

# Algerian renewable energy assessment the challenge of sustainability

Review and research papers addressing the renewable energy axis in Algeria have been published as in (Abada and Bouharkat, 2018) (Boudghene Stambouli, 2011, Stambouli et al., 2012) but are outdated and lacks complete coverage of the RE field this paper, the updated status of renewable energy potential and utilization in Algeria is provided associated ...

This chapter explores how renewable energy can support sustainable development in South Africa. It reviews the literature on four topics: the current and future trends of renewable energy use and production; the factors that influence renewable energy adoption and diffusion; the effects of renewable energy on different aspects of sustainability; and the ...

(DOI: 10.1016/J.RSER.2012.04.031) The quality of life and safeness of the present and future generations are strongly intertwined with the availability of energy sources and the sustainability of the energy infrastructure. Energy consumption in developed countries grows at a rate of approximately 1% per year, and that of developing countries, 5% per year (Muneer et al., 2005 ...

We discuss Algeria's energy challenges, strategic targets for the diversification of its energy sector, and the potential contribution of bottom-up prospective modeling to evaluate energy ...

In the policy framework, the share of renewable energy (including wind, solar, small hydro, and biomass) was set to rise to about 10% by 2020 and to 19% by 2030 to increase the use of renewable energy sources and access to energy services [2].Especially, with more than 5 GW of installed capacity of medium and large hydropower contributing approximately 27.6% of ...

In terms of future renewable energy development, the country's most abundant renewable resources are solar, wind, hydro, and biomass. Regarding solar power potential, Algeria is home to some of the world's highest solar irradiance levels, with the capacity to generate 1,850 to 2,100 kilowatts per hour and up to 3,500 hours per year in its ...

The remainder of the paper is sectioned into five: Section 2 discusses renewable energy sources and sustainability and climate change, Section 3 elaborates on the various renewable energy sources and technologies, Section 4 elaborates on the renewable energy sources and sustainable development, Section 5 elaborates on challenges affecting ...

A collective, well-coordinated effort can help us achieve our renewable energy and climate goals, creating a more sustainable and equitable energy landscape for future generations. Nutifafa Yao Doumon is an assistant ...

Algeria is putting into place plans to increase renewable energy capacity over the next 20 years and set

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renewable energy targets to be met by 2030 that range up to 40% of the ...

This report is based on the premise that energy is an essential component of sustainable development of social and economic progress that meets the needs of both present and future generations. The report discusses the linkage between energy and economic, social, environmental, and security issues, and analyzes the contradictions between current patterns ...

A case study reporting the sustainable energy challenges in MENA region. Article Google ... A review and assessment of energy policy in the Middle East and North Africa region. Energy Policy. 2017;102:249-69. ... Kitamura Y. A review on the renewable energy development in Algeria: current perspective, energy scenario and sustainability issues ...

The global emphasis on achieving sustainable development goals necessitates the involvement of researchers and regulators worldwide. In light of this, recent research has examined the effect of human capital, renewable energy, population growth, economic growth, and environmental protection on the sustainable development goals (SDGs) in a developed ...

The development of energy sources that are renewable and sustainable is a critical component in achieving the United Nations' sustainable development goals [[1], [2], [3]]. Although the development of energy systems with renewable and sustainable sources in many industrialized economies is the first step towards attaining global environmental sustainability, ...

Indeed, the integration of renewable energies into the national energy mix is a major challenge for the preservation of fossil fuels, the diversification of electricity production chains, and the contribution to sustainable development. Algeria is also committed to reduce its greenhouse gas (GHG) emissions by 2020-2030.

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The global proliferation of renewable energy has been fueled by a combination of factors, spearheaded by proactive government policies. These include the implementation of renewable portfolio standards, the provision of feed-in tariffs, auction mechanisms, and the availability of tax credits [6] ch policies, along with dedicated initiatives to foster research ...

In order to show the attention to the clean and renewable energy axis in Algeria, a short highlight of several research works have been reported in different fields like photovoltaic (Kaid et al., 2018), Wind (Nacer et al., 2016, Roummani et al., 2019), Bioenergy (Akbi et al., 2017), Waste treatment (Igoud et al., 2017), Sustainability ...

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Algeria is at a critical stage in its energy sector development. The nation has both the potential and the incentive to maximize its natural resources and become a renewable energy leader. In addition to its status as the second-most-populous country in North Africa, Algeria is noteworthy for its relative size, wealth, location, gas reserves, renewable energy potential, and ...

This paper is the editorial for the virtual special issue (VSI) of Renewable and Sustainable Energy Reviews (RSER) dedicated to 4 SDEWES Conferences held in 2020, namely: (i) the 2nd Latin American Conference on Sustainable Development of Energy, Water and Environment Systems (LASDEWES 2020) held from February 9 to 12, 2020 in Buenos Aires, ...

However, Algeria has an important renewable energy potential and the continent's largest land area, which makes it a location to explore renewable energy sources [7]. Currently, the country is not fully taking advantage of this potential and is at a crossroads when it comes to developing a new energy system since there are a lot of competing ...

A.B. Stambouli, Algerian renewable energy assessment: the challenge of sustainability. Energy Policy 39(8), 4507-4519 (2011) Google Scholar N. Sulmont, F. Meley, Les énergies renouvelables en Algérie "chiffres Clefs, service économique régional, Ambassade De France, Alger, Algérie" (2013) Google Scholar

The achievement of sustainable development goals (SDGs) depends on the access of modern, sufficient, and efficient energy to all people. Currently, developing countries including sub-Saharan Africa (SSA) are the most vulnerable to the environmental problems associated with the use of non-renewable energy.

@misc{etde\_20228512, title = {World energy assessment. Energy and the challenge of sustainability} author = {Goldemberg, J} abstractNote = {The report, prepared by a team with Professor Goldemberg as chair, is a comprehensive volume on energy policy. It begins with a concise overview which has also been published as a 40-page pamphlet.

Sustainability development aims to promote cities that can respond to different climatic, social and economic challenges. In the discipline of architecture and urban design, green architecture is one of the key aims that sustainability development aspires to achieve by bringing frameworks that support the architecture profession and architects in developing ...

Algerian renewable energy assessment: the challenge of sustainability. Energy Policy (2011) ... and performance are reviewed. Moreover, the challenges and outlook for HRE utilization are discussed, including the following points: proper use of the local sources in view of disperse and regional distribution of renewable energy; development of ...

Given the key role renewable energy plays in averting the impending climate crisis, assessments of the

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sustainability of renewable energy systems (RESs) are often heavily skewed towards their ...

Due to its geographical location, Algeria holds one of the highest solar potentials in the world. This paper presents a review of the present renewable energy situation and assesses present and ...

Mission Innovation has defined eight challenges to date. Smart grids, sustainable biofuels, offgrid, heating and cooling and renewable and clean hydrogen are all directly relevant to the main technology deployment needs that have been identified in REmap. ... RE-mapping the UAE's energy transition: an economy-wide assessment of renewable energy ...

Algerian renewable energy assessment: The challenge of sustainability. Abstract: Algeria plays a very important role in world energy markets, both as a significant hydrocarbon producer and ...

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