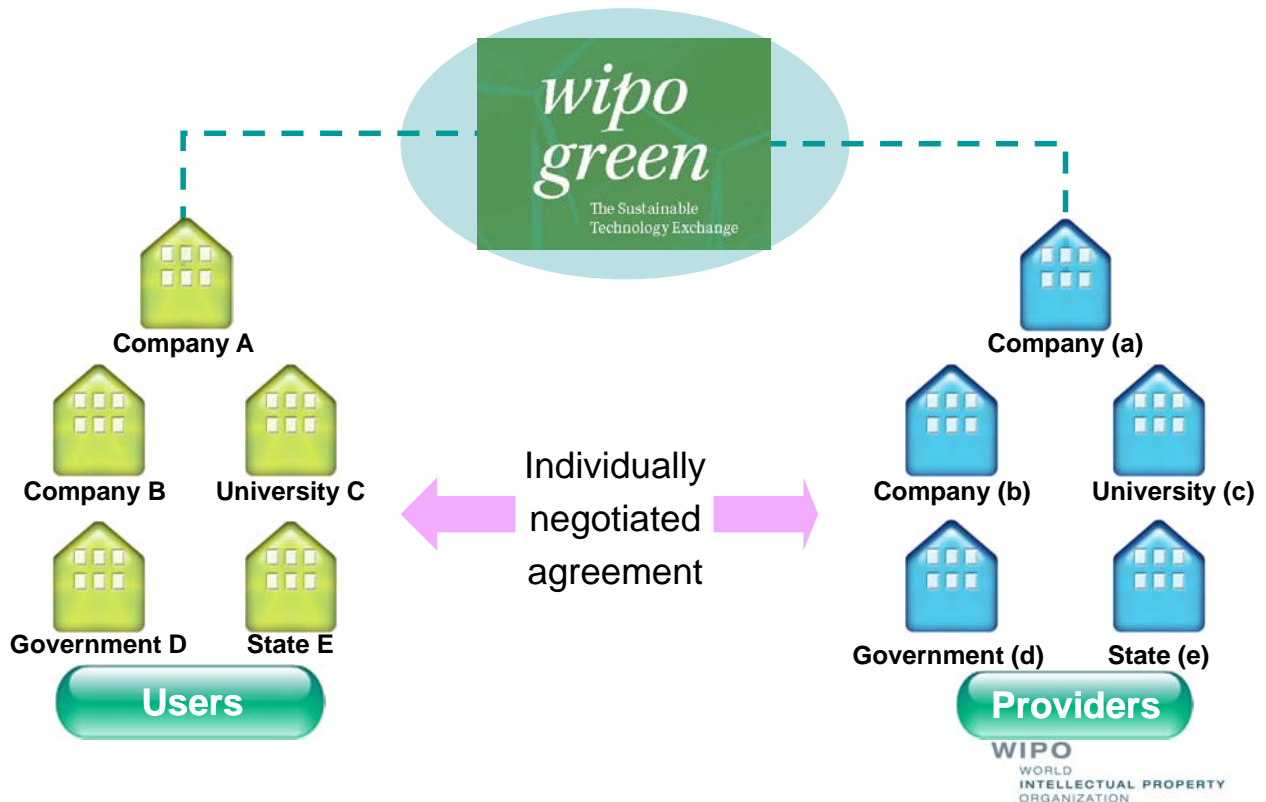


Organic absorption heat pump system From Honda

The key components



wipo green – The Sustainable Technology Marketplace



Benefits

- ✓ More **transparent** marketplace
- ✓ Comprehensive **information** sharing
- ✓ **Inclusive and diverse**, with broad participation
- ✓ **Equal opportunity** in accessing supporting services
- ✓ Broad and flexible mechanism encouraging many **different business models**

Technology Description from MIT

Technology Details > Solar Power Tower with Direct Absorption of Solar Radiation in a Salt Bath with Nanoparticles	
Technology Features	
Description:	Light from the collecting mirrors is reflected by mirrors in the solar power tower to an insulated salt-filled tank on or under the ground. The focused light strikes a transparent fluoride or chloride salt bath containing nanoparticles. Fluoride and chloride can operate at temperatures significantly above 10000C. Most of the light enters the molten salt and is absorbed by nanoparticles within the salt. The use of nanoparticles allows controlled bulk heat absorption rather than heat absorption on a heat transfer surface. The salt bath both collects and stores the energy. The system is designed to absorb solar radiation through a volume of a molten ternary eutectic salt. Light from the collecting mirrors is reflected to an insulated salt-filled tank on or under the ground. The focused light strikes a transparent fluoride or chloride salt bath containing nanoparticles. Fluoride and chloride can operate at temperatures significantly above 10000C. Most of the light enters the molten salt and is absorbed by nanoparticles within the salt. The use of nanoparticles allows controlled bulk heat absorption rather than heat absorption on a heat transfer surface. The salt bath both collects and stores the energy. The system efficiently absorbs solar radiation through the volume of molten salt and retains the energy for gradual release into a heat exchange system. The typical operating temperature of the device is 8000C to 10000C. The device can be combined with solar collection apparatus and heat exchanging mechanisms. efficiency can be mapped as a function of the receiver location and optimal sites found.
Major Resources to be Saved/Improved:	Land, Other
Summary of Benefits:	Increase of 30-40% in efficiency over current technologies, low capital costs, higher efficiency
Technology Type:	Design
Technical Field(s):	Alternative energy production > Solar energy
Development Stage:	At usable level
Project Record:	
Intellectual Property	
Patent Number:	US Patent Application 12/886039 (9/29/10)
Office:	United States of America
Patent Number:	US Patent Application 12/886052 (9/20/10)
Office:	
Patent Number:	CT Patent Application PCT/US2010/049474 (9/20/10)
Office:	International Bureau of WIPO
Conditions for Use	
Collaboration Type:	License
Preferred Region/Business area:	United States
Available Technical Assistance:	Documentation

Technology Form

Technology Solution Technology Need

Upload technology - including know-how, services and materials needed to implement it - for which you would like to find a buyer, a licensee or some other sort of partnership.
All information must be submitted in English. All fields marked with * are mandatory.

1. TECHNOLOGY FEATURES

Title *

Collaboration Partners (max 4000 chars)

Description of Technology (max 4000 chars) *

Insert image (gif, jpg, jpeg, png)

Technical Field * ***** Please Select *****

Keywords (comma separated)

Type of Technology

Process Design Material System or software Device or equipment Facility

2. EFFECTS

Major Resources to be Saved/Improved

Solid Fuel Oil Natural gas Electricity Water Land Air Other

Technology Benefits Summary (max 4000 chars) *

3. DEVELOPMENT STATUS

Development Stage ***** Please Select *****
(options: Under R&D; At usable level; Proven record of commercial use)

Project Record (max 4000 chars)

4. INTELLECTUAL PROPERTY

Type of patent number ***** Please Select *****

Patent Number

Office ***** Please Select *****

5. CONDITIONS FOR USE

Type of Collaboration Sought *

License Sale For Service For Research Collaboration R & D Contract or Joint Venture

Other (Please specify)

Preferred region, business area (max 4000 chars) *

Available Technical Assistance *

Documentation Materials Personnel/Training

Other

Please specify what you can offer

6. E-MAIL ALERT

Get Alert I would like to receive email notifications when a new technology need is entered matching this technology package

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Need Form

Describe your technology needs, including background information, such as any specific region of operation or whether you are seeking financial assistance.
All information must be submitted in English. All fields marked with * are mandatory.

1. NEED FEATURES

Title *

Description of Need (max 4000 chars) *
(Including, e.g. preferred region and financial needs)

Technical Field * ***** Please Select *****

2. E-MAIL ALERT

Get Alert I would like to receive email notifications when a new technology package is entered matching this technology need

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The business cases (1)

SMEs

- ✓ Specific niche markets
- ✓ Looking for more opportunities in different geographic regions
- ✓ Obtaining specific assistance



- ✓ Means to obtain financing
- ✓ Sales opportunities
- ✓ Technology opportunities
- ✓ Partnering opportunities

Developing countries

- ✓ Technology Needs Assessments
- ✓ Needing improved technologies
- ✓ Obtaining specific assistance



- ✓ Accelerated access to technologies
- ✓ Supporting services

The business cases (2)

Large Companies

- ✓ Market and technology reach



- ✓ Opportunities to enter new markets and to reach out to new partners.
- ✓ Expanding options for companies in their search for solutions
- ✓ Reputational benefits: proactively engaged in promoting the uptake of green technologies

Academic Institutions

- ✓ High quality, early stage technologies
- ✓ Little means to benefit from technical support from and to other countries



- ✓ Finding new partners with the capacity to develop, adapt or commercialize new technologies

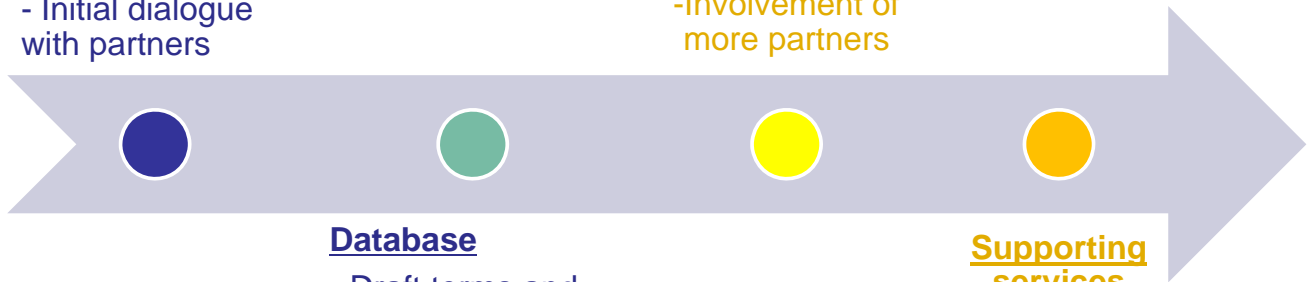
Progress to date

Concept

- Roadmap
- Initial dialogue with partners

Partnership Hub

- Involvement of more partners



Database

- Draft terms and conditions
- Consultation with companies
- Complete pilot version

Supporting services

- Consulting, Financing

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Partnership Hub

Supporting services

- Training
- Consulting
- Financing
- Dispute resolution

Connect partners

- Network opportunities with Industry, UN organizations, governments, universities
- Policy dialogue



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The screenshot shows the WIPO GREEN website interface. At the top, there is a navigation bar with the WIPO GREEN logo and the text "The Sustainable Technology Marketplace". Below this, a dark blue banner contains the text "WORLD INTELLECTUAL PROPERTY ORGANIZATION". The main content area is divided into several sections: a left sidebar with links like "WIPO GREEN Charter", "Background", "User Services", "Partners", and "FAQ"; a central header "WIPO GREEN - The Sustainable Technology Marketplace"; a paragraph describing the platform's mission; a "WIPO GREEN:" section with a bulleted list of services; a "Recently Added Resources" section with a search filter for "Technology" and "Need"; and a featured resource titled "Vertical Green Biobed for the efficient degradation of pesticides (Sep 22, 2011)". A "Terms of use" link is visible at the bottom right of the page.

Pilot version is available at www.wipo.int/green

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WIPO Global Challenges Division

wipo green team

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