

IMPROVED QUALITY ASSURANCE FOR RENEWABLE ENERGY SYSTEM

SIMR project developed by our client, a leading company in the renewables industry, in partnership with Noesis, had the main goal to guarantee the quality and the standardized methodology of the project by testing the software functionality in 12 countries.



Sector:
Energy and Utilities

Business Unit:
Quality Management

Solution:
SIMR (Integrated Multi-Geographic Renewable Energy System)



2500+
End Users



1500+
Automatic Tests
executed



12
Countries



740+
Defects Reported



THE CHALLENGE

The vast number of projects in different countries led our client to improve the performance of SIMR (Integrated Multi-Geographic Renewable Energy System), a platform to integrate various information from renewable energy systems from different geographies. To keep a good system performance, the client decided to work with Noesis Test Team to guarantee the quality of new systems' features identified by the business and to implement standardized processes aligned with a single SAP system.

GOALS

Noesis was the partner for Quality Assurance Services throughout the value chain of planned deliveries, in a context of customized project methodology of good practices of the Agile and Waterfall models through a solid Governance model based on PMI good practices. The main goal for this project was to improve SIMR performance in various ways:

- › Implementing standardized processes aligned with best practices for all SIM-R system geographies- with a single SAP system.
- › Ensuring the quality of the new SIM-R system functionalities identified by the business with the help of Noesis Test Team.



SOLUTION

During 2 years, Noesis' team ensured the quality and methodology standardization of the SIMR system by testing software and new systems' functionalities. The project plan was divided into several phases:

- › Phase 1 - GAPS (Integrated Unit tests for new features)
- › Phase 2 - System Tests
- › Phase 3 - Acceptance Tests
- › Phase 4 - Post-Go-Live Support

Having as main testing activities:

- › Test strategy and planning
- › Test case design
- › Test case execution
- › Test automation focus on sap transactions
- › Defect management
- › Acceptance testing support key users
- › Support users on post-go live

Main Quality Milestones

01

Development/SIT

System tests done by: test team

02

System Verification

System tests done by: Test Team

03

System Validation

Acceptance tests done by: Key users with local support of test team

04

Production

Post-go-live support done by: test team



Noesis is an international tech consulting company offering services and solutions to support clients in their business and digital transformation. Noesis solutions focus on infrastructures, software, quality, and people. The organization is based on highly specialized talents, operating in nine business units and six countries: Portugal, Spain, the Netherlands, Brazil, Ireland, and The USA. Since 2020, Noesis has joined Altia, listed on The Alternative Equity Market, with over 2000 employees, 3 Datacenters, and 20 offices.



NTX® - Nginx Testing Experience is a no-code test automation tool developed by Noesis, which allows anyone in the organization to run testing and improve the quality of the software development cycle: Testers, developers, or any other organization's professional staff.

THE RESULTS

The SIMR Project is probably the largest and most complex client's project carried out to date and the key results were:

- › Robust right shore approach resulting in cost savings.
- › Best quality delivery on sprints with the test team validating in all phases with a vision of end-to-end solution starting in sit phase before the first deployment.
- › Designed and executed reusable automation test scripts for end-to-end workflows.

8.600+

Test cases were designed

16.000+

Test Case executions

600+

Test automation scripts created

1.500+

Test automation execution

740+

Defect reported