



## Bio Pharma – Electrical System Reliability Review

| The Client                                     | Completed      | Location          | Key result   |
|--|----------------|-------------------|--|
| Global Biotechnology<br>Pharmaceutical Company | September 2018 | Limerick, Ireland | Electrical vulnerability points identified to deliver the necessary product quality. |

### The Challenge

Electrical reliability is paramount for our client’s product production. Any electrical disturbances can result in product quality issues which in turn can carry significant economic consequences. The client identified a need to review the overall resilience of the main electrical infrastructure to identify any gaps in the existing design, provide recommendations for improvement and futureproof the installation for possible expansion or connections of new loads. The scope of the project was expanded to include communications and control as well as productions systems.

### Our Solution

The initial on-site survey and data gathering was extensive and involved a number of third parties e.g. designers, installers and equipment manufacturers. Once complete, our engineers undertook an in-depth gap analysis and identify mission critical systems, carry out failure mode analysis for most significant parts of the network, identify potential issues and recommend possible improvements. Reports issued outlined the current operation logic of the electrical network, existing reliability gaps and optional measures to rectify the potential problems.

### The Benefits

This was a company that expanded gradually over several years and as a result so too was the construction of their site. This gradual development resulted in a disjoint in their electrical infrastructure. Following our in-depth data gathering a complete model of the entire system is now in place. This coupled with addressing the issues raised resulted in a substantially more reliant and robust electrical power system which can deliver production of the client’s product to the quality standards needed and prevent incidents of downtime happening.