

case study

INDUSTRIAL FACILITY

Energy Toolbase and FRV launch pioneering 'Energy-Storage-as-a-Service' model for Mexican industrial sector

THE CHALLENGE

Rio Grande Renewables, a New Mexico based project developer was awarded a portfolio of projects via a competitive bid for the City of Albuquerque. The projects required a flexible (EMS) Energy Management System controls provider that could optimize ESS paired with solar PV across multiple sites, with various load profiles. The portfolio required the EMS provider to integrate with multiple ESS hardware solutions and operate within certain jurisdictional constraints, such as no exports to grid. Furthermore, it was a requirement that all the systems be accessible under a common monitoring platform to track performance and savings.

THE SOLUTION

FRV had selected Energy Toolbase's Acumen EMS™ to join a partnership for the first project based on an 'Energy Storage-as-a-Service' model focused solely on the Mexican industry that will enable the optimization of energy consumption and savings for the end customer. This first system deployed through the model in Mexico City is a 480kW system using a BYD CHESS unit, controlled by Acumen EMS to optimize the site's power factor, provide savings, and improve the quality of the industrial facilities' electrical service. The system will not only save customers money and improve power quality but will also relieve the strain on the grid that their heavy consumption of electricity can cause, especially at peak times. This is FRV's first major energy storage project in Mexico under the EnSaaS model and will be used as a replicable model for more projects across Mexico and promises to revolutionize the Mexican industrial electricity market.

PROJECT SUMMARY



LOCATION

Mexico City, Mexico



DEPLOYMENT DATE

Q1 2022



ESS PROVIDER

BYD



COMBINED SYSTEM SIZE

480 kW/1,064kWh total ESS capacity for first project



FACILITY TYPE

industrial Center



EMS APPLICATIONS

Demand Charge Management



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