CLIENT CASE

CONTINUOUS POWER SUPPLY TO NEW VACCINE PRODUCTION LINE

PHARMACEUTICAL CANADA

- UPS type: Dynamic UPS
- Power module: 3126 kVA
- No-break rating: 2500 kW@ 0.8 pf of net useable power
- Engine rating: Standby rated at 2763 kW
- Phase 1 install: 1 module
- Total install: 1 module in total
- Operating voltage: 600 V/60 Hz
- Configuration: Single
- Housing: Outdoor sound attenuated weatherproof enclosure

The client in this study is a leading global provider pharmaceuticals, specifically vaccines. Sanofi Pasteur, the vaccines division of Sanofi, is a global company that provides more than one billion doses of vaccine each year, making it possible to immunize more than 500 million people across the globe. A world leader in the vaccine industry, Sanofi Pasteur offers the broadest range of vaccines protecting against 20 infectious diseases.

Project Challenge

When our client decided to construct a new vaccine production line at their Toronto Ontario site, they hired IPS as the design engineer. The key was to size the critical loads properly so as to ensure everything would be covered by the Dynamic UPS. Additionally the location of the Dynamic UPS was a challenge as they did not want to take up space in the new production facility but they also had constraints on where they could locate a Dynamic UPS in an outdoor enclosure. Additionally, the location of the new production building is on the edge of their property and it borders on a residential neighborhood, so noise and diesel exhaust were concerns as well.

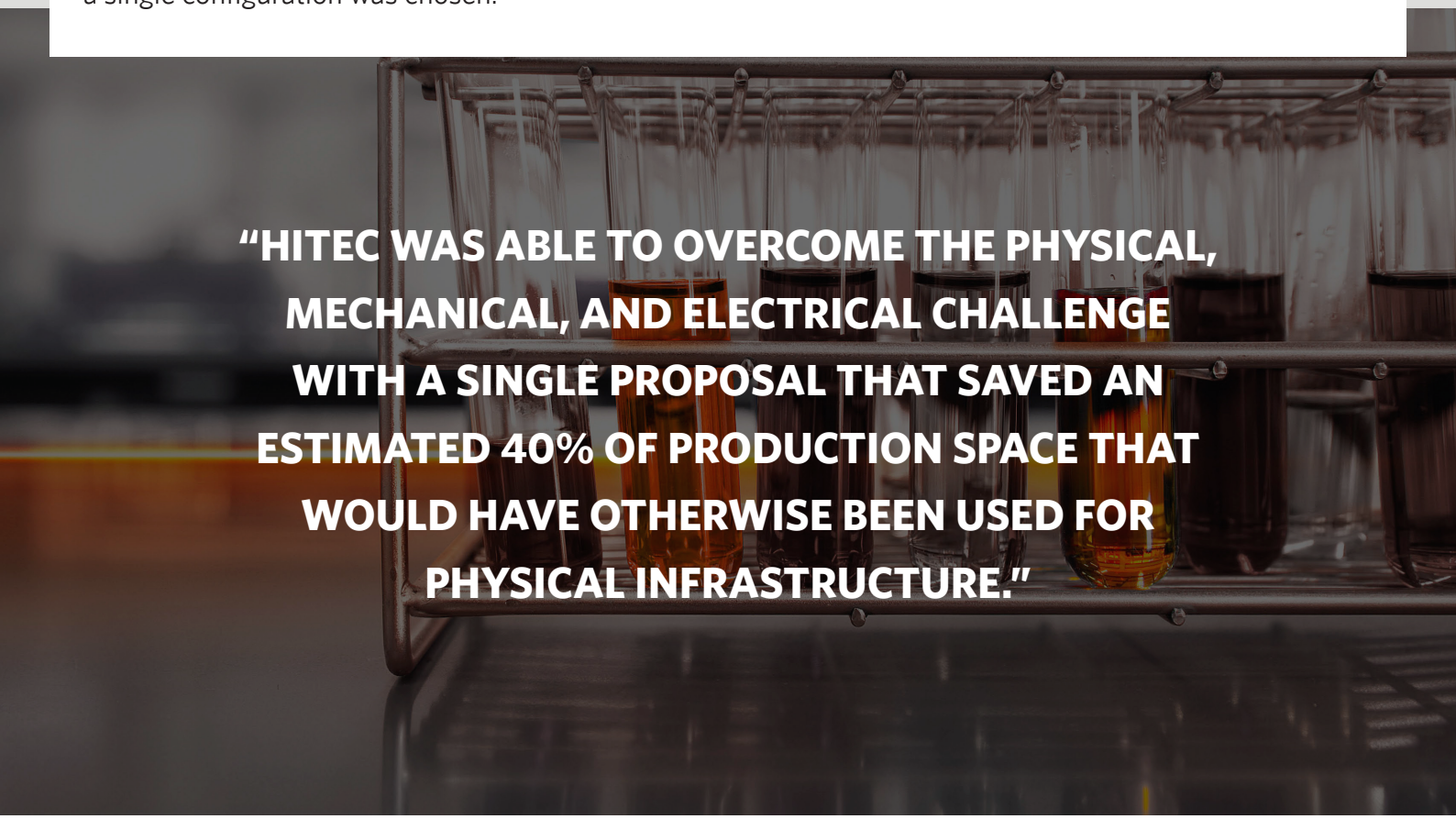
Our client decided to save production space within the new production building and to place the DUPS in an outdoor sound attenuated (65 dBA @ 7m) enclosure utilizing EPA Tier 4 Selective Catalytic Reduction (SCR) and Diesel Particulate Filtering (DPF).

To solve this problem, the client needed to find not only the most appropriate UPS technology, but also a company with the engineering knowledge and installation experience to help them configure the highest density of UPS power in the least amount of space. After considering several options, they selected HITEC.

Project Solution

HITEC helped this particular client maximize production space with an innovative solution: choosing a containerized Dynamic UPS system. Working with the design engineer over a period of eighteen months, HITEC sales and engineering optimized the Dynamic UPS solution based on customer constraints and power requirements. Ultimately a 3126kVA/2500kW Dynamic UPS in a single configuration was chosen.

As stated, IPS and Sanofi chose an outdoor sound attenuated enclosure for this critical application. The ultimate weight of the enclosure with Dynamic UPS and 4,200 gallons of diesel fuel is approaching 200,000 pounds. Based on this requirement, an engineered structural pad was designed to support the enclosure.



"HITEC WAS ABLE TO OVERCOME THE PHYSICAL, MECHANICAL, AND ELECTRICAL CHALLENGE WITH A SINGLE PROPOSAL THAT SAVED AN ESTIMATED 40% OF PRODUCTION SPACE THAT WOULD HAVE OTHERWISE BEEN USED FOR PHYSICAL INFRASTRUCTURE."

Customer Experience

By selecting HITEC, this client partnered with a company that has over 62 years of experience in rotary UPS with numerous Dynamic UPS installation across the globe in pharma applications. HITEC was able to overcome the physical, mechanical, and electrical challenge with a single proposal that saved an estimated 40% of production space that would have otherwise been used for physical infrastructure.

HITEC Power Protection

CONTINUOUS POWER
IN YOUR CONTROL

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