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DR in Norway leads to decreases in expected electricity price and total system cost by exporting exible electricity and importing low price electricity. Additionally, it aects hydropower and reservoir management. Keywords Demand response · Stochastic optimization · Energy system · Hydropower · TIMES model 1 Introduction

This study sets out to analyse how Energy Communities are currently implemented in Norway, Sweden, Finland and Denmark, and furthermore looks into similar models in three other European countries. In relation to Energy Communities, Nordic Energy Research (NER) also wants to investigate questions linked to market access, grid ownership and operation, and tariffication. ...

All around the world, the energy consumption is increasingly putting pressure on existing grids. In Norway, the software company eSmart is taking up the battle, and together with Fredrikstad Energi and NXTech they have established the initiative E2U that provides energy companies with smart grid solutions. Norway is the first country in the world to implement a ...

In contrast, hydropower-based energy systems smooth out the transition both technically and economically. Norway is a front-line runner with more than 95% of its electricity originating from hydropower, which buffers not only the local market but also that of the Nordic region through the Nordpool electricity market (Norwegian Water Resource and Energy ...

The Renewable Energy Cluster (RENERGY) is a facilitator of high-value cooperation between parties. We accelerate the sustainable transition to a future built on renewable energy and clean technology by developing innovation projects and new energy business models, and bringing members closer to markets, customers and peers.

RENERGY er en nasjonalt ledende klynge som bidrar til bærekraftig verdiskaping og raskere omstilling til fornybarsamfunnet. For å oppnå dette jobber klyngen med å fremme innovasjon samt økt produksjon, effektiv omsetning og bruk av fornybar energi og tilhørende teknologier.

The electricity sector in Norway relies predominantly on hydroelectricity. [3] [4] ... Statnett is the transmission system operator in Norway, operating 11,000 km of high power lines. [12] There are plans to upgrade the western grid from 300 to ...

the emergence of climate-related financial risks and their influence on Norway"s decisions regarding future production and the management of its SWF; whether power systems become decentralized or retain a core of large-scale, centralized generation and, in turn, the role of interconnectors and Norway"s hydropower; and

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The Norwegian Energy Regulatory Authority (NVE-RME) is the national regulatory authority for the electricity and natural gas markets in Norway. Our main statutory objective is to promote socioeconomic development and environmentally sound energy system with efficient and reliable transmission, distribution, trade and use of energy.

Norway produces a large amount of flexible hydropower, which will continue to be the backbone of its energy supply system. Hydropower production is also important in the context of climate change in Europe, and hydropower production makes it possible to maintain security of supply in the Norwegian and Nordic electricity systems.

The Renewable Energy Cluster (RENERGY) works to develop energy systems, value chains and business opportunities by uniting participants with complementary roles for cooperation based development. More than 90 companies and organizations participate in the cluster, representing a complete value chain in the field of renewable energy; energy ...

Increasing awareness of climate issues in recent decades has led to new policies on buildings" energy consumption and energy performance. The European Union (EU) directive 2010/31/EC, i.e., the energy performance ...

There are specific requirements relating to transmission system operators. In Norway, Statnett is the designated transmission system operator (TSO). The transmission grid carries a high voltage, usually 300 to 420 kV, but in certain parts of the country there are also lines carrying 132 kV. The total length of the transmission grid is about 12 ...

Norway has updated its already ambitious climate targets with plans to reduce greenhouse gas emissions by 90- 95% from 1990 levels by 2050, excluding carbon sinks. The country"s robust carbon pricing system provides a solid basis for delivering on this goal. Nonetheless, Norway has considerable work ahead to meet its ambitious climate targets.

RENERGY - Renewable Energy Cluster, er en innovasjonsklynge med fornybar energi og tilhørende teknologier som plattform. Klyngen jobber for bærekraftig verdiskaping og omstillingen til fornybarsamfunnet ved å fremme innovasjon, økt produksjon og effektiv bruk av fornybar energi og tilhørende teknologier.

Norway is the world"s fourth-largest gas exporter and the eleventh-largest oil exporter; it exports nearly 90% of its petroleum production [24]. A well-balanced supply and demand characterizes energy system in Norway. However, Norway has enough energy resources to meet domestic demand and exports electricity and fossil fuels to other regions.

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