# Energy & Utilities Cocc Study



## Test Automation Solution for an Energy Analytics Application



#### Client Overview

Client is an energy analytics solutions provider with an integrated suite of solutions that orchestrate energy systems using data

#### **Business Challenges**

- Understand and verify application portfolios, dashboard operations and events (maintenance triggers, anomalies etc.) associated with the system workflows
- Validate static and dynamic data values in real time and for historic records for different dashboard features and scale up for various portfolios
- Automate data validations using custom framework and report critical deviations in data operations
- Adapt to data requirements and data portfolios (increase in energy systems) with a sustainable test plan

### 

- Prepared solid test strategy Smoke and Regress Suite based on understanding of the end to end dashboard operations and data flows to ensure complete test coverage
- Performed Data Validations with seamless querying into Static Value and Dynamic Value databases for various metrics in the dashboard
- Used Automation framework Selenium with Cucumber to execute tests for over 600 Test Cases
- Implemented Agile Test Methodology for scalable test plan; Provided continuous QA support in a streamlined process –standard defect reporting, test artefacts, optimization of test cases

#### Business Impact

- Application understanding laid the foundation to a firm test plan.
   This provided flexibility to execute agile requirements and add test cases for increasing portfolios / functional requirements
- Test cycle improved by a significant 80% by configuring Smoke and Regression Suites and streamlining the test focus
- Effective resistance to manual errors in Data Validations for the intense data driven application







