

## European Solar and Energy Storage Solutions

# Myanmar industrial energy systems



## Overview

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What energy sources are available in Myanmar?

Myanmar is endowed with rich natural resources for producing commercial energy. Currently, the available energy sources in Myanmar are crude oil, natural gas, hydropower, biomass, and coal. Wind energy, solar, geothermal, bioethanol, biodiesel, and biogas are other potential energy sources.

How does commercial energy consumption work in Myanmar?

In Myanmar, commercial energy consumption is projected based on the energy requirements of the major sectors (industry, transport, agriculture, and households). The choice of fuel type is determined by available supply, since energy demand must be met mainly by domestic sources.

Who manages Myanmar's energy sector?

Myanmar's energy sector is managed by the Ministry of Electric Power (MOEP) and the Ministry of Energy (MOE), which together account for over one-third of public sector revenue. Before May 2022, the two ministries operated under one single Ministry of Electricity and Energy (MOEE).

How is electricity produced in Myanmar?

Electricity in Myanmar is mainly produced by hydropower and gas power plants. Myanmar also has coal, solar/PV, and biomass power plants. The electricity generation process in the model calculated the fuel requirement to produce electricity. The calculation of the primary energy requirements for electricity generation involves the following steps:

Which ministries are working on energy sector in Myanmar?

There are several ministries that are working on energy sector in Myanmar. Ministry of Energy focuses primarily on exploration and production of oil and gas. Ministry of Forestry is responsible for biomass utilization planning. Parts of renewable energy development are within the scope of Ministry of Science

and Technology.

What is Myanmar's energy policy?

Use of new and renewable energy sources is encouraged, especially solar and wind, which are abundant in Myanmar. The policy also accepts that people will still need to use traditional energy sources such as wood and charcoal. Regulations and anticipatory actions are necessary to sustain the harvesting of these primary energy sources.

## Myanmar industrial energy systems

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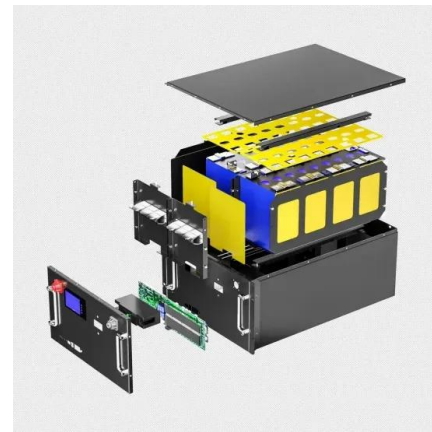


### Improvement of Industrial Energy Efficiency , GEF

To promote sustained GHG emissions reduction in the Myanmar industry by improving policy and regulatory frameworks and institutional capacity building for industrial EE and the implementation of energy management systems, based on ISO 50001, EnMS and optimization of ...

### Myanmar Industrial Energy Management System (IEMS) Market ...

Myanmar Industrial Energy Management System (IEMS) Market is expected to grow during 2024-2030 Myanmar Industrial Energy Management System (IEMS) Market (2024-2030) , Trends, Outlook & Forecast Toggle navigation



### Myanmar Country Report

Myanmar's energy policy generally strives to maintain energy independence by increasing ('others') sector, efficient end-use technologies and energy management systems are also projected to yield significant savings. In the transport sector, improved vehicle fuel by increasing the use of natural gas in the industrial sector and

### Empowering Economic Resilience: GEAPP and

## Partners Drive ...

4 ???· Yangon , Myanmar - Amid Myanmar's ongoing power crisis, the Global Energy Alliance for People and Planet (GEAPP) is leading initiatives to support small and medium-sized enterprises (SMEs) with renewable energy solutions, with a focus on rooftop solar systems. These initiatives empower local businesses to overcome the challenges of an unreliable grid--with ...



114KWh ESS

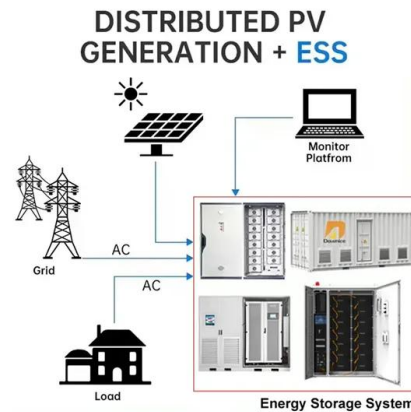


## Industrial Energy System

An industrial energy system comprises different networks that interact among each other: steam, water, electric power, fuel sources and emissions. Decisions are subject to environmental and operating constraints, as well as to frequent changes in power prices, process heating and cooling demand, and equipment availability.

## Myanmar Country Report

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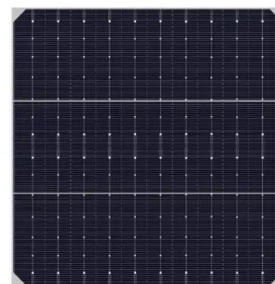
## Myanmar Energy Outlook 2020

Myanmar's energy policy aims to ensure energy independence by increasing national production of available primary energy resources through intensive exploration and development activities, including energy efficiency and conservation



## Myanmar Power Sector Review Jun 2023

power outages while industrial zones across the country are bracing for crippling power cuts and surging fuel prices. Increasing the power supply-demand gap is the major challenge to securing reliable electricity services in the country. Myanmar already faced power shortages in 2019, of up to approximately 300 megawatts (MW).



## Myanmar's Path to Electrification: The Role of Distributed ...

The Role of Distributed Energy Systems . Current residential, commercial, and industrial consumers connected to the grid experience power outages due to inadequate supplies and degraded infrastructure. Micro-Hydropower and Decentralized Renewable Energy for Myanmar Workshop, Yangon, Myanmar, November 24, 2014), 6.

## Renewable Energy powering up Earth industrial factory in Myanmar ...

Earth Renewable Energy Company - Myanmar has introduced and initiated the hybrid solar rooftop system at the Earth Industrial factory since the year 2017. The installation of hybrid solar rooftop system was started in October 2017 and completed in November 2017. It has been over a year that the electric power required for the Earth Industrial



## Myanmar Energy Sector

Myanmar identified four main drivers for its energy policy framework: to maintain energy independent, to promote utilization of renewable energy, to promote energy efficiency, to promote use of alternative fuels. There are several ministries that ...

## Myanmar Energy Outlook 2020

The Myanmar Energy Outlook 2020 (ERIA, 2020) provides a useful tool for the analysis of the historical energy demand and supply situation of Myanmar. To help Myanmar analyse the future energy demand and supply situation, the Economic Research Institute for ASEAN and East Asia (ERIA) has continued to support the Oil and Gas Planning Department



## Projects in Myanmar

To promote sustained GHG emissions reduction in the Myanmar industry by improving policy and regulatory frameworks and institutional capacity building for industrial EE and the implementation of energy management systems (EnMS) based on ISO 50 001, and optimization of energy systems in industry.



## Independent solar photovoltaic with Energy Storage Systems

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While Myanmar has abundant solar potentials, the installed capacity of solar energy is at the marginal level of 116 kW [20], [21]. 60% of the land area in Myanmar has potential to generate solar energy with Global Horizontal Irradiation (GHI) levels of between 1600 and 2000 kWh/m<sup>2</sup>/yr, and average Direct Normal Irradiation (DNI) levels of about 1400 ...



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## MYANMAR COUNTRY REPORT

Myanmar is endowed with rich natural resources for the production of commercial energy. Its current sources of energy are crude oil, natural gas, hydroelectricity, biomass, and coal. Besides these, wind, solar, geothermal, bioethanol,

biodiesel, and biogas are potential



## Independent solar photovoltaic with Energy Storage Systems

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Myanmar's energy poverty has significantly hindered the economic and human development in the country. 66% of total population lives in rural areas, but Myanmar's national grid is concentrated in urban low-land areas, limiting the energy access amid rural populations. For energy system components, diesel generators are also considered to

### About

energy system based on the energy Internet of Things, integrates development, construction, operation, management and consulting services in one professional team, and deeply builds a smart clean energy asset construction and management platform in Myanmar. Based on industrial and commercial,



## Myanmar EE& C Sector

Myanmar has significant potential in industrial and commercial activities for substantial energy saving. The potential savings are estimated at 45% for the iron and steel industry, 65% for the pulp and paper industry, 35% for sugar mills due

to their high electrical and thermal demands, and 4% for the thermal power plants.



## Myanmar: Energy Country Profile

Since the Industrial Revolution, fossil fuels have become the dominant energy source for most countries across the world. 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.

Myanmar: Energy intensity: how much energy does it use per



## Myanmar DEEPSUN Industrial solar inverter, solar controller,

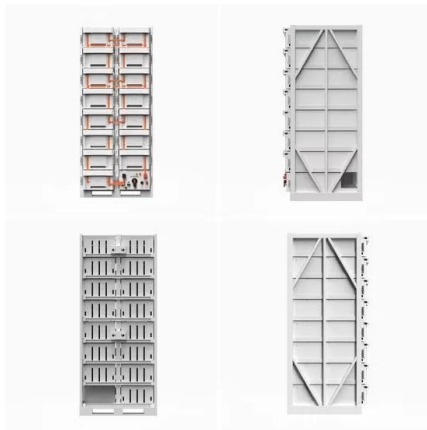
...

DEEPSUN Industrial Co. Ltd is a multinational enterprise mainly engaged in the research, development, manufacture and sales of new energy products the past five years, the

## Myanmar

New commercial and industrial solar systems. 70,000. Jobs enabled through GEAPP investments. \$300m. Finance to be unlocked with GEAPP's catalytic funding. Redefining Myanmar's Energy Future. 08.02.2024. Myanmar. Blog. Renewable Energy is Rebuilding Economies in Crisis-Affected Areas.

company has been committed to promoting green energy to replace traditional energy, and has made unremitting efforts to achieve energy independence and energy freedom for human ...



## **Resilient and low-carbon energy, transport and industrial ...**

for the Energy, Transport and Industry sectors, Myanmar should establish climate-resilient and low-carbon energy, transport and industrial systems that support inclusive and sustainable development and economic growth by 2030. o The expected results to achieve this outcome are: (i) energy security for the country is based

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