



Cargill supplies insulating vegetable oil to Elektro

Company distribution transformers will use fluid with increased fire safety and load capacity

Elektro began installing Green Transformers, which use Envirotemp™ FR3™ fluid, produced by Cargill, in two cities in the concession area of the distributor: Limeira and Campos do Jordão. The Green Transformers are equipped with technology that replaces mineral oil with vegetable oil. It is innovative in the sustainability, safety and efficiency aspects.

The advantages are thanks to the Envirotemp™ FR3™ fluid, a natural ester derived from renewable vegetable oils that provides greater fire safety, increased load capacity and longer transformer use life, as well as environmental benefits superior to mineral oil. Since it is derived from renewable raw materials, its carbon emission is low and unmatched by any other choice of insulation fluid. Therefore, vegetable oil is suitable for areas near waterways, densely populated areas and close to parks or other external areas of the community.

According to Marcelo Martins, commercial manager of Cargill Industrial Specialties, Elektro gains greater efficiency by adopting the natural ester option. He explains that "A transformer immersed in Envirotemp™ FR3™ fluid can operate at a temperature 20 °C warmer than the mineral oil equivalent, maintaining the same use life expectancy. This high temperature capability allows for up to 20% load capacity of existing transformers, as well as designing smaller transformers that can use less fluid and less building materials".

Some of the world's largest power utilities and transformer manufacturers have trusted their equipment with Envirotemp™ FR3™ fluid, which has been used in more than 1,000,000 power and distribution transformers and applied to transformers up to 420kV. Elektro has already acquired four thousand units that will be installed throughout the concession area. The next cities to receive the green transformer are: Registro, Corumbataí, Pirassununga, Atibaia and Mogi Guaçu.

About Cargill

Cargill produces and markets food, agricultural, financial and industrial products and services internationally. In partnership with producers, customers, governments and



communities, and through [150 years](#) of experience, it helps society thrive. It has 150,000 employees in 70 countries that are committed to feeding the world in a responsible way, reducing environmental impacts and improving the communities where they live and work. In Brazil since 1965, it is one of the largest food industries in the country. Based in São Paulo (SP), the company is present in 17 Brazilian states through industrial units and offices in 191 municipalities and over 10,000 employees. For more information, visit www.cargill.com and [central de notícias](#). Visit <http://www.envirottempfluids.com/> for more information about Cargill's Envirottemp™ dielectric fluids.

About Elektro

Recognized eight times as the Best Electricity Distributor in Brazil, five times as the Best Company to Work in Brazil and twice as the Best in Latin America, Elektro is part of the Iberdrola Group, the 5th largest electric power company in the world. Elektro operates in 228 municipalities, of which 223 are in the State of São Paulo and five in Mato Grosso do Sul, it serves more than 2.5 million customers, approximately 6 million people.

Press Information

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