

Energy storage and the conflict between the state

What is a conflict between states?

Conflicts between states can be related to a state using, or trying to use, energy as a means in a conflict, or to situations in which securing a feature of the energy system is an objective for a state. These conflicts can pose a threat to the interests or even survival of an exporting, transit or importing state.

What causes conflict within a state?

Conflicts within a state can occur in states that are resource-rich or resource-poor, if 'energy' has destabilised the state and thereby contributed to internal instability. In resource-rich states, this situation is associated with the 'resource curse' and in resource-poor states with rising prices for energy and/or food.

Are there conflicts between energy security and environmental sustainability?

The perspective of assessment can reveal the dilemma of many countries concerning climate issues regarding the three possible sets of conflicts, namely, between energy security and energy equity, between energy security and environmental sustainability, and between energy equity and environmental sustainability.

What causes a conflict in the energy system?

Some conflicts may occur locally in close proximity to the energy system, e.g. political disputes about how to manage water, land and other natural resource. There can also be a temporal delay and spatial distribution between cause and effect which make the question of responsibility uncertain.

Does the energy system influence the incentive to engage in conflict?

However, the characteristics of the energy system affect the incentive to engage in conflict. Therefore, analyses and forecasts of conflicts ought to include both the contextual conditions and the characteristics of the energy system. It can be useful to adopt an interdisciplinary approach in order to comprehend such different aspects.

Can national security be threatened by conflicts between states?

National security can be threatened by conflicts between or within a state. Conflicts between states can be related to a state using, or trying to use, energy as a means in a conflict, or to situations in which securing a feature of the energy system is an objective for a state.

As the demand for green energy technologies--including solar panels, wind turbines, electric vehicles and energy storage--continues to increase, so too does the demand for the minerals required ...

Green Conflict Minerals: The fuels of conflict in the transition to a low-carbon economy 1.0 Introduction The mining sector will play a key role in the transition toward a low ...

Concerning the relationship between energy security and environmental sustainability and between energy equity and environmental sustainability, China as a whole ...

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In 2022 Russia was clearly using its energy weapon to make a point and pressure European states who sided with Ukraine in the conflict. Based on Van de Graaf and Colgan [8] ...

Conflict has a long history. The earliest known example of an injury from a weapon occurred ~50,000 years ago [1, 2], while the earliest record of a battle dates from least ...

Challenges associated with the development of renewable energy projects can sometimes span state boundaries and compromise interstate political stability and cooperation. The Grand Ethiopian Renaissance Dam ...

Approximately 15 states have adopted some form of energy storage policy including procurement targets, regulatory adaption, demonstration programs, financial incentives, and/or consumer protections. [8] Procurement ...

Johansson [12] conceptualised and assessed the relationship between renewable energy and security. Some studies have also analysed specific connections between ...

Heat and electricity storage devices can account for the periodic nature of solar and wind energy sources. Solar thermal systems for water and space heating are also a viable solution for subzero temperature areas. This ...

A large part of the water that flows from the Pamir and Tian Shan Mountains to the Aral Sea is used mainly for irrigation (primarily cotton), followed by industry and public supply ...

The US administration issued the executive order "Protecting American Energy from State Overreach" on April 8, 2025, directing the US Attorney General to identify and challenge state- and local-level energy and ...

Fig. 6 shows the Pareto fronts for the energy security functions (S W I and H H I), total annual cost (T A C) and efficiency of the energy storage system (max i ? B S). Fig. 7 ...

Technologies that help to increase power system flexibility are critical to reaching renewable energy integration targets without compromising efficient, reliable and cost effective ...

: ,?GDELT, ...

The large-scale integration of New Energy Source (NES) into power grids presents a significant challenge due to their stochasticity and volatility (YingBiao et al., 2021) nature, ...

Europe's gas prices have slumped to the lowest for six months as traders anticipate the escalating tariff

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conflict between the United States and its trading partners will drive the ...

Denmark, perhaps more than any other country, has attempted to embrace a hydrogen economy. National energy plans call for an ambitious mitigation of CO₂ and a ...

Link between energy and conflict Level of analysis Contextual conditions that can increase the risk of conflict (examples) ... National security can be threatened by conflicts ...

The intent is to create a body of reference material that can be used in state energy storage policymaking across diverse geographical and regulatory jurisdictions. The ...

A part of this feature is evaluating the contribution of storage toward maintaining reliable system operations. As described above, reliability in highly renewable systems becomes dependent on not only capacity, but energy as ...

China is the world's largest emitter of carbon dioxide and the second-largest consumer of energy, placing it in a pivotal role in global efforts to tackle the energy challenge ...

-2022 energy crisis was caused by many factors including the global campaign to reduce carbon emission, the shortage in fossil fuel reserves due to divestment from fossil fuels, the halt ...

Electrostatic energy storage systems store electrical energy, while they use the force of electrostatic attraction, which when possible creates an electric field by proposing an ...

Over the past decade, electric vehicles, powered by lithium-ion batteries and energy storage systems used in low-carbon energy systems ("EVNESS") 1 saw an unprecedented rise ...

The potential for the minerals critical to our energy future to motivate conflict will change the ways in which energy and national security intersect. Increasing demand for these minerals could stress already low ...

Recent gas disputes between Russia and Ukraine have renewed interest in the study of energy security in the EU. This paper's main aim is to evaluate developments in gas ...

Understanding energy conflicts requires distinguishing tenets from conceptions. The conflict in Grijskerk and Norg is about rival concepts of restorative justice. Institutionalising a ...

The German state acted as a "de facto speculator" by supplying state funds and instructing Trading Hub Europe (THE) earlier this year to buy gas to fill the country's storages quickly, because THE then"acted like an energy ...

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Energy flows decrease the propensity for militarized conflict between two states. Imports in natural gas and electricity pacify states more than imports in coal and oil. Country ...

The balancing or duck curve problem has driven a boom in the development and integration of energy storage into renewable energy projects and power grids, supported by ...

Explore how market forces and state policies are shaping the U.S. energy transition amid federal shifts. Despite policy uncertainties, renewables continue to grow, driven ...

Two-junction TPV cells with efficiencies of more than 40% are reported, using an emitter with a temperature between 1,900 and 2,400 °C, for integration into a TPV system for ...

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