Sierra leone peak shaving

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Our energy infrastructure is a very fragile and sophisticated system.There needs to be sufficient energy to meet demand at all times. We asusers must not be affected by this, because who wants to think about whether to take a shower or put a pizza in the oven?

To enable planners to respond to volatile demand, standard load profiles for various consumer groups have been created based on a multitude of data from trade associations and network operators. This makes it possible to estimate the energy and power demand relatively well and cover it by means of the available power plants.

Madrid, November 26, 2024 - SEAPLACE successfully organized a specialized Industry Day focused on Service Operation Vessels (SOV) and Commissioning Service Operation Vessels (CSOV) at INTA-CEHIPAR facilities in El Pardo, Madrid. The event brought together 70 professionals from the offshore wind sector, coinciding with World Sustainable Transport Day, to discuss current trends, technological developments, and… Read more »

The Offshore Renewable Energy (ORE) Catapult has today announced the appointment of Steve Foxley to be its new Chief Executive, following an extensive recruitment process led by its Board. He will take up the post in early 2025. Steve is currently the CEO of the Advanced Manufacturing Research Centre (AMRC) in Sheffield, part of the… Read more »

New service enhancements include extended warranty period and complimentary online training to increase customer value and support Strengthening its commitment to innovation and customer-centric solutions in the wind energy sector, Vaisala today announced service enhancements to WindCube, the industry-standard vertical profiling lidar for accurate, bankable wind data -- offshore and onshore. The new offerings will be available for new… Read more »

Elecsys Technologies, an emerging leader in electricity network management technology, has successfully integrated its innovative software platform within Ventus Energy’s Control Centre in Belfast. This collaboration enables Ventus Energy to manage its electrical safety operations and control room functions exclusively through Elecsys, setting new standards for operational safety and efficiency in the renewable energy sector…. Read more »

o ZF Wind Power enhances the flexibility of SHIFT"s modular design. Exchanging building blocks increases the capacity of the platform, leveraging the platform"s proven basis of 50 GW. o The partners" choices define the configuration of SHIFT. Whether it is to design capacity factor driven turbines with higher capacity factors, address capex oriented markets and/… Read more »

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Energy storage and grid stability specialist Pulse Clean Energy today announces the successful energisation of its 22MW / 49.5 MWh battery storage project at the Hirwaun Industrial Estate in Aberdare, Wales. The project marks Pulse Clean Energy’s first two-hour duration battery, playing a pivotal role in enhancing grid stability by storing excess energy generated during… Read more »

Upgrading old grid infrastructure is often too costly, and with ever rising energy prices and the push for green energy, you need a flexible solution to multiply available power, whilst minimizing CO2 and demand charges

When a large number of EV chargers are installed in a single location, such as a parking lot, garage, or office building, it can put a strain on the grid connection. The increased peak power demand may exceed the capacity that the grid connection was designed for, requiring costly upgrades to the feed. This could involve anything from changing the rating on the incoming fuse to upgrading the incoming cabling or upstream transformers. These upgrades can be expensive for the distribution system operator (DSO) and ultimately passed on to consumers through higher fees and charges.

In addition to the impact on the grid connection, the increased peak power demand can also lead to higher demand charges for the building. These charges are based on the highest average power over a short time period, typically 15-30 minutes. The demand charge can have a significant effect on the electricity bill and add to the overall cost of EV charging.

Pixii’s energy storage systems can intelligently communicate and interact with the EV chargers to help mitigate these challenges. By using the energy storage system to keep the peak power demand down, you can avoid costly upgrades to the grid connection and minimize the impact of demand charges. The energy storage system can also be used to buy power at cheap, off-peak times and use it in the evenings when demand is higher, helping you to reduce the overall cost of EV charging.

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