Renewable Energy

A Reader’s Guide to Library Materials

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1 Alternative Energy Sources V, http://alternativeenergysourcesv.com/
Renewable Energy, also called alternative energy, denotes usable energy derived from replenishable sources such as the Sun (solar energy), wind (wind power), rivers (hydroelectric power), hot springs (geothermal energy), tides (tidal power), and biomass (biofuels).

At the beginning of the 21st century, about 80 percent of the world’s energy supply was derived from fossil fuels such as coal, petroleum, and natural gas. Fossil fuels are finite resources; most estimates suggest that the proven reserves of oil are large enough to meet global demand at least until the middle of the 21st century. Fossil fuel combustion has a number of negative environmental consequences. Fossil-fueled power plants emit air pollutants such as sulfur dioxide, particulate matter, nitrogen oxides, and toxic chemicals (heavy metals: mercury, chromium, and arsenic), and mobile sources, such as fossil-fueled vehicles, emit nitrogen oxides, carbon monoxide, and particulate matter. Exposure to these pollutants can cause heart disease, asthma, and other human health problems. In addition, emissions from fossil fuel combustion are responsible for acid rain, which has led to the acidification of many lakes and consequent damage to aquatic life, leaf damage in many forests, and the production of smog in or near many urban areas. Furthermore, the burning of fossil fuels releases carbon dioxide (CO₂), one of the main greenhouse gases that cause global warming.

In contrast, renewable energy sources accounted for nearly 20 percent of global energy consumption at the beginning of the 21st century, largely from traditional uses of biomass such as wood for heating and cooking. About 15 percent of the world’s total electricity comes from large hydroelectric power plants, whereas other types of renewable energy (such as solar, wind, and geothermal) account for 3.4 percent of total electricity generation.²

How to Find Books on the Shelf

To locate books on Renewable Energy Sources, you may use the following call numbers:

- 333.794 (B2) Renewable Energy Resources
- 333.88 Geothermal Energy
- 621.042 (B1) Renewable Energy Engineering
- 621.44 Geothermal Engineering
- 621.45 Wind Engines
- 621.47 Solar Energy Engineering
- 662.88 Biomass as Fuel
- 665.81 Hydrogen as Fuel

Dictionaries

BA Call Number: 621.04203 U (B4 -- References)
Also available as e-book:

BA Call Number: 621.470321 E (B4 -- References)

Atlases

BA Call Number: 551.52710962022 S5281 1991 (B4 -- References)
Also available as e-book:

For further assistance, you may ask a reference librarian in the Main Library or email us at: infobib@bibalex.org
**Electronic Resources**

The Bibliotheca Alexandrina offers a variety of subscribed electronic databases to meet your research needs. Subscribed databases are only available within the library where you can freely access them and email results.

*Researchers* who own a library membership card may also contact the nearest reference desk to fill in a *Search Request Form* which will be processed by specialized librarians. The results will be emailed directly to the researcher. In addition, researchers can ask for specific electronic articles and/or book chapters to be sent to them, via the following e-mail: e-article@bibalex.org.

**Subscribed Databases**

**Full-Text Academic Articles:**

The following database may include bibliographical references of articles on *Renewable Energy* and related disciplines:

- **Academic Search Complete.** EBSCO.
- **General OneFile.** GALE.
- **JSTOR.** ITHACA.
- **ScienceDirect.** Elsevier.
- **SpringerLink.** Springer.

**Citations of Academic Articles:**

The following database may include bibliographical references of articles on *Renewable Energy* and related disciplines:

- **Scopus.** Elsevier

**Electronic Encyclopedias:**

- **Encyclopedia Britannica Online.**
Theses & Dissertations:

- ProQuest Dissertations & Theses (PQDT). Proquest

e-Books:

- ebrary. ProQuest.
- ScienceDirect. Elsevier.
- SpringerLink. Springer.
Subscribed Journals

IEEE Transactions on Sustainable Energy. Institute of Electrical and Electronics Engineers (IEEE). e-periodical. IEEE Xplore (database). IEEE.
IET Renewable Power Generation. Institution of Engineering and Technology. e-periodical. IEEE Xplore (database). Institute of Electrical and Electronics Engineers.

Open Access Journals


www.isrn.com/journals/re/ [accessed 7 Feb. 2013]


Web Resources


International Organizations


Organizations in Egypt

**Egypt Green Energy Association (EGE).**
59 East Autostrad Buildings, apt. 28, Al-Maadi Cairo, Egypt
Tel: (+2) 0101 336 9079
E-mail: info@egyptgreenenergy.org
Website: [www.egyptgreenenergy.org](http://www.egyptgreenenergy.org) [accessed 30 Jan 2013]

**Egyptian Association for Energy & Environment (EAEE).**
Engineering Tower 3B, Corniche El Maadi, 28th floor, apt. 3, Al-Maadi Cairo, Egypt
Tel: (+202) 25266038
E-mail: mahmoudshaban@eaee-eg.com
Website: [www.eaee-eg.com](http://www.eaee-eg.com) [accessed 30 Jan 2013]

**Egyptian Wind Energy Association (EGWEA).**
2 Ahmed Ragheb St., Garden City Cairo, Egypt
[www.ewindea.org](http://www.ewindea.org) [accessed 30 Jan 2013]

**New & Renewable Energy Authority (NREA).**
Abbas Al Akkad Street, Nasr City 4544 Cairo, Egypt
Tel: (+202) 22725891
E-mail: reic@nreaeg.com
Website: [www.nrea.gov.eg](http://www.nrea.gov.eg) [accessed 30 Jan 2013]
**Research Centers in Egypt**

**Egyptian Solar Research Center (SOLAREC Egypt).**
Main office: 7 Nozha St., apt. 2, Nasr City
Cairo, Egypt
E-mail: info@solarec-egypt.com
www.solarec-egypt.com  [accessed 30 Jan 2013]

**German University in Cairo (GUC). Renewable Energy Research Centre.**
New Cairo City
Main Entrance Eltagamoa El Khames

**National Research Center. Engineering Research Division. Biodiesel Expert Group in Egypt.**
El Buhouth St., Dokki
12311 Cairo, Egypt
www.nrc.sci.eg/nrc/Biodiesel/BiodieselHome.html  [accessed 30 Jan 2013]

**Renewable Energy Industry in Egypt**

**Egyptian Solar Energy Company.**
Main Office: 11 El-Gamaa Street, Giza Square
Giza, Egypt
Tel: (+202) 35737813 / (+202) 35714538 / (+202) 34043306
E-mail: info@egyptsolar.net  [accessed 30 Jan 2013]
Website: http://egyptsolar.net

**Solar Egypt.**
Head Office: 19 (A) Salah Salem St., Obour Buildings
Cairo, Egypt
Tel: (+202) 2260 85 29 / (+202) 2260 85 34
E-mail: solarenergy@link.net
Website: www.solaregypt.com  [accessed 30 Jan 2013]