Short Communication

Perspectives on green hydrogen in Europe—during an energy crisis and towards future climate neutrality

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Abstract

Hydrogen and regional energy infrastructure are significant for the European Green Deal and was the focus of the SuperP2G research Project (Symergies Utilising renewable Power Regionally by means of Power to Gas). Five national projects (Denmark, Netherlands, Germany, Austria, and Italy) cooperated to investigate power to gas feasibility. The energy crisis due to the war in Ukraine peaked during the project. The demand for green hydrogen increased as natural gas was reduced. In 2022, the cost of blue hydrogen was 9.5–12.6 €/kg. Higher electricity prices impacted the cost of green hydrogen less. Considering the 2021-22 level of electricity and gas prices, and the potential flexibility of electrolysers, electrolytic hydrogen was on a par with blue hydrogen. On the long term, green hydrogen is assumed to be competitive around 2030. A fast ramping up and favourable electricity cost development could halve the hydrogen production cost until 2060 with investment being the major contributor to a cost reduction. Meanwhile, the smart operation of a wind/electrolyser system might achieve 24% reduction of its operation cost. The following measures are recommended to introduce green hydrogen on a large scale: 1) certification of green and low carbon hydrogen and a uniform CO; price; 2) ensuring a level playing field across markets; 3) enabling policies to enhance European security of supply by increasing domestic production and diversifying imports; 4) fast ramping of renewable electricity generation; and 5) coordinated planning of hydrogen, methane, and electricity infrastructures.

Graphical Abstract



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Technical Information Center, 1976 Perspectives on the Energy Crisis Howard Gordon, Roy Meador, 1977 Energy: a Continuing Bibliography with Indexes, 1974 Nuclear News ,1977 Heat transfer in data centers, volume II Chengbin Zhang, Matteo Fasano, Xiangdong Liu, Fang-Bao Tian, 2023-03-24 Networks, Markets & People Francesco Calabrò, Livia Madureira, Francesco Carlo Morabito, María José Piñeira Mantiñán, 2024-12-13 This book aims to address the issue of the effects that the contemporary environmental technological social and economic global challenges produce on settlement systems communities institutions and enterprises It presents a multi disciplinary scientific debate on the new frontiers of strategic and spatial planning decision support tools and ecological design within the urban rural areas networks and the metropolitan cities of the Mediterranean basin The book focuses on five topics Cultural Heritage as driver of development for territories and tourism destinations Ecosystems people nature cohesion and urban rural relationships Decision Support Systems for urban regeneration Policies and practices of cohesion and social innovation for inclusive cities Green buildings and sustainable solutions for ecological transition In addition the book hosts the papers of a special session intercluster promoted by Italian Society of Architectural Technology SITdA The book benefits all researchers practitioners and policymakers interested in the issue applied to metropolitan cities and marginal areas Marketing Horizons: A 1980's Perspective Venkatakrishna V. Bellur, James W. Camerius, Brian G. Gnauck, 2014-10-28 Founded in 1971 the Academy of Marketing Science is an international organization dedicated to promoting timely explorations of phenomena related to the science of marketing in theory research and practice Among its services to members and the community at large the Academy offers conferences congresses and symposia that attract delegates from around the world Presentations from these events are published in this Proceedings series which offers a comprehensive archive of volumes reflecting the evolution of the field Volumes deliver cutting edge research and insights complimenting the Academy's flagship journals the Journal of the Academy of Marketing Science JAMS and AMS Review Volumes are edited by leading scholars and practitioners across a wide range of subject areas in marketing science This volume includes the full proceedings from the 1980 Academy of Marketing Science AMS Annual Conference held in Dallas Texas entitled Marketing Horizons A 1980 s Perspective Urban Journal of the Institution of Nuclear Engineers Institution of Nuclear Engineers Transportation Abstracts ,1985 (Great Britain), 1977 United States Political Science Documents, 1981 Books in Print ,1982 **ERDA Research** Abstracts United States. Energy Research and Development Administration, 1976

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