

Furthermore, as our research suggest, local narratives could be reinforced by the tendency to focus on specific technologies and projects in the media, and not the overall benefits of storage. Incorporating regional public framing of storage into energy communication and policy design will help mitigate these challenges and smooth project ...

The research on public sentiments on energy storage policy is of great importance for ensuring the effectiveness of the policy and improving the satisfaction of the ...

Humanities and Social Sciences Communications - The evolving landscape of environmental, climate, and energy policy is marked by both pressing global challenges as well as opportunities for ...

key state energy storage policy priorities and the challenges being encountered by some of the leading decarbonization states, with several case studies. ... Available to the public from U.S. Department of Commerce National Technical Information Service 5301 Shawnee Rd Alexandria, VA 22312 Telephone: (800) 553-6847

This chapter provides an overview of the research on social acceptance of pumped hydroelectric energy storage and introduces three case studies, the Storm King Mountain pumped hydro plant (United ...

Energy Storage for Social Equity Roundtable Report September 2021 Savanna Michener¹ Rebecca O'Neil ... Senior Energy Policy Specialist at the Washington State Energy Office; Dr. Joy Wang, Public Utilities Engineer at Michigan Public Service Commission; Crystal Pruitt, Deputy Director for Clean Energy Equity at ...

Social sciences have been very prolific in the last decades in publishing research that attempts to better understand the social acceptance of renewable energy technologies and associated ...

DOI: 10.1016/J.ERSS.2021.102072 Corpus ID: 235544564; The social dimension of renewable energy storage in electricity markets: The role of partnerships @article{Eitan2021TheSD, title={The social dimension of renewable energy storage in electricity markets: The role of partnerships}, author={Avri Eitan and Itay Fischhendler}, journal={Energy research and social ...

Energy storage systems play an important role in achieving the goal of 100% electricity generation from renewable energy sources by improving their efficiency and flexibility.

However, despite the growing realization of the need for long-duration energy storage (LDES) technologies, a persistent gap of policy levers at the federal and state level creates a vacuum in ...

This paper employs a multi-level perspective approach to examine the development of policy frameworks around energy storage technologies. The paper focuses on the emerging encounter between existing social, technological, regulatory, and institutional regimes in electricity systems in Canada, the United States, and the European Union, and the niche level ...

By supporting renewable energy integration and evolving power grids, energy storage (ES) technologies (e.g., pumped-hydro, batteries) are expected to help enable improved lower-carbon electricity systems. ... the study aims to inspire effective public communication, policy design, and implementation strategies for democratic energy technology ...

The deployment of grid-scale electricity storage, including battery energy storage systems (BESS), has accelerated with the transition toward a decarbonised and flexible electricity system and the electrification of the wider energy system. The emergence of storage and its rapid growth has demanded new public policy responses. This report shows that Ireland has been a "leader" ...

Exploring the challenges of social acceptance of PV energy storage systems in a developing country. ... Despite the governmental efforts toward alternate energy policies for public facilitation. However, such systems have not been able to attract a large number of consumers. 2 Indeed, transition to renewable and clean energy systems is ...

Site for Project 4.6 of "NESTNet" (NSERC Energy Storage Technologies Research Network), based out of the Centre for Urban Energy at Ryerson University. All research presented here made possible by the financial support of the Natural Sciences and Engineering Research Council of Canada (NSERC ...

From job creation and economic growth to energy independence and improved public health, the social benefits of solar energy are vast and transformative. Join us as we delve into the many ways solar energy can contribute to a brighter, more sustainable future for all. Social Benefits of Solar Energy 1. Job Creation and Economic Growth

In addition, policy factor as a key characteristic of in energy storage technology investment, but the research on policy uncertainty""s impact on energy storage technology investment is lacking. Therefore, based on considering technological innovation and market uncertainties, it is more important to consider policy uncertainty.

EMP synthesizes foundational data, conducts original research, and provides technical support to public agencies and others on utility-scale renewable energy and storage. Our work seeks to inform domestic and global decision-making among regulators, policymakers, grid operators, utilities, the renewable energy and storage industries, and ...

On June 28 and June 29, the U.S. Department of Energy's Office of Electricity will host the Energy Storage

for Social Equity Roundtable to explore the relationship between energy equity and energy storage.

DOI: 10.1016/J.ENPOL.2013.03.018 Corpus ID: 153532374; Social acceptance of low carbon energy and associated infrastructures: A critical discussion @article{Batel2013SocialAO, title={Social acceptance of low carbon energy and associated infrastructures: A critical discussion}, author={Susana Batel and Patrick Devine-Wright and Torvald Tangeland}, ...

The California Public Utilities Commission in October 2013 adopted an energy storage procurement framework and an energy storage target of 1325 MW for the Investor Owned Utilities (PG& E, Edison, and SDG& E) by 2020, with installations required before 2025. 77 Legislation can also permit electricity transmission or distribution companies to own ...

M. Di Castelnuovo, M. Vazquez, Policy and regulation for energy storage systems, 2018.... B. Jo, S. Jung, G. Jang, Feasibility analysis of behind-the-meter energy storage system according to public policy on... D.B. et Al., Market and policy barriers to energy storage a study for the energy storage systems program, 2013.... K.K. Zame et al.

Notwithstanding these insights, the few studies that have been undertaken into the social acceptability of energy storage have only examined the individual technologies in specific applications (Ambrosio-Albalá et al., 2019; Sherry-Brennan et al., 2010; Egbue and Long, 2012). To date no study has sought to empirically examine how citizens may ...

In this scenario, energy storage systems (ESSs) are enabling technologies to boost the stability and flexibility of the power grid in the short-to-medium term, allowing local communities to ...

Mahoney said Social Energy is looking for significant growth in the Australian market because of the prevalence of residential solar and battery storage in that country. "We've already seen a ...

As an application of sharing economy theory in the field of energy storage, CSES has typical public goods attributes (Zhou et al., 2022). Therefore, social influence plays ...

The understanding of social acceptance of energy innovations and related matters (e.g., infrastructure and applications) in three dimensions - socio-political acceptance, ...

This implies that the risk perception of a technology can predict public support for related energy policy (Stoutenborough et al., 2013; SjÖBerg, 2003). ... Social acceptance of carbon dioxide storage. Energy Pol., 35 (5) (2007), pp. 2780-2789. View PDF View article View in Scopus Google Scholar. Inkpen and Tsang, 2005.

This paper employs a multi-level perspective approach to examine the development of policy frameworks around energy storage technologies. The paper focuses on the emerging encounter between ...

Energy storage resources are becoming an increasingly important component of the energy mix as traditional fossil fuel baseload energy resources transition to renewable energy sources. There are currently 23 states, plus the District of Columbia and Puerto Rico, that have 100% clean energy goals in place. Storage can play a significant role in achieving these goals ...

Outline of the 13th 5-y plan for national economic and social development (2016-2020) of the People's Republic of China ... environmental benefits, where, and is the environmental income from the electricity sold by an energy enterprise with energy storage device. Publicity ... Investigate the energy storage policy documents issued by the ...

Energy storage systems play an important role in achieving the goal of 100% electricity generation from renewable energy sources by improving their efficiency and flexibility. Anecdotal evidence around the world has shown that, beyond techno-economic factors, social factors and partnerships in particular may significantly influence the promotion of these ...

Ville Niinistö; MEP said that now is a "key period for energy policy in Europe," and that energy storage is a big part of making the transition to renewables as economically and sustainably as possible. Niinistö; agreed that there should be a focus on green hydrogen - especially for areas such as maritime and heavy industry that are not ...

Presented by: Vermont Public Utility Commission, U.S. DOE Office of Electricity Energy Storage Program, and Sandia National Laboratories Energy storage is the key to unleashing the power of renewables; relieving generation, transmission, and distribution demands; and hastening the transition to a deca...

The desire to achieve a sustainable energy transition has increased interest among scholars and policy makers in understanding social responses to renewable energy technologies (Steg et al., 2015 ...

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