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by Jeff Gibbs Wmkw

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Geothermal Energy: Delivering on the
Global Potential Paul L. Younger School
of Engineering, University of Glasgow,
Glasgow G23 5EB, Scotland, UK; E-Mail:
paul.younger@glasgow.ac.uk; Tel.:

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recreational uses for millennia, but only for electricity generation for a little over a century. Although geothermal is unique amongst renewables for its...

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Geothermal energy has been harnessed for

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recreational uses for millennia, but only for electricity generation for a little over a century. Although geothermal is unique amongst renewables for its baseload and renewable heat provision capabilities, uptake continues to lag far behind that of solar and wind.

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Geothermal Energy: Delivering on the Global Potential

Geothermal Energy: Delivering on the
Global Potential-Paul L. Younger 2015

After decades of being largely the preserve
of countries in volcanic regions, the use of
geothermal energy-for both heat and
power applications-is now expanding

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worldwide. This reflects its excellent low-carbon credentials and its ability to offer baseload and dispatchable output - rare amongst the mainstream renewables. Yet uptake of geothermal still lags

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(PDF) Geothermal Energy: Delivering on the Global Potential Geothermal energy is thermal energy produced naturally in the planetary interior [1,2], principally by the decay of radioisotopes of potassium, uranium and thorium . As such, it is the only renewable energy source independent of solar radiation and/or the gravitational

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attraction of the sun and moon [4].

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From a few practical considerations, a
procedure has been developed for

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assessing the geothermal energy potential of abandoned underground coal mines, as well as for quantifying the reduction in CO₂ emissions associated with using the mines instead of conventional heating/cooling technologies. On this basis the authors have been able to estimate that the geothermal energy available from

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underground coal mines in Europe is on the order of several thousand megawatts thermal.

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capacity. With unit 1 now online, Kenya's total installed capacity is 726.6 MW and the global geothermal power generation capacity is 14,900 MW. The second unit with the same capacity is expected to be

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countries in volcanic regions, the use of geothermal energy--for both heat and power applications--is now expanding worldwide.

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The study evaluates the scale of the potential for geothermal energy around the world and provides insight into the role this alternative energy source can play in electrical power generation and...

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CGG delivers global geothermal resource study to support ...

Geothermal energy is one of the cleanest forms of energy now available in commercial quantities. Use of geothermal energy avoids the problems of acid rain and greatly reduces greenhouse gas

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emissions and other forms of air pollution. Potentially hazardous elements produced in geothermal brines are usually injected back into the producing reservoir.

This book is a printed edition of the

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Special Issue "Geothermal Energy:
Delivering on the Global Potential" that
was published in Energies

Rising pollution, climate change and the
depletion of fossil fuels are leading many
countries to focus on renewable-based
energy conversion systems. In particular,

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recently introduced energy policies are giving high priority to increasing the use of renewable energy sources, the improvement of energy systems' security, the minimization of greenhouse gas effect, and social and economic cohesion.

Renewable energies' availability varies during the day and the seasons and so their

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Use must be accurately predicted in conjunction with the management strategies based on load shifting and energy storage. Thus, in order to reduce the criticalities of this uncertainty, the exploitation of more flexible and stable renewable energies, such as the geothermal one, is necessary. Geothermal

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energy is an abundant renewable source with significant potential in direct use applications, such as in district heating systems, in indirect use ones to produce electricity, and in cogeneration and polygeneration systems for the combined production of power, heating, and cooling energy. This Special Issue includes

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geothermal energy utilization and the technologies used for its exploitation considering both the direct and indirect use applications.

Development Research in Practice leads

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the reader through a complete empirical research project, providing links to continuously updated resources on the DIME Wiki as well as illustrative examples from the Demand for Safe Spaces study. The handbook is intended to train users of development data how to handle data effectively, efficiently, and

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ethically. “In the DIME Analytics Data Handbook, the DIME team has produced an extraordinary public good: a detailed, comprehensive, yet easy-to-read manual for how to manage a data-oriented research project from beginning to end. It offers everything from big-picture guidance on the determinants of high-

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quality empirical research, to specific practical guidance on how to implement specific workflows—and includes computer code! I think it will prove durably useful to a broad range of researchers in international development and beyond, and I learned new practices that I plan on adopting in my own research group.†?

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—Marshall Burke, Associate Professor,
Department of Earth System Science, and
Deputy Director, Center on Food Security
and the Environment, Stanford University
“Data are the essential ingredient in any
research or evaluation project, yet there
has been too little attention to standardized
practices to ensure high-quality data

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collection, handling, documentation, and exchange. Development Research in Practice: The DIME Analytics Data Handbook seeks to fill that gap with practical guidance and tools, grounded in ethics and efficiency, for data management at every stage in a research project. This excellent resource sets a new standard for

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the field and is an essential reference for all empirical researchers.†? —Ruth E.

Levine, PhD, CEO, IDinsight

“Development Research in Practice: The DIME Analytics Data Handbook is an important resource and a must-read for all development economists, empirical social scientists, and public policy analysts.

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Based on decades of pioneering work at the World Bank on data collection, measurement, and analysis, the handbook provides valuable tools to allow research teams to more efficiently and transparently manage their work flows—yielding more credible analytical conclusions as a result. †? —Edward Miguel, Oxfam

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Professor in Environmental and Resource
Economics and Faculty Director of the
Center for Effective Global Action,
University of California, Berkeley “The
DIME Analytics Data Handbook is a must-
read for any data-driven researcher
looking to create credible research
outcomes and policy advice. By

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Potential Writing meticulously describing detailed steps, from project planning via ethical and responsible code and data practices to the publication of research papers and associated replication packages, the DIME handbook makes the complexities of transparent and credible research easier.†?

—Lars Vilhuber, Data Editor, American

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Potential Workshop, and Executive
Director, Labor Dynamics Institute,
Cornell University

Modular Systems for Energy and Fuel
Recovery and Conversion surveys the
benefits of the modular approach in the
front end of the energy industry. The book

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also outlines strategies for managing modular approaches for fossil, renewable, and nuclear energy resource recovery and conversion with the help of successful industrial examples. The book points out that while the modular approach is most applicable for distributed and small-scale energy systems, it is also often used for

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parts of large-scale centralized systems. With the help of successful industrial examples of modular approaches for energy and fuel recovery and conversion, the book points out the need for more balance between large-scale centralized systems and small-scale distributed systems to serve the energy needs of rural

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and isolated communities. Coal, oil, natural gas, hydrogen, biomass, waste, nuclear, geothermal solar, wind, and hydro energy are examined, showing that modular operations are very successfully used in all these components of the energy industry. Aimed at academic researchers and industry professionals, this book

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provides successful examples and analysis of the modular operation for energy and fuel recovery and conversion. It is also a reference for those who are engaged in the development of modular systems for energy and fuel recovery and conversion.

Geothermal Energy Systems provides

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design and analysis methodologies by using exergy and enhanced exergy tools (covering exergoenvironmental, exergoeconomic, exergetic life cycle assessment, etc.), environmental impact assessment models, and sustainability models and approaches. In addition to presenting newly developed advanced and

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integrated systems for multigenerational purposes, the book discusses newly developed environmental impact assessment and sustainability evaluation methods and methodologies. With case studies for integrated geothermal energy sources for multigenerational aims, engineers can design and develop new

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geothermal integrated systems for various applications and discover the main advantages of design choices, system analysis, assessment and development of advanced geothermal power systems.

Explains the ability of geothermal energy power systems to decrease global warming

Discusses sustainable development

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strategies for using geothermal energy
sources Provides new design conditions
for geothermal energy sources-based
district energy systems

Ron DiPippo, Professor Emeritus at the
University of Massachusetts Dartmouth, is
a world-regarded geothermal expert. This

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single resource covers all aspects of the utilization of geothermal energy for power generation from fundamental scientific and engineering principles. The thermodynamic basis for the design of geothermal power plants is at the heart of the book and readers are clearly guided on the process of designing and analysing the

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key types of geothermal energy conversion systems. Its practical emphasis is enhanced by the use of case studies from real plants that increase the reader's understanding of geothermal energy conversion and provide a unique compilation of hard-to-obtain data and experience. An important new chapter

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covers Environmental Impact and Abatement Technologies, including gaseous and solid emissions; water, noise and thermal pollutions; land usage; disturbance of natural hydrothermal manifestations, habitats and vegetation; minimisation of CO₂ emissions and environmental impact assessment. The

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Book is illustrated with over 240 photographs and drawings. Nine chapters include practice problems, with solutions, which enable the book to be used as a course text. Also includes a definitive worldwide compilation of every geothermal power plant that has operated, unit by unit, plus a concise primer on the

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Applicable thermodynamics. * Engineering principles are at the heart of the book, with complete coverage of the thermodynamic basis for the design of geothermal power systems * Practical applications are backed up by an extensive selection of case studies that show how geothermal energy conversion systems have been

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designed, applied and exploited in practice

* World renowned geothermal expert

DiPippo has including a new chapter on
Environmental Impact and Abatement
Technology in this new edition

Renewable Heating and Cooling:
Technologies and Applications presents

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the latest information on the generation of heat for industry and domestic purposes, an area where a significant proportion of total energy is consumed. In Europe, this figure is estimated to be almost 50%, with the majority of heat generated by the consumption of fossil fuels. As there is a pressing need to increase the uptake of

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renewable heating and cooling (RHC) to reduce greenhouse gas emissions, this book provides a comprehensive and authoritative overview on the topic. Part One introduces key RHC technologies and discusses RHC in the context of global heating and cooling demand, featuring chapters on solar thermal process heat

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generation, deep geothermal energy, and solar cooling technologies. Part Two explores enabling technologies, special applications, and case studies with detailed coverage of thermal energy storage, hybrid systems, and renewable heating for RHC, along with case studies in China and Sweden. Users will find this book to be an

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Essential resource for lead engineers and engineering consultants working on renewable heating and cooling in engineering companies, as well as academics and R&D professionals in private research institutes who have a particular interest in the subject matter. Includes coverage on biomass, solar

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thermal, and geothermal renewable heating and cooling technologies Features chapters on solar thermal process heat generation, deep geothermal energy, solar cooling technologies, and special applications Presents case studies with detailed coverage of thermal energy storage, hybrid systems, and renewable

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heating for RHC Explores enabling
technologies and special applications

This 4-hour free course investigated the potential of the Earth's geothermal energy to replace, or reduce, the global dominance of fossil fuels.

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Geothermal energy refers to the heat contained within the Earth that generates geological phenomena on a planetary scale. Today, this term is often associated with man's efforts to tap into this vast energy source. Geothermal Energy: utilization and technology is a detailed reference text, describing the various

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Methods and technologies used to exploit the earth's heat. Beginning with an overview of geothermal energy and the state of the art, leading international experts in the field cover the main applications of geothermal energy, including: electricity generation space and district heating space cooling greenhouse

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heating aquaculture industrial applications

The final third of the book focuses upon environmental impact and economic, financial and legal considerations, providing a comprehensive review of these topics. Each chapter is written by a different author, but to a set style, beginning with aims and objectives and

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ending with references, self-assessment questions and answers. Case studies are included throughout. Whilst written primarily for professionals and students interested in learning more about geothermal energy, the book also offers those new to the field and the general geothermal community an opportunity to

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understand and review the potential of this
exciting alternative energy source.

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