

## SolarMax Energy Systems

# Camp power generation and energy storage



**RW-F10.2**

UN38.3 / IEC62619 / CE  
CEI 0-21 / VDE2510-50  
CEC

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## Overview

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Will a \$42 million energy storage project be built at Camp Pendleton?

California today approved a \$42 million grant to International Electric Power to build a long-duration energy storage project at Marine Corps Base Camp Pendleton in San Diego County. The project will provide electricity to the statewide grid and backup power to the base for up to 14 days in the event of power outages.

Why do we need battery storage projects at Camp Pendleton?

Battery storage projects like this one at Camp Pendleton are vital to building a reliable and resilient electric grid in the face of climate extremes. Governor Gavin Newsom.

How much energy does Camp Pendleton's Energy Reliability center provide?

Governor Gavin Newsom The project, to be installed at the Camp Pendleton's Haybarn Energy Reliability Center, will initially provide 6 megawatts (MW)/48 megawatt hours (MWh) of long-duration energy storage. Plans call for the system to later be expanded to a 50 MW/400 MWh installation.

What is a SAGE base camp energy management system?

The SAGE base camp energy management system is a prototype built upon a federally developed software system known as the Decision Support for Operations and Maintenance (DSOM) system).

What is a base camp energy management system?

A base camp energy management system enables central monitoring and control of vital base camp equipment and functions. It can feature automated load reduction schemes and reduced energy consumption in shelters by an average of 85% compared to tents, with superior temperature stability. PV array is one of its components.

How can a smart microgrid reduce base camp energy consumption?

Implementing a smart microgrid in combination with energy conservation measures and renewable energy sources can help reduce base camp energy consumption by 49%–84%, depending on the camp size and location.

## Camp power generation and energy storage

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### California Energy Commission Approves \$42 million grant for ...

The California Energy Commission (CEC) has approved a \$42 million grant to build a long-duration energy storage project at Marine Corps Base Camp Pendleton in San ...

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### Optimization of microgrids at military remote base camps

The research in this thesis led to the development of an optimization model for scheduling electricity production and distribution at remote contingency military base camps. This model ...



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### Technology Transition Final Public Report

The SPIDERS JCTD was a 4-year, three-phase effort to demonstrate a cybersecure microgrid with integration of smart grid technologies, distributed and renewable generation and energy ...

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## Power System Concepts for the Lunar Outpost: A ...

This paper will review potential power system concepts for the development of the lunar outpost including power generation, energy storage, and power ...

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## Energy Resilience and Conservation Investment Program ...

d. Rationale IAW 10 USC 2914: This project is critical for mission assurance at ANAD and will reduce the risk and consequences of electrical interruptions by providing ...

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## Camp Arifjan Pioneering Energy Resilience: A First-of ...

By integrating renewable energy and multiple other power sources, Camp Arifjan is taking control of its own energy security." The microgrid ...

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## The Future of Renewable Energy at Camp Pendleton

With the support of the CEC and energy providers, MCI-W will install its first



generation storage units by 2022 with Camp Pendleton at the top of the list in California's ...

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## Electricity explained Energy storage for electricity generation

Energy storage for electricity generation  
An energy storage system (ESS) for electricity generation uses electricity (or some other energy source, such as solar-thermal energy) to charge an ...



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## Army making base camps more energy efficient to ...

The Army demonstrated a number of energy efficient capabilities as part of the Sustainability Logistics Basing -- Science Technology Objective ...

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## Camp Arifjan Pioneering Energy Resilience: A First-of-Its-Kind

By integrating renewable energy and

multiple other power sources, Camp Arifjan is taking control of its own energy security." The microgrid provides balanced control of solar ...

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**2MW / 5MWh**  
**Customizable**

## California Energy Commission Approves \$42 million grant for energy

The California Energy Commission (CEC) has approved a \$42 million grant to build a long-duration energy storage project at Marine Corps Base Camp Pendleton in San ...

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## Solar, battery storage to lead new U.S. generating capacity

...

Instead, they store electricity that has already been created from an electricity generator or the electric power grid, which makes energy storage systems secondary sources ...

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## USARCENT Powers Up with Renewable Energy , Article , The United States Army



"These projects reduce consumption by reducing spot generation, introducing energy efficient technology and increase the reliability of the power grid. It gives us an ...

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## U.S. Army STAND-TO! , Smart and Green Energy for Base Camps

Smart and Green Energy (SAGE) for Base Camps improves energy efficiency and reduces the quantity of fuel needed to operate base camps by integrating a novel smart micro ...



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## ELECTRIC POWER GENERATION AND DISTRIBUTION

It is a portable power generation system that incorporates solar panels, energy storage, the one-man portable generator, and alternating current (AC)/direct current (DC) power sources.

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## State boosts critical battery storage project at Camp Pendleton ...

What you need to know: A project at the Marine Corps Base Camp Pendleton in San Diego is getting the largest grant of its kind to build long-duration battery storage that ...

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### Home Energy Storage (Stackble system)



## USARCENT Powers Up with Renewable Energy

"These projects reduce consumption by reducing spot generation, introducing energy efficient technology and increase the reliability of the power ...

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## Spr15\_Annual Marine Corps Expeditionary Energy ...

Advanced Batteries & Energy Storage Technology Marines use batteries to power a wide range of equipment and platforms in training and on the battlefield. Rechargeable batteries and energy ...

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## Smart and Green Energy (SAGE) for Base Camps Final Report

A combination of energy conservation



measures, renewable energy sources, and a smart microgrid can reduce base camp energy consumption by 49%-84% depending on camp size ...

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## **A 6 MW/48 MWh Energy Storage Project Is Coming To Camp ...**

The deployment of the zinc-aqueous battery system at the Marine Corps Base Camp Pendleton will seek to enhance the Base's energy resilience in a safe and cost-effective ...

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## **Power and Energy Storage Envisioned Future Needs and ...**

Power and Energy Storage has its highest priority goal to support industrial-scale ISRU production at the lunar south pole. Other shortfalls look to address needs of the future end state and of ...

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## **CEC Awards \$42 Million Grant for Long-Duration Energy Storage ...**

The grant was awarded to International Electric Power through the CEC's Long-Duration Energy Storage Program, which is funded by Governor Gavin Newsom's historic ...

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## The Future of Renewable Energy at Camp Pendleton

With the support of the CEC and energy providers, MCI-W will install its first generation storage units by 2022 with Camp Pendleton at the ...

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## USARCENT Powers Up with Renewable Energy

"These projects reduce consumption by reducing spot generation, introducing energy efficient technology and increase the reliability of the power ...

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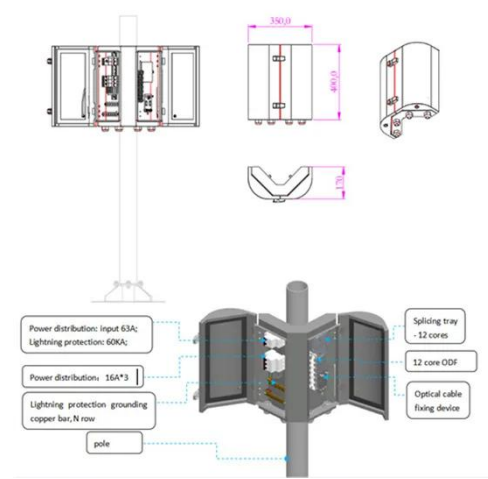


## (CUI) FY22 ERCIP Program PB (J Book and Division B)\_10 ...

Constructs a 4.8 megawatt (MW) natural gas generation plant connected to Fort Benning's electrical distribution system

and incorporates 3 MW from an existing Photovoltaic (PV) ...

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