

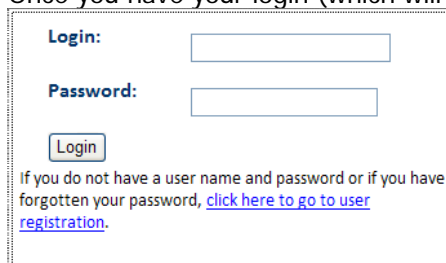
Users Help Page

Welcome to the Global Innovation Commons!

STEP 1. LOG-IN

You have found the first step into the future of economic engagement in an ethical global market. You are now beginning a process that will transform how you do research and development, how you create business, and how you make purchasing decisions if you're a company or country. If you have not done so, please place your mouse over the hyperlink for user registration. You will be asked to supply some information so that we can support your account and you will have a password e-mailed to your e-mail account.

Once you have your login (which will be your e-mail address) and password, please put them in the boxes below.



The screenshot shows a login form with the following elements:

- A label "Login:" followed by a text input field.
- A label "Password:" followed by a text input field.
- A "Login" button.
- A note: "If you do not have a user name and password or if you have forgotten your password, [click here to go to user registration.](#)"

STEP 2. SELECT THE TECHNOLOGY OF INTEREST

At the bottom of the front page, a series of technology groupings are listed. Select the topic of interest and place your mouse on the hyperlink to open that title.

STEP 3. COUNTRY OF INTEREST

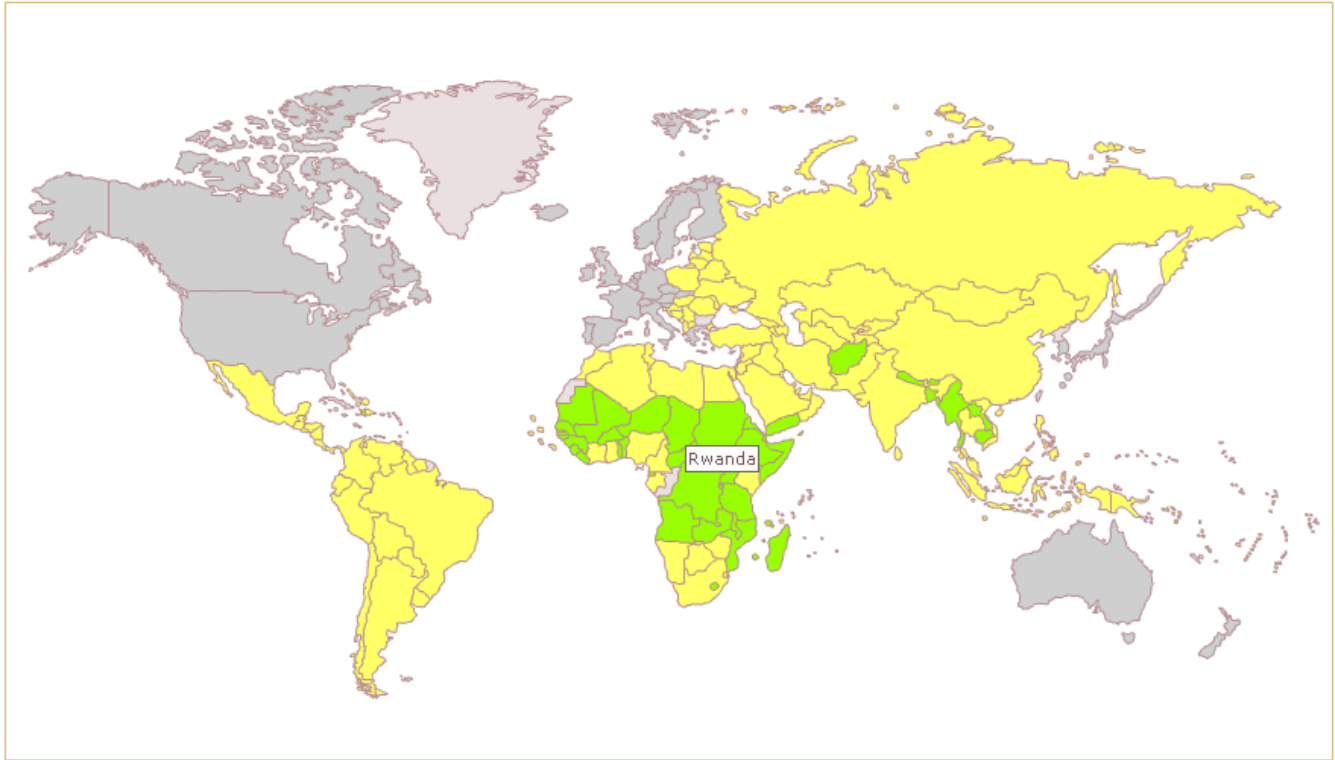
All countries are listed on the map. The color indicates the degree of global economic marginalization of each country. The countries in GREEN, while most economically marginalized, have the highest number of innovations which are available for immediate development so they represent the highest "opportunity" zones for open source innovation deployment. Countries in YELLOW have the next highest degree of open source opportunity. Countries in GREY have the most existing patented impediments for open source deployments and, as such are the most complicated for open source market options.

When you select the country of interest, place your mouse over the country and click on it. In the example image, you see that we have selected Rwanda in this example to explore open source innovations in the area of Renewable Power Desalination technologies. Each compilation will reflect the innovations available in that country. Make sure that you explore many countries to see what options are generally available and which ones are limited to specific markets.

Please note, M-CAM has organized this map based on our best understanding of national borders. We respect the fact that there are a number of territorial disputes and our map does not seek to reinforce any particular bias. As such, if you wish to assist us in more accurately representing borders of interest, we are delighted to work with you to make this map more reflective of the changing conditions in the global community.

Renewable Power Desalination

Choosing between clean water and a clean environment is irrational. The power consumption required for desalination in most installations is environmentally unsustainable. Therefore, we have profiled innovations which include water desalination in combination with carbon-alternative technologies. The carbon-alternative technologies include tidal power, biomass energy, solar and thermal power, wind turbine power.



STEP 4: BUSINESS MODEL

The next screen that opens is a listing, by innovation source or patent holder, of the leading innovation holders which have open source options in the country. In the image below, you see that the General Electric Corporation has 54 innovations which, in one form or another, could be used for open source initiatives in Rwanda. To see the data by company, simply place your mouse over the colored bar and click it.

Renewable Power Desalination (RW)

Business Model



STEP 5: PUBLIC DOMAIN

This is one of the most challenging areas of the Global Innovation Commons. And, before we proceed, make sure to know that you are always welcome to make inquiries to M-CAM at the e-mail address info@m-cam.com. To understand the color codes you need to have a basic understanding of patent law. The following is a summary and is not an exhaustive or complete explanation but it should help you make sense of this data.

When a company applies for a patent, they file the application with a patent office. Some of the most well-known offices are in the U.S., Europe, Japan, Korea, and China. Applications are considered by patent examiners and are typically allowed unless there is a compelling case to deny the patent request. **Most patent offices do a very inadequate job of reviewing precedent innovation and most patents are subject to challenge on some, or all of their claims, based on inventor and patent office inadequacies to review all relevant prior information. For any patent, certain mechanisms are in place to disallow, object to, or invalidate patents on reconsideration with new information. If you have any patent you'd like reviewed for invalidation, you can request such a review from M-CAM under a contracted engagement. For matters of humanitarian emergency or public health, we will often do such reviews at a discounted fee or for free.**

Issued patents and pending applications can be disallowed or revoked. These are highlighted in **BLUE**. In such instances, the subject matter in the patent is no longer protected and the information contained therein is publicly available for use.

Many companies and individuals file patents and then, for a variety of reasons, fail to pay maintenance fees to keep the patents active. In such instances, they are considered abandoned and, as such, do not have enforcement value. There are mechanisms, from time to time, for patents to be reinstated but new jurisdictions of enforcement are not available in such instances. Therefore, patents listed in **PURPLE** are no longer enforced as the holder has let them lapse.

Patents have a term – typically around 20 years. At the conclusion of their life, they have expired and everything in the patent belongs to the public – forever. Filing a new patent on subject matter which was previously patented is illegal. This does not stop people from filing such applications and, unfortunately, does not stop patent offices from granting such patents. However, the patents in **YELLOW** are free for all to use.

Patents are only enforceable in the jurisdictions selected by the applicant and allowed by the patent office. A patent in **GREEN** is still in force in the country or countries selected but can be used by anyone in any other country provided that they neither use, manufacture nor sell the resulting product or service in an area where the patent is enforced.

Public Domain Technology: Renewable Power Desalination in RW

Documents highlighted in **blue** have been disallowed.

Documents highlighted in **purple** have been abandoned.

Documents highlighted in **yellow** are expired.

Documents highlighted in **green** do not have family members in RW.

Modified bottoming cycle for cooling inlet air to a gas turbine combined cycle plant	1998-07-13
Turbine blade damper	1993-11-02
Over-cambered stage design for steam turbines	1993-08-27
Steam turbine split forward flow	1993-06-25
Fan blade platform seal	1984-11-26
Voltage comparator	1984-05-24

Place your mouse over the title of interest and the actual document opens.

STEP 6: INNOVATION DETAIL AND MARKET

The window that opens when you click on the title looks like the image on the right. A brief description of the innovation is listed under the title.

The Owners at Creation are the individuals or companies which actually were the owners of record when the patent was granted. This does not mean that this company or individual still owns the patent. In many cases, the patent will have been transferred to a third party so the owner can change. Many times, the patent may be pledged as collateral to a bank and so the bank holds the title to ownership.

The Innovators are the people who actually are stating that they created the innovation disclosed. By law, each of these individuals must have contributed to the innovation in question and must have been directly involved with the reduction to practice.

The status window shows the country or countries in which the patent is protected. In the case on the right, the only protection for this particular innovation disclosure is the United States. All countries in which an innovation is protected will be highlighted in light blue and all OPEN SOURCE market options for generic competition (production and sales) are in grey.

PLEASE NOTE: The information in this database is compiled from the world's largest collection of innovation data. The records of the legal status is derived directly from data provided by patent offices and other legal sources. **Before commencing any business or use of this data, a user should confirm the accuracy of this information. This can be done under contract with M-CAM or many other service providers or can be done for free, in some cases, at databases including the United States Patent & Trademark Office (www.uspto.gov) or the European Patent Office at (www.espacenet.com).** M-CAM explicitly recommends that any open source initiative make best efforts to include the innovators and originators of innovation to maximize knowledge sharing and cooperation.

STEP 7: PUBLIC DOMAIN TECHNOLOGY

At the bottom of the page in STEP 4, you can click on the hyperlink under Technology Space. It will look like this:

View public domain technologies for Renewable Power Desalination in RW

This screen will show ALL innovations – not sorted by company or individual – which represent open source options in the country selected.

STEP 8: REPORT YOUR PROGRESS

As a licensed user of the Global Innovation Commons, you have agreed to share your use with the World. Make sure you send use, comments, or suggestions, to info@m-cam.com. Also, as this is 100% public data, please report any errors to M-CAM at info@m-cam.com and we will work to correct any error in a timely manner.

Renewable Power Desalination: System and method for heat recovery from geothermal source of heat

A system is disclosed for generating energy from a geothermal heat source. The system includes a fluid injection system configured for injecting fluid into a subterranean formation and a fluid extraction system configured for extracting fluid from the subterranean formation after being heated by the formation. The system further includes a heat transformer configured to receive a first fluid heated by the geothermal heat source at a first temperature and adapted to heat a second fluid to a second temperature via a series of chemical reactions. Furthermore, the system includes an energy generation unit configured to receive heated the second fluid at the second temperature from the heat transformer to increase the temperature of a third fluid which is used to generate energy.

Owners at Creation

General Electric Company (US)

Innovators

Todd Garrett Wetzel (US)

Chellappa Balan (US)

Charles Max Byrd (US)

Veera Palanivelu Rajendran (US)

Status

live in:

