expected ROI of hybrid renewable storage project in Guernsey 2030

What is the energy strategy for Guernsey?The Electricity Strategy for Guernsey covers the period up to . The Committee for the Environment & Infrastructure considered several different ways in which Guernsey could meet its future demand including solar, wind, tidal, additional interconnectors, energy storage and alternative fuels. Does Guernsey need a green economy?It is essential that Guernsey can manage its own transition to a green economy effectively and so a strategic direction must be set, along with a market structure that supports this, and provide certainty to the energy industry. The Electricity Strategy was approved by the States of Deliberation in September . What was proposed? What are the energy storage needs in ?e critical energy shifting services. The total energy storage needs are indicated by the red dotted line and are at least 187 GW in , this includes new and existing storage installations (where existing installations in Europe are approximated to be 60 GW including 57 GW PHS and 3.8 GW batteries according to IE Energy Storage repor Where should an offshore wind array be located in Guernsey?Feasibility studies to date have shown that the most optimal location for an offshore wind array in Guernsey's territorial waters is the west coast. The offshore wind feasibility report completed in is available in the downloads section of this page, along with a summary document. How big will energy storage be by ?will be approximately 200 GW by (focusing on energy shifting technologies, and including existing storage capacity of approx mately 60 GW in Europe, mainly PHS). By , it is estimated at least 600 GW of energy storage Why should a regulatory framework be developed in Guernsey?The regulatory framework must be suitable to the size and scale of Guernsey's industry, providing a mechanism to challenge decisions made by the industry, whilst also providing investors with confidence. 'Large-scale energy storage could be used early as 'GUERNSEY could be using large grid-scale batteries to store energy as early as - despite the island's draft electricity strategy stating they would not be 'cost optimal'. Targets and Energy Storage55% GHG reduction by : the role of fossil fuel power and flexibility plants must be reconsidered by and energy storage technologies provide a low emission alternative to Renewables for all | Guernsey ElectricityWe believe that everyone in Guernsey should be able to use and benefit from renewable electricity. Guernsey Electricity has installed some of the largest solar arrays installed in the Electricity Strategy published to propose With Guernsey's demand for electricity increasing, and the expectation that it will continue increasing, the Strategy outlines how Guernsey can manage and meet increased 17% in 2 years: Rising electricity prices reinforce islanders' choice Islanders have been generating and storing their own electricity with solar panels and battery storage systems for several years now, keeping their homes powered while Guernsey Renewable Energy Research was undertaken by an MSc student at the University of Exeter reviewing wind resource assessment techniques in order to outline the best options for anoffshore wind development for Guernsey renewable energy storage system Renewable electricity is generated off-island and imported to Guernsey via "GJ1" a subsea cable link to France, via Jersey. o Heating buildings is the greatest energy demand in Guernsey. o Why Be Energy Positive By ? The envisaged Guernsey Electricity (GE) trajectory means investments in infrastructure and cost

of operations could rise. But there is an ongoing debate as to how all this will pan out. Renewable Energy Team Strategy Meeting Propose the preferred method for progressing a project and/or programme for solar utilising States of Guernsey property assets. This takes into account that funding is unlikely to be Spain second country in world for stand-alone battery-based Renewable energy will cover almost half of the world's electricity demand by , according to the Renewables report by the International Energy Agency (IEA), Solar, battery storage to lead new U.S. generating capacity Battery storage. In , capacity growth from battery storage could set a record as we expect 18.2 GW of utility-scale battery storage to be added to the grid. U.S. battery storage already Unlocking Energy Storage: Revenue streams and regulationsBy , the global energy storage market is projected to grow at a compound annual growth rate (CAGR) of 21%, with installed capacity expected to reach 137 GW (442 GWh). The rising focus Energy Storage Association in India India Energy Storage Alliance (IESA) is a leading industry alliance focused on the development of advanced energy storage, green hydrogen, and e-mobility techno India's RE Storage On Course For 6 GW By Fiscal CRISIL Ratings estimates that India's renewable energy (RE) storage capacity could surge to 6 GW by fiscal , up from less than 1 GW operational as of March . It attributes this prospective growth to the Global BESS additions to top 400 GWh annually by The annual deployment of battery energy storage systems (BESS) is set to exceed 400 GWh by , marking a tenfold jump from the current yearly installations, Rystad Energy projects. MENA Solar and Renewable Energy Report Global Investment in Renewable Energy (USD Billion) Investments in storage solutions, grid Interconnectivities and CSP, considered to have greater priorities recently. It is expected that

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