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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.: +44-141-330-5042 Academic Editor: Enrico Sciubba Received: 8 October 2015 / Accepted: 9 October 2015 / Published: 19 October 2015

Geothermal Energy: Delivering on the Global Potential

Geothermal energy has been harnessed for 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: Delivering on the Global Potential ...

Geothermal energy has been harnessed for 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.

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 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 attraction of the sun and moon [4]. Geothermal Energy: Delivering on the Global Potential

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From a few practical considerations, a procedure has been developed for assessing the geothermal energy potential of abandoned underground coal mines, as well as for quantifying the reduction in CO 2 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 underground coal mines in Europe is on the order of several thousand megawatts thermal.

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Geothermal Energy: Delivering on the Global Potential - CORE

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...

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

This book addresses the societal aspects of harnessing geothermal resources for different uses, such as power production, heating and cooling. It introduces a theoretical framework for a social scientific approach to the field, and presents a preliminary collection of empirical case studies on geothermal energy and society from across the world. By providing a conceptual and methodological framework to the study of geothermal energy and societies, it brings together information and analyses in the field that to date have been sparse and fragmented. The contributors explore the diverse aspects of the relationship between the harnessing of geothermal resources and the societies and local communities in which these developments take place. After introducing geothermal technologies, renewable energy concepts as well as their social and policy context and the regulative and environmental aspects of geothermal energy, the book analyzes and discusses twelve global case studies, and compares the social engagement tools applied with those used in other sectors. Of interest to researchers from a range of disciplines who wish to explore the issues surrounding energy and society, it is also a valuable resource for geothermal experts and postgraduate students wish to study the field in greater detail.

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

This Intergovernmental Panel on Climate Change Special Report (IPCC-SRREN) assesses the potential role of renewable energy in the mitigation of climate change. It covers the six most important renewable energy sources – bioenergy, solar, geothermal, hydropower, ocean and wind energy – as well as their integration into present and future energy systems. It considers the environmental and social consequences associated with the deployment of these technologies and presents strategies to overcome technical as well as non-technical obstacles to their application and diffusion. SRREN brings a broad spectrum of technology-specific experts together with scientists studying energy systems as a whole. Prepared following strict IPCC procedures, it presents an impartial assessment of the current state of knowledge: it is policy relevant but not policy prescriptive. SRREN is an invaluable assessment of the potential role of renewable energy for the mitigation of climate change for policymakers, the private sector and academic researchers.

Ireland's Green Opportunity: Driving Investment in a Low-Carbon Economy provides the first-ever overview of the green economy from an Irish perspective. Identifies business opportunities in all the main sub-sectors that comprise the green economy. Looks at export opportunities and trends in the UK, US and other major markets. Is an information source for project promoters, investors and employees. Covers the key policies that are driving the low-carbon agenda. For example, the science, economics and politics of climate change are covered by way of background, as are issues such as sustainability and the EU's low-carbon strategy. Ireland will be responding to these 'game changing' issues over the coming period. Ireland's Green Opportunity is therefore designed to help stimulate debate about our low-carbon strategy, while raising awareness about the business opportunities that will arise domestically and in export markets. Peer reviewed by eight of Ireland's leading experts in climate change and the green economy, this groundbreaking book will be of interest to students, businesspeople and policymakers.

The geothermal resources of the Earth are enormous. The resource is considered to be an environmentally friendly clean energy source that could significantly contribute to the reduction of GHG emissions when utilized for electrical power generation or direct heating applications. The source of geothermal energy is the continuous heat energy flux flowing from the interior of the Earth toward its surface. Geothermal energy resources vary geographically, depending on the depth and temperature of the resource, the rock chemical composition, and the abundance of ground water. This book is the result of contributions from several experts and researchers worldwide. The introductory chapter highlights the principles of geothermal power generation using LEGE-ORC technology and presents a summary of the following book chapters. Due to its important utilization and future prospects, various interesting topics of research related to geothermal energy explorations are covered in this book. It is hoped that the book will become a useful source of information and basis for extended research for researchers, academics, policy makers, and practitioners in the area of renewable geothermal energy explorations.

A solution to the climate and energy crisis The reversible fuel cell (RFC) described in this volume stores solar energy and thereby makes it continuously available. This can make the building of energy-free homes and all electric transportation a reality. The foldout drawing at the back of this book also describes the detailed design of the world's first 1,000 megawatt solar-hydrogen power plant. How is this possible? Our planet receives more solar energy in an hour than humans use in a year. In fact, 5% of the Sahara could meet the total energy requirement of mankind. This energy can then be stored and transported in the form of hydrogen. Converting from an exhaustible energy economy to a clean, free, and inexhaustible one In this timely book, author Béla Lipták explains why a solar-hydrogen economy is technically feasible and cost-effective. He first outlines existing conservation technologies and renewable energy processes as well as evolving technologies, such as energy-free homes, roof shingle solar collectors, and RFCs. He goes on to discuss energy optimization techniques that could reduce the global energy consumption by one third and finally presents the detailed design of a full size solar-hydrogen power plant. It is time to harness the power of solar energy With global energy consumption quadrupling in the last fifty years and atmospheric carbon dioxide reaching the highest level ever recorded, now is the time to prevent further damage to the planet and ensure the survival of human civilization. It is debatable how much time we have before our fossil and uranium deposits are exhausted. It is also debatable how much climate change we can live with or how much of our economic resources should be devoted to stabilizing and reversing mankind's growing carbon footprint. What is not debatable is that our resources are exhaustible and that we must not give reason for our grandchildren to ask, "Why did you not act in time?".

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

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