



**WIPO | GREEN**

The Marketplace  
for Sustainable Technology

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**WIPO**  
WORLD  
INTELLECTUAL PROPERTY  
ORGANIZATION

# What is WIPO?

WIPO is the World Intellectual Property Organization which is a specialized agency of the United Nations

- ❑ 187 Member States = around 95% of all countries
- ❑ 250+ accredited observers
- ❑ Secretariat based in Geneva, Switzerland
- ❑ Over 1,300 employees from > 100 countries
- ❑ Over 90% self-financed through fee-paying services (PCT, Madrid, The Hague, AMC)
- ❑ Our goal is to make IP work. For everyone.



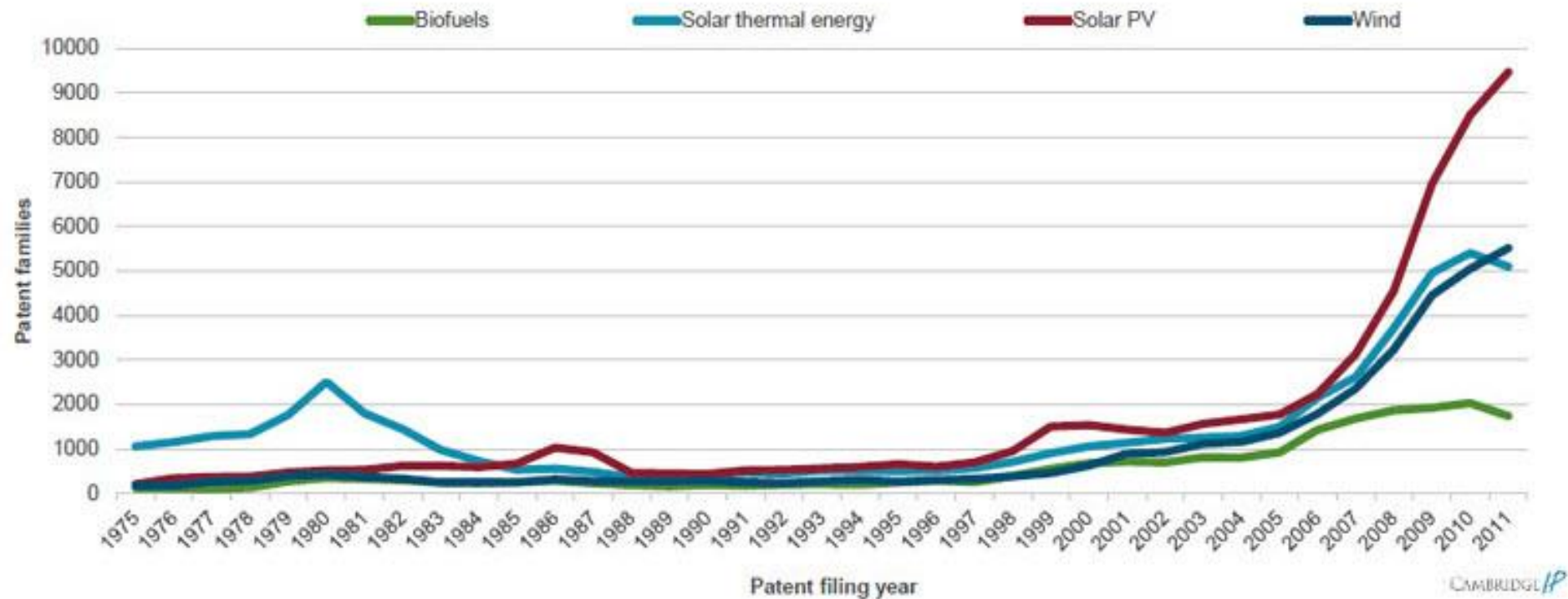
# Background

- ❑ United Nations Framework Convention on Climate Change
  - ❑ Many countries are vulnerable to the negative effects of climate change
  - ❑ There is a lack of domestic resources to support projects and innovations that would, for example, help stave off agricultural disasters or ease the transition to a clean energy economy.
  - ❑ The magnitude of need requires close cooperation between developing and developed countries
  - ❑ Realization that green technologies need extra assistance to maximize their chance of having an impact and reaching the market or end user

# Boom in Renewable Energy Technologies

- More [patents](#) have been filed in the last 5 years than in the previous 30 years in biofuels, solar thermal, solar photovoltaics and wind energy.
- Average global rate of patent filing grew by 6 per cent between 2006 and 2011, these technologies experienced a combined growth rate of 24 per cent over the same period— four times the rate of growth.

Global patent application trends for selected CCMTs:  
1975 - 2011



# How can WIPO...

- encourage this boom to impact on the global market?
- increase the spread of green technologies?
- help to match those who produce green technology and those who need it?
- encourage collaborations and partnerships in different fields of green technology?

# The answer: WIPO GREEN

WIPO GREEN is an interactive marketplace that connects green technology providers with those seeking innovative solutions to combat environmental challenges.

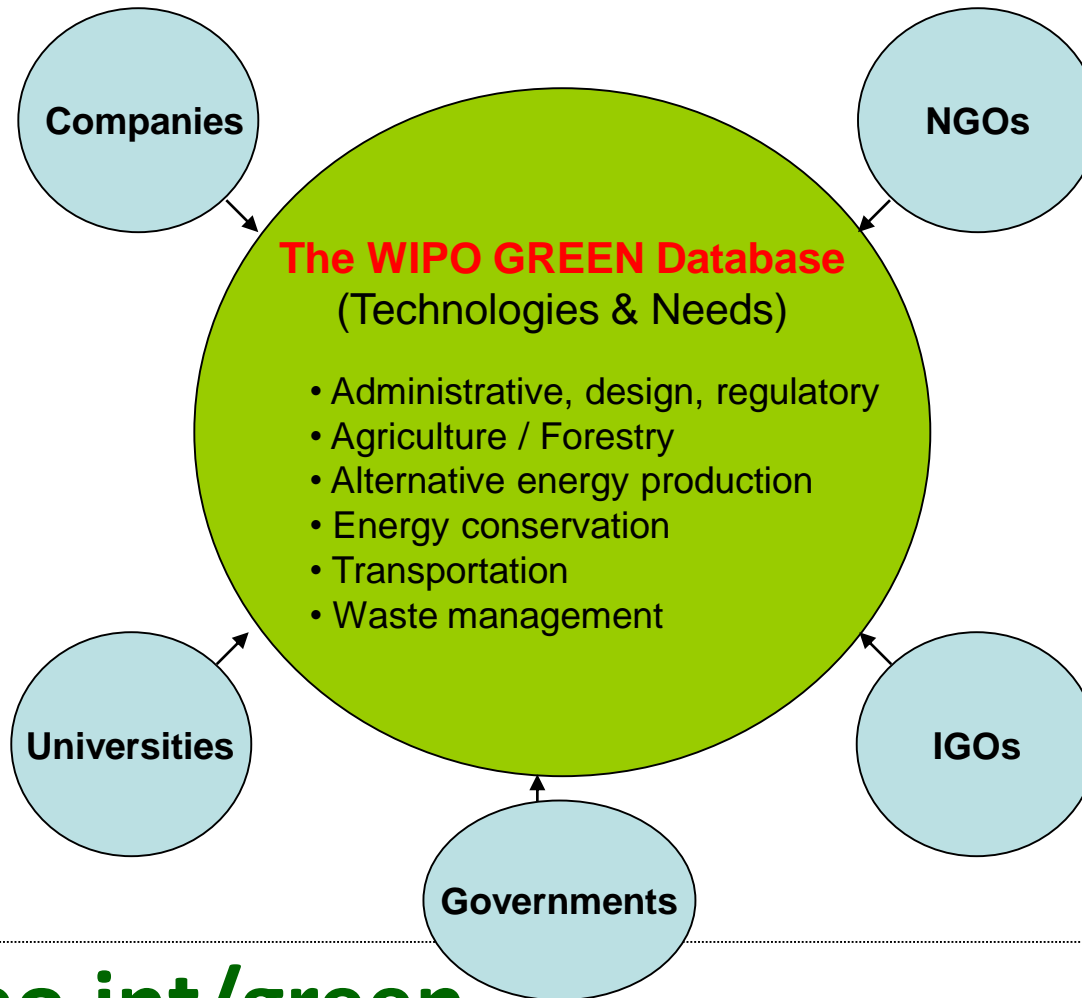
## The Two Main Components:

1. The **WIPO GREEN DATABASE**, freely accessible, offers listings of:
  - Needs** for green products, processes, know how transfer, collaboration and finance
  - Green technology** in the form of products, services and IP assets
2. Coming soon: The **WIPO GREEN NETWORK** connects green technology producers/owners with professionals with expertise in green technology.

[www.wipo.int/green](http://www.wipo.int/green)

# Overview

## The WIPO GREEN Network



[www.wipo.int/green](http://www.wipo.int/green)

# The Benefits to Technology Producers (green inventors)

- Promote your technology to a world wide market for **free**
  - Potential to enter new markets
  - Greater visibility and exposure of your products/services
- Can list products/assets for sale or license
- Connect with large and small companies, intergovernmental and non-governmental organizations, universities, innovators and governmental agencies from around the world
- Identify green technology needs in different regions
- Access WIPO and third party resources and services to accelerate transactions



# The Benefits to IP Agents and IP Lawyers

- ❑ Introducing clients to WIPO GREEN and listing them in the database is a value added service by providing your clients with worldwide exposure at no cost
- ❑ Increase the chance of your client commercializing their technology which may result in more work for their advisers

[www.wipo.int/green](http://www.wipo.int/green)

# The Database

- ❑ Advertises technological needs
- ❑ Useful resource for investors, entrepreneurs and licensing managers looking to construct and execute deals in the green technology space
- ❑ Potential to identify who is doing what with a view to collaborate or share expertise
- ❑ Currently 1,253 different entries for green technology
- ❑ Unique because it assembles technologies at all stages of development, from upstream research to marketable products (and everything in between). These technologies are available for license, collaboration, joint ventures and sale.

[www.wipo.int/green](http://www.wipo.int/green)

# The Database: [www.wipo.int/green](http://www.wipo.int/green)



About WIPO GREEN

WIPO GREEN Network

WIPO GREEN Database

## You searched for: photovoltaic cells

Showing 1 - 10 of 171 results in 0.05 Seconds. Sorted by 'relevance'

### Efficiency Enhancement of Photovoltaic Cells

The solar market is growing at a rapid speed; annual shipments of solar cell modules have been increasing at a rate of over 30% in the past few years. Demand for increasingly more efficient photovoltaic cells is consistently growing. Photovoltaic cells utilizing this technology may have inefficiencies of 20% or more over current cells.

...

**Edited:** JULY 08, 2014

**Published by:** University of North Carolina Charlotte

**AUTM-WIPO  
Collaboration**

### CdS/CdTe Photovoltaic Cells with Improved Electrode Contacts

Brief Description: This invention covers a new material for the back electrode contact in CdS/CdTe

## Efficiency Enhancement of Photovoltaic Cells

The solar market is growing at a rapid speed; annual shipments of solar cell modules have been increasing at a rate of over 30% in the past few years. Demand for increasingly more efficient photovoltaic cells is consistently growing. Photovoltaic cells utilizing this technology may have inefficiencies of 20% or more over current cells.

Patent Pending: PCT/US2010/026722; U.S. 13/255,487

### Technology features

#### Resources to be saved or improved

#### Benefits

Advantages and Applications:

- (1) Enhanced light absorption
- (2) Minimized light reflection
- (3) Greater ability for the recapture of wasted light energy
- (4) Technology can be easily incorporated into all of the current photovoltaic technologies
- (5) Production electricity with a cost of around \$0.80 or less per watt

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Collaboration

# Email Alerts

# www.wipo.int/green



About WIPO GREEN

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WIPO GREEN Database

## Email alerts

Create a customizable email alert to stay informed of new technologies or needs uploaded to the WIPO GREEN database.

You'll receive an email every time a relevant technology or need is uploaded.

Name \*

Type \*  Technology  Need

Technical field

Provider or seeker (Optional)

## My alerts

Technologies

Needs

# Get involved: Partners and Users

## PARTNERS

- Public and private institutions**
- Support WIPO GREEN and/or provide advice**  
(eg. facilitate transactions directly or indirectly; contribute expertise; integrate WIPO GREEN in specific activities; act as regional or national focal points, etc).

## USERS

- SEEKERS upload needs for products, processes, know-how transfer, collaborations and finance**
- PROVIDERS upload products, services and intellectual assets (incl. inventions, technologies, know-how, patents), for sale, collaboration and/or license**
- OTHER USERS access resources, services, the newsletter and interactive blog that will also be available to Partners and Users**

[www.wipo.int/green](http://www.wipo.int/green)

# Get Involved

❑ Become a User and register to:

- communicate your green innovation and technology needs
- advertise your inventions, technologies, products and services
- connect with the innovation and business communities globally

[www.wipo.int/green](http://www.wipo.int/green)

# The Growing List of Partners





# Technology/Products/Solutions Providers



QuantumDesignJapan  
日本カンタム・デザイン株式会社



And many more.



# Help Drive the Green Economy!

Email: [global.challenges@wipo.int](mailto:global.challenges@wipo.int)

Web: [www.wipo.int/green](http://www.wipo.int/green)

