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Through the application of Pareto's rule, a set of components has been identified; although these provide little in terms of fault contribution, they do account for almost all downtime when they occur. ...

Gas and nuclear power plants were on hand to fill in sudden gaps in generation. But on April 28, the gas generators failed to ramp up in time, according to two new reports, one from the grid ...

In this whitepaper, we outline the common failure modes associated with WTGs, from electrical and mechanical failures to structural disasters and trending cyber risks, as a background for carriers and ...

It provides a detailed description of the structural and substructural component failure modes with potential farm-level effects using the Failure Modes, and Effects Analysis (FMEA) approach.

This paper performs a series of numerical simulations to evaluate the potential impact of wind-borne missiles resulting from the repowering of a wind farm located near an existing nuclear power plant in ...

Claim: The power outage in Texas "shows how the Green New Deal would be a deadly deal for the United States of America."

A steep decline in energy generated by fossil fuels and nuclear power plants was largely responsible for the power outages in Texas during the deep freeze that recently gripped the state,...

While wind turbines are supposed to last 20 to 30 years--far less than traditional generating technologies fueled by coal, natural gas or nuclear power--the life of some are far less.

Because the wind does not always blow, these turbines are running at maximum power only about 35% of the time. That is low compared with nuclear power plants. Politicians need to reconsider...

In this study, we develop a novel method that combines stochastic and robust optimization to address uncertainties in wind, solar, and nuclear power outputs for robust energy ...

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