

# Load and Volume testing of an Energy Solution Application



## Client Overview

- Energy solutions provider with solar leasing and clean electricity supply business models



## Business Requirements

- The application is a next generation solution for sustaining energy deployed in web portal and mobile
- Test the consumer web portal and mobile app for registering / signing up allowing 10000 users a month
- The portal scenarios would have 1-5 concurrent users on an average and would go up to 100 on edge case
- Perform Load and Performance testing to achieve optimum response times



## Our Solutions

- Analyzed business scenarios and created customized test scripts for Jmeter load test
- Validated web and mobile application for 100 concurrent users at given time
- Conducted various database volume tests with 25 concurrent users
- Created load test environments similar to production environments
- Provided comprehensive reports



## Tools

- Jmeter 5.0

## Engagement

- 1 Test Lead  
1 Test Engineer  
1 Month for 2 rounds of load and volume testing



## Business Impact

- Achieved 3-4 second response time for loading the portal page and saving records
- Achieved seamless tab transition
- Optimized Web and Database servers memory and CPU usage and response times



INDIA  
Chennai  
+91 44 6606 9100  
Bengaluru  
+91 80 4645 7777  
Mumbai  
+91 022 6215 4028

USA  
Cupertino | Princeton  
Toll-free: 1 888 207 5969  
SINGAPORE  
+65 9630 7959

UK  
London  
+44 773 653 9098

General Inquiries: [info@indiumsoftware.com](mailto:info@indiumsoftware.com) | Sales Inquiries: [sales@indiumsoftware.com](mailto:sales@indiumsoftware.com)

[www.indiumsoftware.com](http://www.indiumsoftware.com) | ©Indium Software