

Case Study

360° evaluation for Nizam Energy Pvt. Ltd.



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Xcelliti

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Client Profile

Established in 1869, H. Nizam Din & Sons (Pvt) Ltd. is one of the oldest business groups in Pakistan operating a diversified portfolio of businesses.

With a history of over 146 years, a team of 1500 employees across four continents and offices in China, Dubai, Pakistan, Kenya and Belgium, NIZAM is synonymous with quality and innovation.

In 2012, H. Nizam Din & Sons incorporated Nizam Energy with the vision to revolutionize the energy space in Pakistan by delivering sustainable energy solutions.

From starting our business in 2012, Nizam Energy has come a long way. Today, we are considered the leading Solar Energy Company in Pakistan.

We are the only company in Pakistan with experience in managing utility scale projects and insight into working within the confines of regulatory policies and varying geographies, both in urban and rural settings.

In the rural settings of Pakistan, solar energy is leapfrogging the electric grid, reaching places that have never seen connectivity. The introduction of our 'Pay As You Go' solar power scheme is making access to electricity easy and affordable for everyone.

For the last decade or so, Pakistan has been facing a severe energy crisis; with an installed generation capacity of about 23,600 MW, the country is facing a power shortage of approximately 3,000 MW to 6,000 MW. 144 million people do not have access to reliable electricity.



Business Situation

Nizam Energy built a web enterprise application i.e. SolarPayGo as an EMS (Energy Management System), ERP and Loan management platform in order to manage rent based deployments of solar home systems (SHS) in off grid areas utilizing telecom and banking partnerships.

Nizam Energy is looking for a complete testing solution before moving into production and contacted Xcelliti for the required services.

Solutions Provided & Benefits

The solution proposed was Xcelliti 360 Quality Evaluation Services which had covered three (3) areas:

- ✘ Functional Testing
- ✘ Load/Performance Testing
- ✘ Code Review

The Functional Testing was to provide a stable functional release before load testing and to make sure that No blocker, critical and major issue are there in the application which can hinder to perform load testing. In order to achieve the required quality and meet the acceptance criteria, Xcelliti has performed most of the testing activities through close collaboration with development team.

The Performance Testing exercise was performed subsequently, to determine the robustness of the SPG under the given load condition and identified the bottlenecks in the system. Xcelliti facilitated Nizam Energy by providing their high configuration servers for performance testing which significantly resolved many issues that was preventing us to obtain the precise performance test results.

The Code Review part of the project was executed in parallel with both Functional and performance testing. The major objective of the review was to establish whether the design and architecture is scalable as well as to identify design and code level issues. The review has identified code and design level issues and it was recommended to rectify some of priority items before creating more code. The rest of the issues might get fix later. Xcelliti team has applied its best testing strategy and practices to improve the quality of SPG. Attempts were made to maximize the coverage of whole application in order to increase the quality of SPG and customer satisfaction.