

The background image is a wide-angle shot of a busy port terminal. In the foreground and middle ground, there are numerous stacks of colorful shipping containers (red, green, blue, yellow) arranged in neat rows. Several large gantry cranes are visible, some with containers being moved. The sky is overcast. Overlaid on the image are various digital elements: a network of glowing blue lines and nodes, resembling a data or power grid, and some yellow and green light effects emanating from the container stacks. The Siemens logo is prominently displayed in the top left corner.

SIEMENS

Intelligent power management

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Porto Sudeste, in Itaguaí (Rio de Janeiro - Brazil), was looking for a solution capable of increasing energy efficiency in their operations. The idea was to provide information about consumption and demand on a cloud platform that would favor data viewing. Meeting this need led to Siemens developing the E2go application.

Porto Sudeste, located in Itaguaí in the state of Rio de Janeiro, Brazil, exclusively handles iron ore solid bulk cargo. The use of electric power is not only essential to the port's work, it is also one of the main variables in the port achieving greater efficiency and operational profitability.

To improve its management of power and consequently increase its energy efficiency, Porto Sudeste reached out to Siemens in search of a solution. An extensive joint creation process involving engineers and client experts as well as the MindSphere Application Center (MAC) team located at the Siemens office in Jundiaí yielded an answer.

Created to meet the demands of Porto Sudeste, E2go aims to increase the port's energy efficiency from one source. The platform gathers as much information as possible about consumption and demand, favors data viewing to improve on-site power management and can be accessed remotely.

The platform collects and applies intelligence to the data from metering devices and protection relays to enable greater transparency in power consumption. This facilitates initiative-taking and aims to reduce operating costs.

"E2go is a practical solution and has been bringing benefits regarding operating control, with requirement adjustment versus contractual power conditions. We needed something that would computerize this control and E2go has been meeting the port's needs in this sense."

Rafael Martins
(Power Manager and Engineering Coordinator at Porto Sudeste)

After the joint creation in Porto Sudeste, E2go has begun to be marketed as a Siemens Software as a Service (SaaS) that offers solutions for monitoring primary power in installations. Access to this data is made securely through mobile devices and personal computers.

The platform is also unique in the sense it can be adapted to the needs of each user, with different graphics generated to monitor energy indicators, including generation, consumption, demand and voltage profiles.

Discover our other digital tools for power management, too:

Energy Efficiency Analytics (EEA)

A digital tool for industry that offers an overview of an entire plant's energy consumption, focusing on the use of analytics. This solution achieves considerable energy and CO₂ emission savings by remotely collecting energy and process data from the plant and making this available in the cloud with the use of analytics tools, apart from actions to reduce energy consumption on the site.

SCADA as a Service

This service offers real-time monitoring. Clients may acquire the service with a subscription but are not required to buy and install the tool in their infrastructures. The solution, based on the Siemens SCADA system called Spectrum Power, is devoted to energy generation, transmission and distribution plants.

Siemens Ltda. Brasil

Rua Gerson Benedito de Assis, 281
Distrito Industrial
13213-081 – Jundiaí – SP – Brasil

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