

RatedPower launches new feature that allows to hybridize a PV plant through BESS support

RatedPower's clients can now design an AC-coupled BESS into their PV projects and hybridize any of them. The new feature allows users to have the basic engineering of a BESS and to represent the outputs in pvDesign documents.

Madrid, Spain - June 21st, 2022. In their effort of maximizing clean energy's potential to fight climate change through technology, RatedPower has integrated a new feature that helps solve one of renewable energies' biggest challenges: intermittency. This development hybridizes your PV plant through AC-coupled BESS support.

"We are excited to release the basic engineering of an AC-coupled BESS that will become a fundamental piece of our entire business strategy. This pvDesign new feature is the first step to provide a complete hybrid PV—BESS solution to our clients", says Ignacio Álvarez, Product Manager at RatedPower.

Utility-scale solar PV and BESS

IRENA estimates that the deployment of large-scale storage systems in energy markets will increase by 40% each year until 2025. Battery energy storage systems are one of the most popular technologies at the moment because of a few reasons:

- It is a solution to overcome the obstacles caused by the intermittent production of renewable energy.
- BESS contributes to providing reliable and cheaper electricity in isolated grids and off-grid communities that would otherwise rely on expensive and polluting fossil fuels such as diesel.
- NREL, in [their report](#), 'Cost Projections for Utility-Scale Battery Storage', said that the prices of batteries have decreased considerably and will continue to. From

2010 to 2019, battery prices had decreased by 87%, according to Bloomberg New Energy Finance. Predictions say that by 2030, prices will be reduced by 42.7%.

- In RatedPower's [Renewable Energy and Solar Research Report: What's in store for 2022](#), +100 solar industry professionals shared their thoughts about the market. They believe that battery storage and green hydrogen have the biggest potential to be successfully implemented around the world by 2030, with 64% of them identifying batteries. Looking ahead, more than half of respondents pointed to storage options (57%) as needing more resources in the coming year.

"The synergies between storage and PV are highly consistent. The predictable daily on and off cycle of solar photovoltaics is well aligned with the battery charge and discharge needs. With the increase of renewables, battery storage has a critical role to play to successfully balance load 24/7", claims Álvarez.

BESS software for utility-scale PV players

RatedPower customers can now design an AC-coupled BESS. Through its [BESS software](#) module, you can include storage into new solar designs or into already existing projects.

Traditionally, BESS sizing is based on PV plant estimated rated power —regardless of available land or BESS requirements (i.e. capacity optimization or electrical requirements).

RatedPower has inverted the approach to make the most of the area you place the BESS and take in account the supply chain duration or capacity optimization.

pvDesign automatically locates the battery containers and the power conversion stations in the defined site. It will take into account the hours of operation of the batteries, calculate the length of the cables or perform earthworks. It will also size the interconnection facility.

As it is usual with pvDesign, the software generates the required documentation for the basic engineering of an AC coupled BESS:

- Layout,
- Bill of materials
- Design report.

pvDesign also provides the energy that is available to charge the batteries.

About RatedPower

We help companies discover the smartest ways to design utility-scale solar PV plants and maximize their potential through pvDesign, our software to automate and optimize the study, analysis, design, and engineering of hybrid photovoltaic plants in all its stages.

RatedPower has helped develop more than 43 GW in more than 160 countries. Bringing value to developers, IPPs, contractors, investors, and manufacturers, helping them make better decisions, democratizing engineering knowledge and boosting the deployment of solar plants worldwide.

More than 1,400 users from market-leading solar players trust RatedPower, including BayWa r.e., Siemens Energy, Burns & McDonnell or Engie.

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