AI | A1 Energy Incident Management
In Renewable Energy Control Room
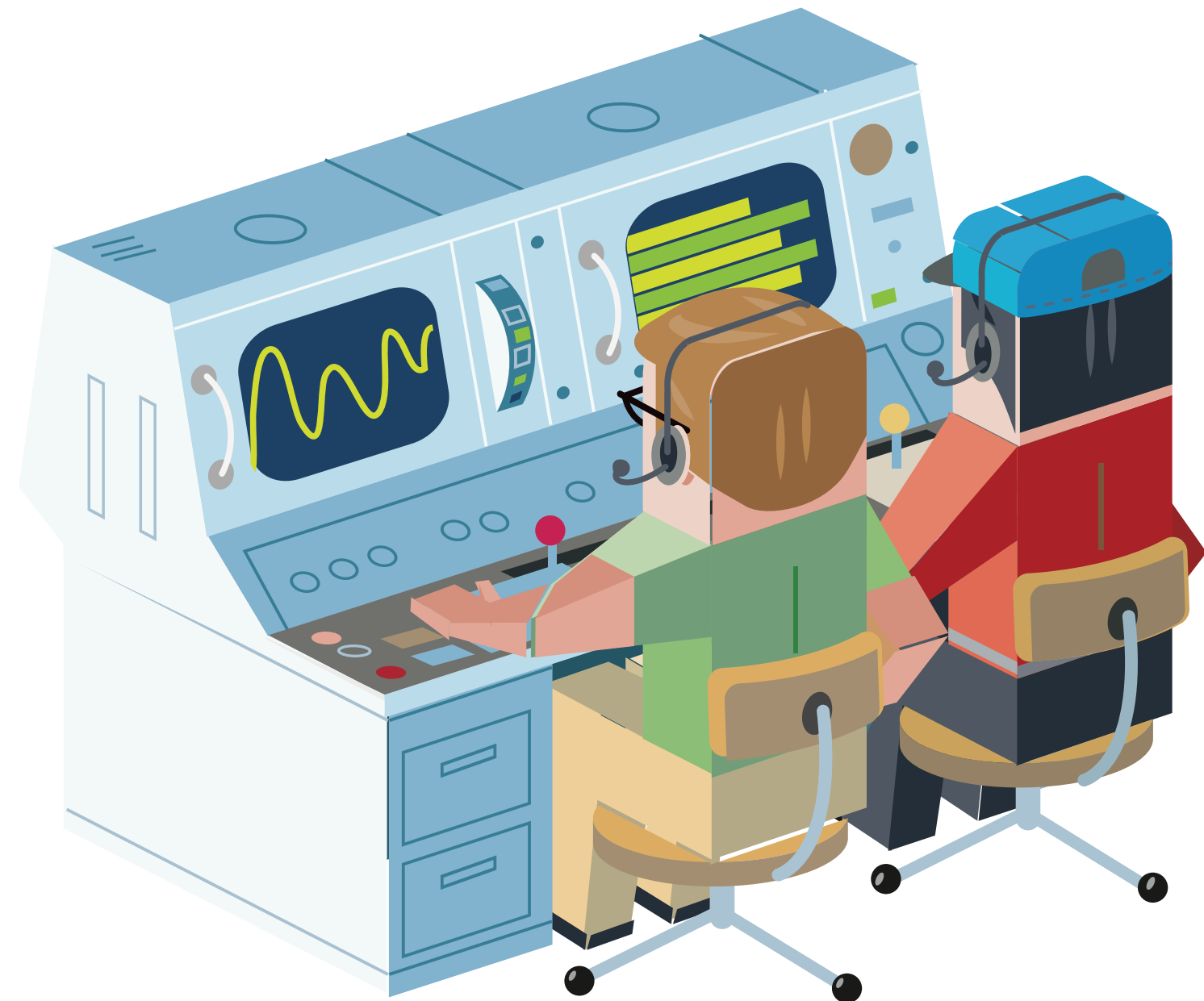
Challenges and Impact:

Renewable energy control rooms are hubs of sensors that deliver vital signs of your operations. When the team is flooded with alarms, it poses a serious challenge for the business.

The main objective is to keep the infrastructure running and avoid being offline. Too many alarms can distract operators from focusing on the most important incidents to address.

Below we highlight some of the major and immediate consequences of these alarm floods:

- Unplanned downtime
- Drop in plant's output reliability
- Fluctuation in power output results with compliance issues
- Reduced lifespan
- Significant degradation of assets

Aqovia is a global digital solutions specialist. Combining elite and cutting edge technologies we provide sophisticated, bespoke transformation solutions to the public and private sectors since 2008.

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We designed our energy incident management system to integrate in your existing SCADA architecture for easier implementation. So, you will save time and money.

Our machine learning (ML) algorithms ingest and process your sensor data to improve classification of events and alarms.

We summarise the key actionable insights:

- Prioritised list of alarms based on KPIs
- Alarm root cause analysis
- Manual and/or fully automated remedial actions
- Prediction of impeding alarms

Benefits:

- Alarms in control room reduced down to 5%
- Reduction in plant outages
- Improvement in customer satisfaction
- Reducing human error in the system
- Improvement in employee wellbeing
- Lower the average time to understand issues and impact

Features:

Our features are developed based on needs and requirements from the renewable industry. We have designed our AI technology to increase your operational time, reduce your costs and increase your revenue.

These business outcomes are achieved through:

- Machine learning trained models
- Real-time data integration and processing
- Alarm classification and evaluation
- Real-time KPI dashboard visualisations
- Cloud or on-premise deployment

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