Case Studies

CDS®, a natural breakthrough in thermal & fluid processing

By significantly reducing fuel consumption and increasing treatment capacity, CDS® has proven its ability to enhance the efficiency of chemical surface treatment processes. This innovative technology eliminates the need for excessive energy usage, reducing operational costs and environmental impact.

Moreover, CDS® has demonstrated its effectiveness in:

- **Fuel Efficiency**: Reducing fuel consumption by up to 80%.
- **Increased Capacity**: Boosting treatment capacity by 40%.

These improvements result in more cost-effective and environmentally sustainable surface treatment operations.

Project 1 Puerto Lleras, Meta, Colombia

CDS® enables energy & operationsl efficiency

By significantly reducing the operating temperature from 152°F to 138°F, CDS® technology demonstrated its profound impact on enhancing thermal efficiency. This reduction directly correlated to decreased energy demands, particularly for boilers, where fuel consumption dropped between 60% and 80%. The system likely improved heat transfer and treatment processes, allowing operations at lower temperatures without compromising the chemical treatment's effectiveness. This improvement in energy efficiency not only translated to lower operational costs but also reduced the carbon footprint associated with fuel use.

CDS®

By drastically reducing fuel consumption, CDS® technology demonstrated its significant impact on operational efficiency. This suggests that the CDS® technology enhanced the efficiency of the surface chemical treatment by optimising the reaction conditions, resulting in less energy being required to maintain necessary temperatures. This indicates a more sustainable and cost-effective solution for long-term operations, with savings in fuel costs and potential reductions in equipment wear due to lower operational stress.

Project 2 Puerto Lleras, Meta, Colombia

CDS® promotes treatment capacity & savings

By increasing the installed fluid treatment capacity by 40% and decreasing residence time, CDS® demonstrated its profound impact on enhancing operational efficiency. This innovative technology allowed the facility to process more fluid in a shorter period without requiring additional infrastructure. This result implies that CDS® likely improved the dispersion and interaction of chemicals within the treatment process, leading to faster and more efficient separation or purification. This performance boost reduced the need for expanding physical facilities, lowering capital expenditures and shortening project timelines for new developments.

By increasing surface fluid treatment capacity without requiring additional construction, CDS® technology demonstrated its profound impact on reducing facility construction costs. By optimising the current system's performance, the need for complementary construction to handle additional loads was minimised, offering substantial savings in terms of materials, labor, and time.

To learn more info@onirik.com.au www.onirik.com.au