

## European Solar and Energy Storage Solutions

# Optima energy systems French Guiana



## Overview

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### Who are Optima Energy Services?

Optima Energy Services is a team with over 25 years' experience in the energy sector. They have helped many clients save £100,000s by identifying errors and overcharges on their energy bills. Proven history of identifying savings.

### 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.

### How much daylight does French Guiana have?

French Guiana is situated in northern South America, close to the equator. It, therefore, boasts 12 hours of daylight throughout the year, which will allow the CEOG solar-cum-green hydrogen power project to operate consistently as a baseload facility all year round.

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### Operation and Planning Tools for Inverter-Based

The U.S. Department of Energy (DOE) Solar Energy Technologies Office (SETO) Operation and Planning Tools for Inverter-Based Resource Management and Availability for Future Power Systems (OPTIMA) funding program provides \$40 million to address emerging challenges and opportunities for grid planning and operation engineers and technicians arising ...

### Centrale Electrique de l'Ouest Guyanais (CEOG) Hydrogen

The Centrale Electrique de l'Ouest Guyanais (CEOG) project under construction in French Guiana, will be the world's biggest hydrogen-based renewable energy storage facility, upon completion. Also called the Western French Guiana power plant, the project includes a 55MW photovoltaic (PV) solar park and a 128MWh hydrogen-based energy storage



### Home - Optima Energy Services

With over 25 years' experience in the energy sector, the Optima Energy Services team have helped many clients save £100,000s by identifying errors and overcharges on their energy bills. The benefits of working with Optima. Over 25 years' experience in the energy sector;

## French Guiana: Energy Country Profile

French Guiana: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. To reduce CO<sub>2</sub> emissions and exposure to local air pollution, we want to transition our energy systems away from fossil fuels towards low-carbon sources.



## FRENCH GUIANA: 1st multi-megawatt hydrogen power plant in ...

This project, installed in the municipality of Mana, is currently the world's first multi-megawatt hydrogen power plant as well as the world's largest project for the storage of intermittent renewable energies via hydrogen (128 MW h of stored energy). CEOG heralds the future of renewable energies by eliminating their intermittency through

## Powering Ghana: The Ultimate Guide to Solar Installation with Optima ...

At the forefront of this revolution is Optima Solar Systems, a. Sales Hot Lines: 030 396 0134/ 050 502 3472/ 053 167 2300/ 020 109 9668/ 056 182 7777/ 020 178 6410. causing disruptions in homes and businesses alike. Solar energy systems, particularly those paired with lithium-ion battery storage, ensure a consistent energy supply, allowing



## OPTIMA ENERGIES , OPTIMA ENERGIES



OPTIMA ENERGIES est un bureau d'études spécialisé dans le domaine des fluides et de l'énergie. La société intervient dans toutes les phases de la construction ou de la réhabilitation, lorsqu'une expertise dans le domaine . des fluides, de l'optimisation énergétique, ou de solution intelligente est requise.

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## Project

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. Combining a photovoltaic plant and mass storage of energy in the form of hydrogen, CEOG is the alternative to a classic diesel power plant.

## Valsoft Acquires Optima Energy, Expands in Energy Management

Montreal, Canada, 31 August 2023 - Valsoft Corporation Inc. ("Valsoft"), a Montreal-based company specializing in the acquisition and development of vertical market software

businesses, is pleased to announce the acquisition of the UK business assets of Optima Energy Systems ("Optima"), a market-leading provider of advanced software solutions for managing and ...



## Domov

Fotovoltaické systémy na mieru Zabezpečíme všetko od návrhu, cez odbornú inštaláciu fotovoltaických panelov a elektroinštalácie až po kompletne zabezpečenie dotácií a pripojenie do distribučnej siete. Viac info 0 + Úspešných inštalácií a návrhov fotovoltaika Budujeme udržateľnú budúcnosť predajom a inštaláciou fotovoltaiky pre všetky domácnosti ...

## French Guiana plans 140 MWh renewable energy storage system

HDF Energy's Renewstable solution combines a 55 MW solar farm with what the company says is the world's largest renewable energy storage solution, to provide a ground-breaking 140 MWh capacity, based on hydrogen for use in a fuel cell system. This is supported via secondary storage using batteries.



## ENERGY PROFILE French Guiana

developing areas. Energy self-sufficiency has been defined as total primary energy production divided by total primary energy supply. Energy trade includes all commodities in Chapter 27 of



the Harmonised System (HS). Capacity utilisation is calculated as annual generation divided by year-end capacity x 8,760h/year. Avoided

## Optima F200S Full-Height Turnstile , Stebilex Systems

A quiet and energy-efficient option for busy situations, the Optima F200S is driven by a motorised mechanism and controlled by sophisticated microprocessor control electronics. In addition to enhancing user comfort and hygiene, its touchless passage system makes sure that the arms are placed correctly after each usage thanks to its self



## Optii Data Analytics Platform

Discover how Optima Energy's Optii Data Analytics Platform transforms energy management with precise data insights, optimizing efficiency and reducing costs. often originated by and emanating from diverse systems and suppliers. Positive energy. To take control of this situation takes effort, people, manual processes, and time. Allocating

## Production facilities for the hydrogen energy industry

Innovative system technology for hydrogen energy Why Optima is the right partner Your requirements and industry trends set the pace: When joining a CCM with side reinforcements to

a prepared MEA, Optima systems will handle your valuable materials with particular care.



## Construction Begins on World's Largest Green Hydrogen

A unique baseload renewables project that combines the world's largest hydrogen power plant with a 16MW electrolyser, a 3MW fuel cell, 55MW of solar panels and 20MW/38MWh of batteries has begun construction in French Guiana.

## Optima Energy EV

Welcome to Optima Energy EV, your partner in revolutionizing electric vehicle (EV) infrastructure. Our state-of-the-art Megawatt Charging Systems (MCS) are designed to support the growing demand for medium and heavy-duty electric vehicles. ...



## Multi-Megawatt Hydrogen Plant to Power French Guiana

HDF Energy, together with infrastructure fund Meridiam and the petroleum operator SARA have started construction of CEOG Renewable® Power Plant in French Guiana, on the northeast coast of South America.

## About us

For over 30 years we have been proving the value of our energy data management platform to our customers. Our core expertise is in dissecting the true meaning of energy billing and to use it as a catalyst for insight, cost control, and robust reporting. Many of our customers have been with Optima since we first launched our unique services.



## Energy Management Solutions , Optima

With an Optima energy monitoring and targeting (M& T) programme in place for electricity, gas, water, steam or air, the invisible becomes visible. We help you understand your energy consumption, pinpoint issues and give you a blueprint to reduce energy use and increase operational efficiency. Which helps you lower costs while making your

## Filling machines by OPTIMA

Optima offers perfect filling machines for automatic or semi-automatic dosing and filling of almost any liquid. Optima filling machines fill nearly every type of liquid and pasty liquid such as pesticides, fertilizers, detergents, cleaning agents, care products, additives, motor oils, transmission fluids, and lubricants with milliliter precision.



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