

How will a hydrogen power plant work in French Guiana?

This hydrogen will then be recombined with oxygen from the air in fuel cells to produce 24/7 non-polluting electricity and secure the supply of a competitively priced electricity, compared to the territory's thermal power plants of the territory, to 10,000 households in French Guiana.

How will EDF power French Guiana?

It will be connected to French Guiana's electricity grid through EDF's substation in Saint-Laurent-du-Maroni. The facility will provide reliable and clean electricity to power up to 10,000 French Guiana households. It will meet half of the energy demand in Saint-Laurent-du-Maroni and the Mana commune of French Guiana.

How does ceog fit with French Guiana's energy strategy?

The population of French Guiana is very quickly increasing. Guiana has to face a considerable energy deficit, especially in the west where the demographic growth is booming. By providing several MW of reliable and clean energy, CEOG fits with French Guiana's energy strategy.

Also called the Western French Guiana power plant, the project includes a 55MW photovoltaic (PV) solar park and a 128MWh hydrogen-based energy storage system, along with a battery for short-term energy storage.

SARA (French West Indies refinery limited company, Group Rubis): a key player in energy production in the French West Indies and French Guiana for over 50 years.

After successful financial close, HDF Energy starts construction of CEOG (French Guiana), the world's first baseload renewable energy power plant using hydrogen ...

The company says the project in French Guiana, which is being "duplicated" in about 20 countries, will provide 128 MWh of green hydrogen storage.

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The hydrogen yield of 860 tons per year will be produced by a 16 MW electrolysis platform, stored under pressure in hydrogen storage tanks and then provide ...

The project represents a major step in the deployment of a new generation of non-intermittent renewable power plants, therefore offering an alternative to fossil fuel with guaranteed power.

The aim of this project is to produce a stable and continuous power, night and day, like a thermal power

station but without any pollution. The CEOG project highlights our technological expertise and McPhy's ability to contribute to the scale-up of hydrogen solutions.

The hydrogen yield of 860 tons per year will be produced by a 16 MW electrolysis platform, stored under pressure in hydrogen storage tanks and then provide secure and 24/7 available electricity via high-power fuel cells in a reverse electrolysis process - enough to power 10,000 households in French Guiana at a competitive price compared to ...

Rubis Energie, a subsidiary of the French Rubis Group, combines its energy and bitumen distribution activities, mainly in Europe, Africa and the Caribbean.

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CEOG is an innovative multi-megawatt power plant designed to produce reliable and clean electricity. CEOG will provide cheaper and firm power all year long, day and night, to 10 000 homes in Western Guiana.

The Renewable solution will boost the electricity grid for 20 years, by providing a reliable energy source at a lower price than the current real cost of production in Western Guiana, and without any subsidies.

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