Hydro power operators press for UK rules

rethink

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Planners are currently considering ILI Group's £500m pumped storage scheme at Loch Ness, but Mark Wilson, the company's chief executive, said it would be "very difficult" to seal financing for it without a market "level playing field" for such projects.

Pumped storage plants use cheap or excess power from the grid to pump water from one reservoir into a raised basin, from where it can be released to flow back down to the lower reservoir to generate electricity.

Analysts say such plants are expensive to build but are highly efficient and can improve grid reliability and balance out fluctuations in output from wind farm

and solar power schen orage capacity is widely seen as vital to p use of renewable energy, but supporters of pumped storage say it is being held back by government failure to enable long-term power contracts that would,

Mr Wilson said ILI had a pipeline of pumped storage projects with total generating capacity of 2GW and was convinced they were the "logical" solutic to ease strain on the UK grid caused by the closure of coal plants and increase use of wind and solar.

current UK market system did not give pumped storage invest

kind of long-term security used to encourage funding of interconnectors, which link the British grid to overseas networks, or of nuclear power plants, Mr Wilson said.

ng needs to happen no

back by governi

Buccleuch Estates, one of Scotland's biggest landowners, has governmen consent for a 400MW plant at Glenmuckloch in south-west Dumfries an

Galloway. But John Glen, who is conducting a review of energy projects for Buccleuch,

said there was a need for a new government approach that would allow longe term contracts for highly capital-intensive pumped storage projects.

tors are saying they don't have enough visibility [about future returns],

Other planned new pumped storage in Scotland includes an £800m SSE plant in the Scottish Highlands. Meanwhile, ScottishPower drew up plans for a £400m expansion of its existing Cruachan pumped storage power station before the recent sale of the plant and other assets to UK power supplier Drax.



at Strathclyde university's Centre for Ener Policy said last year

that the UK government recognised storage as a way to help cut carbon emissions, but "as yet little has been done in terms of removing barriers" to investment and the technology faced a "very uneven playing field" in the energ

State-owned electricity boards had been willing to shoulder construction cost of earlier plants, but no large-scale storage investments had been made since

the market was liberalised in the 1980s, the researchers said in a discussion

A market framework that recognises the value of storage was needed along

with greater policy certainty for the private sector, they said.

Power and SSE have in the past called for cha

ScottishPower and SSE have in the past called for changes to the pricing regime for pumped storage plants, suggesting one option would be a "cap an floor" system that would guarantee utilities a minimum price for output but

also set a maximum to limit potential cost to consumers

Drax said it was considering its long-term options for Cruachan. SSE d nt on current prospects for its proposed new plant at Coire Glas.

Mr Glen, of Buccleuch Estates, said pumped storage schemes w

important given the opportunities for civil works employment offered by their construction and the questions raised by Brexit for the future role of interconnectors with European electricity networks.

chnology financing by the UK p

energy and industrial strategy select committee closes on Wednesday. While industrial scale batteries are expected to play an increasing role in energy storage, supporters of pumped storage say it is more efficient, cleane and more reliable and can be deployed at greater scale. Battery performance

degrades over time, but Scottish pumped storage plants have been operating for more than half a century.

The Department of Business, Energy & Industrial Strategy has said that it is working to remove barriers to electricity storage technologies, including pumped hydro.