CASALE REMOTE ENGINEERING SERVICES

GET MORE OUT OF YOUR PLANT DATA.
Every day your plant generates a huge amount of data, which is visualized by the DCS systems and possibly stored in a dedicated machine. However, due to lack of resources, most of the time only the most prominent values and changes are really analysed.

To get the full benefit from this wealth of information, it is necessary to perform efficient statistical analysis and apply modelling tools to convert raw data into useful indicators. This is where Casale’s simulation capability can be a real help.

CaRES (Casale Remote Engineering Services) is an innovative product which enhances the value of your plant operating data by analysing and interpreting it, using the most sophisticated numerical techniques and Casale’s proven simulation techniques.

**YOUR BENEFITS**

- Get better performance indicators for the whole plant and for single equipment items
- Get operational advice from Casale experts on improving your plant performance
- Prevent shut-down and equipment failures by early detection of malfunctions.

**IMPLEMENTATION STEPS**

**Simplicity & Safety as keywords**

- Minimal footprint at your site
- No interference with existing structure
- Maximum security of data transfer
- Fully automatic data management.

**SCOPE AND DATA DEFINITION**

The first step is to define the scope of the service. You can start by analysing a single section and scale up later to the whole plant.

A Casale process engineer will then discuss with you what are the most relevant key performance indicators (KPI) for the scope and help you decide on the essential Distributed Control System (DCS) tags that are required for the analysis.

**NODE INSTALLATION**

In the next step, Casale will install a dedicated machine (called “Node”) at your site. The Node will be configured to read the selected DCS tags and will be granted read-only access to your DCS so that it will never interfere with DCS operations. The Node technology is compatible with 99% of existing DCS configurations.

The Node will securely and automatically transmit the data to the Casale Data Center at a specified interval. Data security is crucial: that’s why Casale has selected the most mature technologies to encrypt and transmit your data via a dedicated VPN tunnel, keeping your infrastructure safe.
It all starts with your plant data
Do you have enough resources to get the most out of it?
We are compatible with 99% of DCS and Historians
Add your Lab data and external data
Set your targets and what you want to monitor

Minimal footprint: a simple PC that reads your data and never writes back
No invasive or complicated setup required
Transfer securely over encrypted dedicated VPN line
Access anytime anywhere the reports from Casale servers

We define smart equipment & plant key performance indicators (KPI) according to your needs
Every plant is unique and deserves a dedicated analysis
We are modular: start with one section...
... and scale up to the whole plant

Your Plant
Casale Data Center

95+ years of experience: we do know process and technology
Let Casale know-how and computational power work for you
We know your plant and how to simulate using proprietary models

Analyse

95

Operational suggestions let Casale help your team get the best out of your plant
Profit from long-term tracking of plant performance
Easily visualize numbers that matter
Generate alerts for anomalous equipment status
Proactive maintenance it’s all about detecting failures early enough

Inspect

Report

Power by a professional team of Process Engineers
Understand trends and suboptimal performance
The perfect basis for detailed studies or revamping suggestions
WHAT DO YOU GET BACK?
Casale expertise at your service

A CUSTOMER-ORIENTED APPROACH
Every plant is different and every customer has special needs. That is why Casale’s expertise and knowledge of the plant is fundamentally important in the analysis of your data.

THE POWER OF CASALE SIMULATION KNOWLEDGE
In the Casale Data Center, we apply the most advanced statistical techniques and Casale’s own unique rigorous thermodynamic and kinetic models in analysing our customers’ data.
The goal is to transform a big bunch of raw data into a few, clear key performance indicators for the plant and for the equipment. We call that ‘value-added data’.
Casale knows the plant and what you want to achieve from it, and will build custom indicators that suit your demands. That is possible thanks to the advanced computational power and the long-term experience built into Casale’s simulation models.

OPERATIONAL SUGGESTIONS
Casale process engineers will understand trends in your plant’s performance and will spot sub-optimal operation at once, a perfect basis for suggesting ways of making improvements to the operational teams at the plant. Casale never actually operates the plant but will give advice on how to get the best out of it.

PROACTIVE MAINTENANCE
Plant data will be monitored to generate alerts for anomalous equipment status. This is what we call proactive maintenance, the perfect way to prevent failures and costly downtime.

MODERN REPORTING
A web-based weekly dashboard lets you securely access and visualize the performance indicators and the plant health status.
The dashboard will be accessible to you anytime, anywhere to help you get a grasp on your plant health.
Also, historical data will be visible, for you to visualize long-term tracking of the plant’s performance.
In addition to the dashboard, Casale will provide quarterly-based detailed reports with operational suggestions that will help your team to improve plant operations and take the right decisions ahead of time.
In the world

Sister company
CASALE PROJECT
Prague, Czech Republic

Network of Representatives
- Brazil
- China
- Egypt
- India
- Indonesia
- Iran
- North America
- Pakistan
- Russia