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| Client | Project | Version | Date |
| AGGREKO | WEBSITE COPY | 1.0 – APPROVED | 30 May 2018 |

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Aditya Aluminium Case Study

30 May 2018

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| **Case study page template** | | | |
| **Page asset** | **Character count** | **Copy** | **Explanatory notes** |
| Headline | Up to 45 characters | **Black start power for a major industrial plant** |  |
| Project details | Up to 45 characters per section | **Customer**  Aditya Aluminium  **Location**  India  **Sector**  Aluminium Smelter |  |
| Executive summary area | 75 characters per section – no full points at the end of these sentences | **Challenge**  Provide black start power for the molten aluminium in the production cells due to monsoon related power failure  **Solution**  A 32 MW / 6.6 kV power package  **Impact**  This rapid response helped to ensure continuous operations throughout the monsoons season of 8 weeks and to minimise the risk of financial loss associated with catastrophic power failure. |  |
| Key facts area | 8 characters for figures/facts, 40 for supporting copy. Three or four items only | **Project fact file**  **In 2014, strong monsoon winds led to local grid failure in the area around the plant. At the same time, the plant’s 3 x 150 MW tripped, leaving the facility without power.**  Aluminium manufacturing facilities operate a continuous production process that requires uninterrupted electrical power. If a smelter goes without power for more than four hours, the molten aluminium in the production cells solidifies and the process equipment has to be repaired at significant cost.ze of vineyard  **8 weeks**  Length of vintage season | Here are some additional facts in case they are needed: |
| Main case study | 45 characters per headline/250 characters body copy. | **The challenge**  **Provide black start power for the molten aluminium in the production cells due to monsoon related power failure**  Aluminium manufacturing facilities operate a continuous production process that requires uninterrupted electrical power. If a smelter goes without power for more than four hours, the molten aluminium in the production cells solidifies and the process equipment has to be repaired at significant cost. In extreme cases, the entire smelter may have to be rebuilt. This was the situation facing the operator at one of India’s largest aluminium manufacturing plants.  In 2014, strong monsoon winds led to local grid failure in the area around the plant. At the same time, the plant’s 3 x 150 MW tripped, leaving the facility without power. In the event of failure, operators will usually turn to a black start power package to restore power independently of external electric power transmission networks. In this case, however, the Captive Power Plant (CPP) could not be restarted because there was no black start power available.  To prevent a recurrence, the plant operator ordered a permanent black start power package. However, delivery and commissioning for this system would take some time. Therefore, with another monsoon season approaching, the company decided to install a temporary black start power package that could restart the CPP in the event of power loss, before the permanent system was installed.  **The solution**  **A 32 MW / 6.6 kV power package**  Aggreko won the initial contract which was for a 6 month duration, and delivered a 32 MW / 6.6 kV package to the aluminium smelter unit. The project was complex and the requirements demanding. The system had to be capable of starting a 4.9 MW motor on DOL (direct on line) mode and controlling the voltage dip to less than 19.5% over a base load of 6 MW.  **The impact**  **minimise the risk of financial loss associated with catastrophic power failure**  Aggreko assessed the task and installed the power package to match precise customer specifications. The new critical black start power system was available at the smelter within 8 weeks. This rapid response helped to ensure continuous operations throughout the monsoons season and to minimise the risk of financial loss associated with catastrophic power failure |  |
| Product panel/carousel | Three to five examples of one line each (12-15 words) | **Products and services**  32 MW / 6.6 kV package |  |
| Aggreko difference panel | 65 characters in body copy | **The Aggreko difference**  Power for complex industrial requirement. 4.9 MW motor on DOL (direct on line) mode and controlling the voltage dip to less than 19.5% over a base load of 6 MW. | **The Aggreko difference** |
| CTA button |  | **Our difference** | For online case studies only. This link goes to the Our difference page. This is the standard text used on all case studies. |
| Video CTA |  | **Watch us in action** |  |
| Testimonial | Aim for 25 words, but can be more or less as needed | It makes good sense to use hire equipment over the vintage period. If I were unable to do that, I would have NZD $1 million tied up in equipment instead of using it to grow our business.  **Peter Yealands**  **Owner and Founder , Yealands Winery** | NOTE: During upload you can include any portion of the testimonial. All copy in red approved for use. |
| CTA – online version |  | **How can we help you?**  Get in touch and we’ll help find what’s right for you  [Button text]  **Call us now** |  |
| Map panel |  |  |  |
| CTA – offline version |  | **Tell us what you need**  We’ll help find what’s right for you  **How can we help you?**  Get in touch and we’ll help find what’s right for you  www.aggreko.com.  XXX | No email supplied |