SABIC UK Petrochemicals Ensures EU Emissions Compliance

Sabisu has been working with Petrochemicals producer SABIC on Teesside to help them conform to strict new European Union policy combating climate change and aiming to reduce industrial greenhouse gas emissions. The project had to achieve this cost-effectively and within tight time constraints.

SABIC UK Petrochemicals are one of the world's largest chemical manufacturers with a significant UK presence including a 1M tonne/year ethylene plant and the largest low density polyethylene plant in Europe.

"Sabisu is saving us around 80-90% of the cost of delivering information presentation solutions."

Tony Porritt, Applications Manager, SABIC UK Petrochemicals

The EU Emissions Trading Scheme

The European Emissions Trading Scheme (EU-ETS) is the largest multi-country, multi-sector greenhouse gas emissions trading system in the world. It covers 45% of EU carbon dioxide (CO_2) emissions, including energy intensive sectors.

The system has been running since 1 January 2005 and requires more energy-intensive installations to report direct CO_2 emissions resulting from their facilities on an annual basis. In general, this covers CO_2 emissions from direct combustion of fuels, process emissions (where CO_2 is produced as a by-product and vented), and in some industries, CO_2 production from flaring.

In Phase 3 of the EU-ETS, running from 1 January 2013, the requirements to report
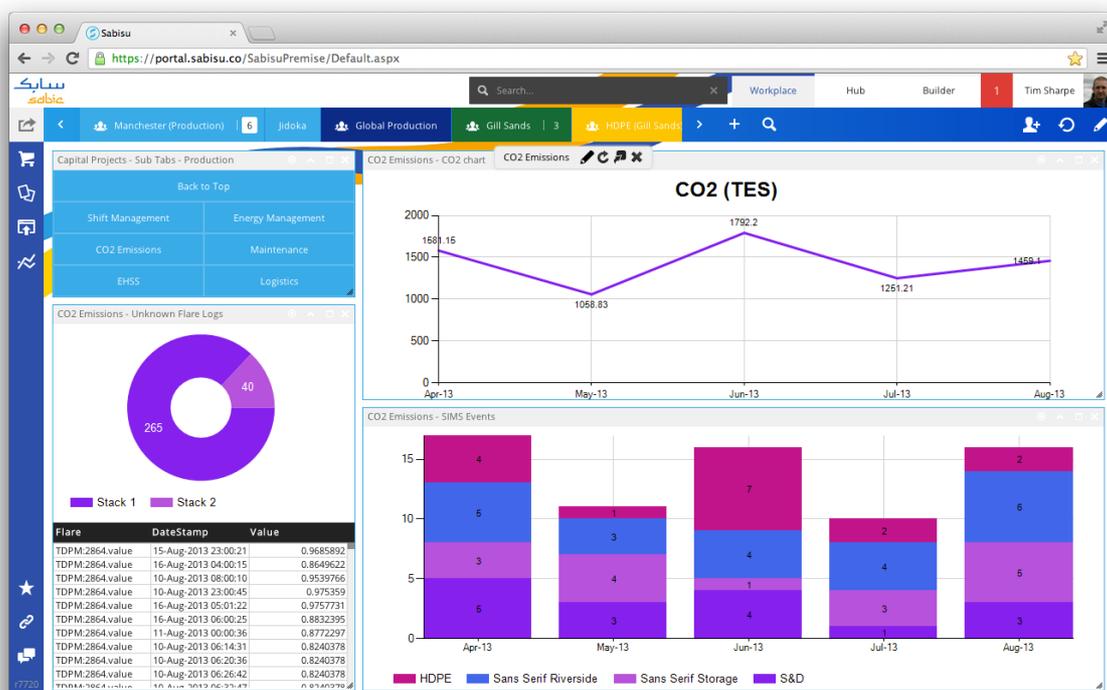
CO2 emissions from flaring has been extended from the Upstream and Refining industrial sectors to cover other sectors, including petrochemicals.
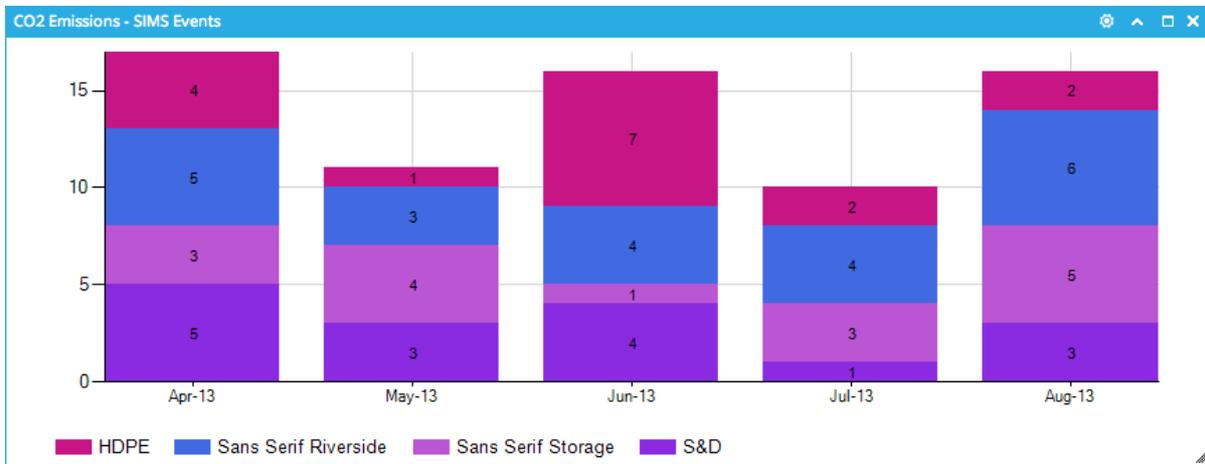
Scenario

While most petrochemical sites have multiple flares they are not always directly metered, which makes accurate emissions reporting a challenge. Using process historian data and operational maintenance logs, SABIC developed calculations which indirectly derive daily CO2 emissions based on operator actions or maintenance activities.

The goal was to measure all emissions sources including flares, steam releases and safety critical events. Jacobs Consultancy was asked by SABIC to review this procedure and ensure it accurately reported annual CO2 emissions from flaring.

Sabisu was chosen by SABIC to calculate and display these key performance indicators, bringing the right data to the Operations team. SABIC now have an EU-ETS Community page in Sabisu where **everything is in one place** including data for carbon emissions, safety critical events and unknown steam releases.

CO2 Emissions - SIMS Events

Operators are able to review shift logs retrospectively and identify where a release occurred, enabling them to see the causal link between an event taking place and resultant emissions as calculated by Sabisu. Improved visibility encourages the Operator shift teams to monitor flaring emissions more proactively.

Benefits after using Sabisu

EU-ETS Phase 3 compliant reporting	Increased visibility of flaring emission events	Proactive monitoring of flaring emissions
✓	✓	✓

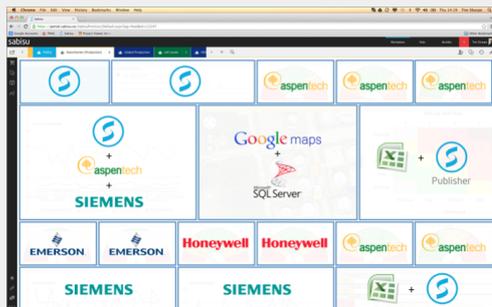| Questions? Call us.	Request a demo.	Take a tour.
We're here to help. Call us and speak with a Sabisu Specialist who'll answer any questions you might have.	One of our Specialists will show you how Sabisu can help you and your business.	Give Sabisu a try by signing up free trial. You'll get a fully functional account.
+44 161 973 3138	REQUEST A DEMO	TAKE TOUR

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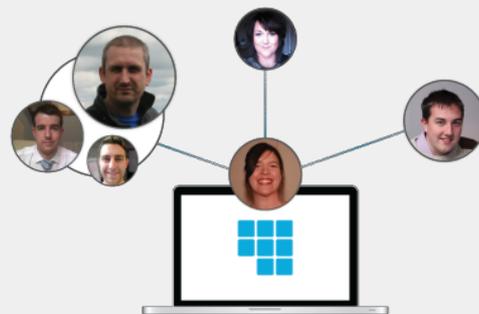Sabisu connects manufacturing and enterprise data to build great solutions.

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