

THE PIONEERS OF HYBRID POWER SOLUTIONS
12 YEARS OF WORLDWIDE PROVEN EXPERIENCE



WE ARE PROUD TO SERVE THE TELECOM INDUSTRY WORLDWIDE

AFRICA GUINEA CONAKRY KENYA **MADAGASCAR MAURITANIA** MOROCCO **MOZAMBIQUE** NIGERIA **SENEGAL SOUTH AFRICA SOUTH SUDAN** SUDAN

TANZANIA

ASIA & OCEANIA BANGLADESH CAMBODIA INDONESIA MYANMAR PAPUA NEW GUINEA **PHILIPPINES SRI LANKA**

AMERICA HAITI PERU USA

IRAQ

JORDAN KSA QATAR

ITALY ROMANIA

MIDDLE EAST

EUROPE

GREECE



















HPU WARII POWER LIWIT

Ascot Gensets are designed and manufactured by Ascot Industrial srl Ascot Industrial srl is certified to **UNI EN ISO 9001:2015 UNI EN ISO 14001:2015** OHSAS 18001:2007

















Ascot Industrial srl reserves the right to modify any characteristic without notice. The illustrations may include optional equipment and/or accessories. Non contractual images.





Green Industry Awards for the supply of:

"2400 Solar Hybrid HPU's for IHS Nigeria, yielding a 76% reduction of carbon emissions".

PROVIDING ENERGY SOLUTIONS SINCE 1986

HYBRID POWER WORLDWIDE INSTALLATIONS

This book aims to show you the success of hybrid power generators installed worldwide at telecom sites.

35 years experience in design and manufacture of power solutions and an unstoppable research for the most efficient and clean products has given birth to many successful installations and satisfied clients.

Hybrid technology holds no more secrets for Ascot: those who trust in us are now our strength and motivation to go further everyday.



"The **Ascot Hybrid Power Unit**

is a Generating set that gives power even when the engine is switched OFF"

<< During a routine visit in early 2007, one of my clients who was involved in a massive telecom operation in Africa expressed the need to reduce fuel consumption, which was drastically affecting OPEX >>



200

First All in one Generator

In 2003 Ascot realised first all-in-one generator (with integrated control panel, ATS, lube oil system, automatic dummy load, and and fuel tank).





200

First Ascot Remote Management System

In 2004, with Ascot Remote control, telecom operators made a substantial reduction in capex and opex costs.





2

note Birth of the first Hybrid stem System for Telecom

Ascot has launched in the
Sudanese desert, the
first-ever Hybrid Power Unit
in the Telecom history.
Still in operation today.





2010

Birth of first Hybrid Control-Logic

Ascot's new Hybrid Power System can reduce Genset running hours up to 90% and fuel consumption up to 100% (merging Solar and Battery together).





2018

Birth of first Green-Friendly Hybrid

Ascot Group designs and realizes Power Plants (hybrid, diesel or natural gas), Wastewater Plants and Water Treatment Plants (for irrigation and drinking water).





WITH HPU 4 hrs/day engine run 68% fuel savings



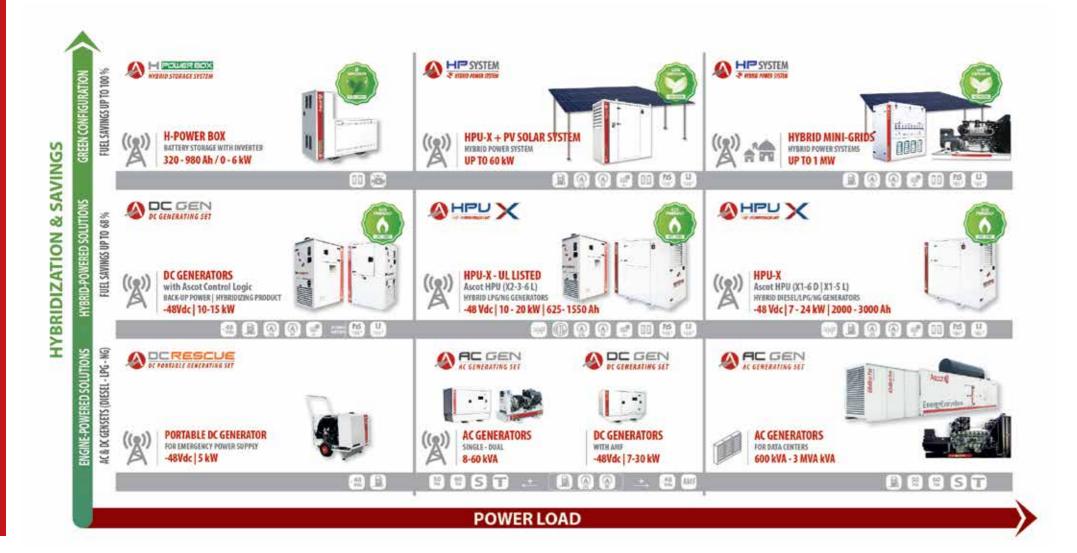


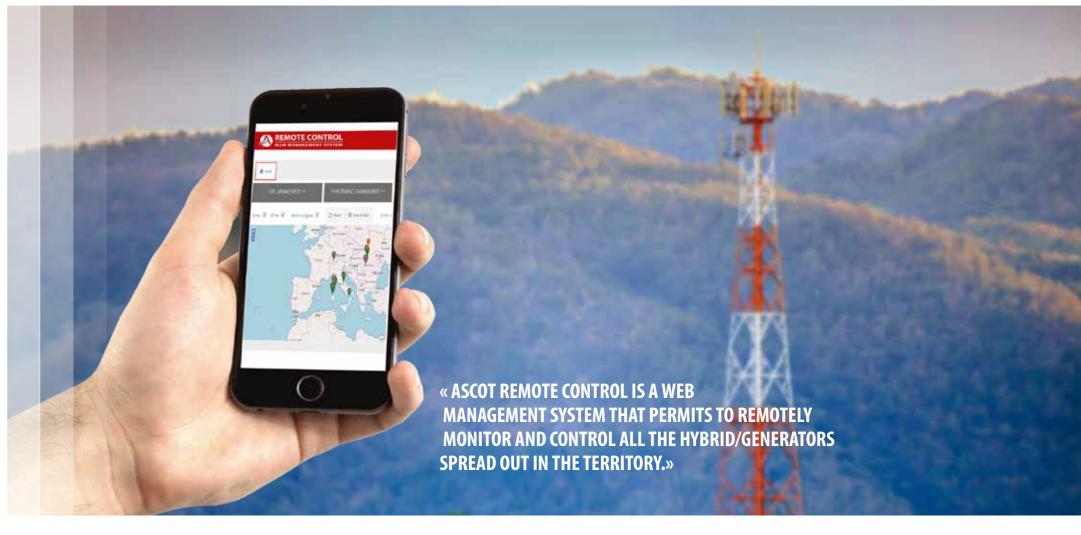




A glance to the Telecom power r-evolution









Real time Opex Control for hybrid generators

Web based management system with m2m technology



Think about Innovation!

Innovation is the key factor for ASCOT's successes.
Today our Hybrid Power System represents the leading technology for all Telecom industry needs.



HAITI HYBRID WORLDWIDE

Year | 2019

Haiti

Client

Digicel













HAITIHYBRID WORLDWIDE

DIGICEL has a longterm partnership with Ascot.

They have chosen HPU in order to reduce fuel consumption and have a reliable power solution for their remote telecom sites.



Year | 2017



NEVADA HYBRID WORLDWIDE

Year | 2019

Nevada | Challaghan

Client















NEVADAHYBRID WORLDWIDE

Comnet has chosen Ascot's innovative and off-grid hybrid power generator. Installing the HPU LPG range in remote areas, the greener and reliable power solution has permitted to achieve great savings.









NEVADAHYBRID WORLDWIDE

Year | 2016

Nevada | Horse canyon

Client















NEVADA HYBRID WORLDWIDE

Ascot's Hybrid has also ventured to the western part of America, in Nevada State.

The remote and off-grid telecom site was located in a great expence of desert.

For this reason the suitable solution was the HPU equipped with GSM and CDMA systems for the remote monitoring.



CALIFORNIA HYBRID WORLDWIDE

Year | 2019

California

Client















CALIFORNIA HYBRID WORLDWIDE

Ascot's Hybrid has also ventured to the western part of America, in California State.

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COLORADO HYBRID WORLDWIDE

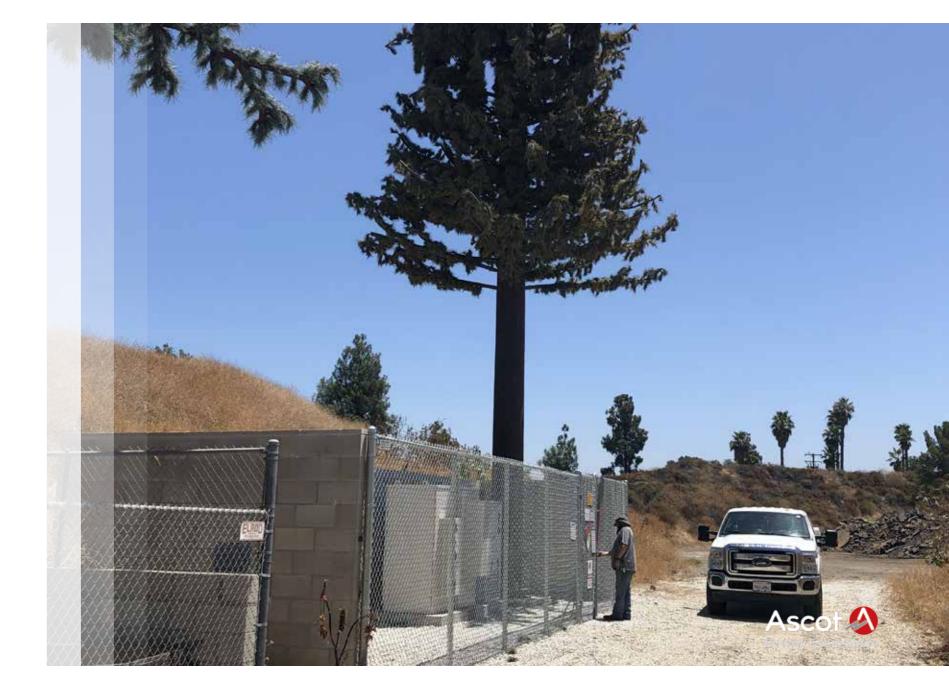
Year | 2019

Colorado

Client















COLORADO HYBRID WORLDWIDE

Ascot's Hybrid has also ventured to the western part of America, in Colorado State. The remote On-grid and Off-grid telecom sites were located in a great expence of desert. For this reason the suitable solution was the HPU equipped with GSM and CDMA systems for the remote monitoring.



PERU HYBRID WORLDWIDE

Year | 2013

Peru | Las delicias

Client

















PERUHYBRID WORLDWIDE

The Ascot Hybrid has also ventured to South America. Telefonica's remote and off grid telecom site in Chiclayo is powered by a DC HPU.



KENYAHYBRID WORLDWIDE

Year | 2013

Kenya Nairobi

Client















KENYAHYBRID WORLDWIDE

In line with world trends, Kenya is committed to becoming a greener country. Safaricom is contributing to this by installing Ascot Hybrid Solutions at their Telecom sites.



MOROCCO HYBRID WORLDWIDE

Year | 2015

Morocco | Jbal Ouziane

Client













MOROCCO HYBRID WORLDWIDE

Maroc Telecom chose to go green by installing the hybrid power solution with lithium batteries and solar panels, reducing both engine running hours and pollutant emissions.





MAURITANIA HYBRID WORLDWIDE

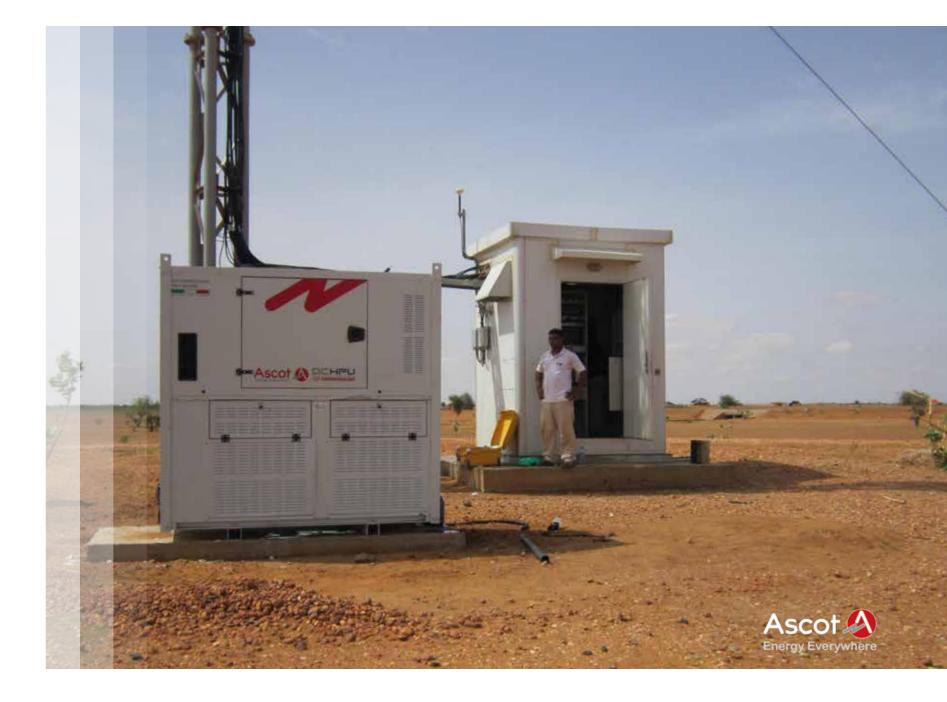
Year | 2012

Mauritania | Kankoussa

Client













MAURITANIA HYBRID WORLDWIDE

29 telecom sites on air in less than 20 days.

The Ascot team, in cooperation with Chinguitel, has "hybridized" Mauritania, installing three Hpu's per day during a two-week mission.

Each one is currently operating and achieving a fuel saving of 68%.



MOZAMBIQUE HYBRID WORLDWIDE

MOZAMBIQUE AFRICA



Year | 2013 Telecomunicações de Moçambique (TDM)









MOZAMBIQUE HYBRID WORLDWIDE

The TDM Group includes mCel, Mozambique's first mobile operator. In order to provide a more efficient service in a competitive market, many Telecom Operators are going green by choosing Ascot.



NIGERIA HYBRID WORLDWIDE

Year | 2015

Nigeria | Lagos

Client















NIGERIA HYBRID WORLDWIDE

IHS Group, is the biggest tower operator in Africa, has selected Ascot as supplier of reliable and flexible hybrid power solution for multi-tenants sites.



SOUTH AFRICA

HYBRID WORLDWIDE

Year | 2011

South Africa | Marapong

Client

















SOUTH AFRICA HYBRID WORLDWIDE

Ascot is in accordance with Vodafone 's sustainability goal of reducing global CO₂ emissions by 50% by the year 2020. The DC HPU is helping to achieve this goal.



SOUTH SUDAN

HYBRID WORLDWIDE

Year | 2013

South Sudan Juba

Client













SOUTH SUDAN HYBRID WORLDWIDE

In 2007, Zain Group shared with Ascot its wish to save Opex by having a Generator that would be able to supply energy even when switched off. This led to the creation of the DC HPU.



SENEGAL HYBRID WORLDWIDE

Year | 2014

Senegal Paffa

Client











SENEGAL HYBRID WORLDWIDE

In Senegal Expresso Group is one of the main Telecom Operators.
In June 2010 Expresso Senegal launched a GSM network, providing 3G services to the people of Senegal for the very first time.
They decided to switch up to the greener and reliable power solution in 2011 in order to drastically reduce their TCO.



TANZANIA HYBRID WORLDWIDE

Year | 2013

Tanzania | Mbeya

Client

















TANZANIA HYBRID WORLDWIDE

A challenge along the whole Tanzanian territory: Ascot & Vodacom contribute to respecting the environment by installing Hybrid solutions at Telecom sites.



IRAQ HYBRID WORLDWIDE

Year | 2010

Iraq Sulaymaniyah

Client

Asiacell - oooecoo















IRAQ HYBRID WORLDWIDE

The Iraqi adventure started for Ascot in the year 1998 with the Oil for Food program.
Today the refineries of Baiji, Kirkuk, Dora, Bashra are powered by Ascot as well as the most important telecom operators such as ASIACELL and IRAQI TELECOM.



JORDAN HYBRID WORLDWIDE

Year | 2013

JORDAN

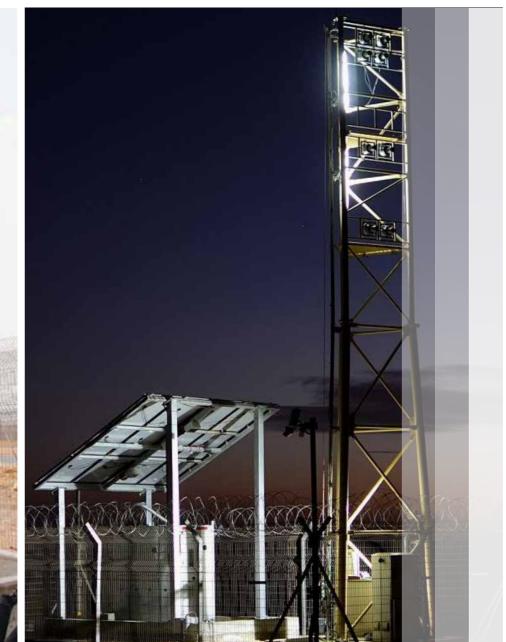
DC HPU Hybrid Power Unit
DC HPU2_SUN+











JORDAN HYBRID WORLDWIDE

Installed in countries where the sun shines all day long, the ASCOT DC HPU, combined with Solar Panels, are able to achieve up to 92% in fuel savings.



QATARHYBRID WORLDWIDE

Year | 2016

Qatar Doha

Client















QATAR HYBRID WORLDWIDE

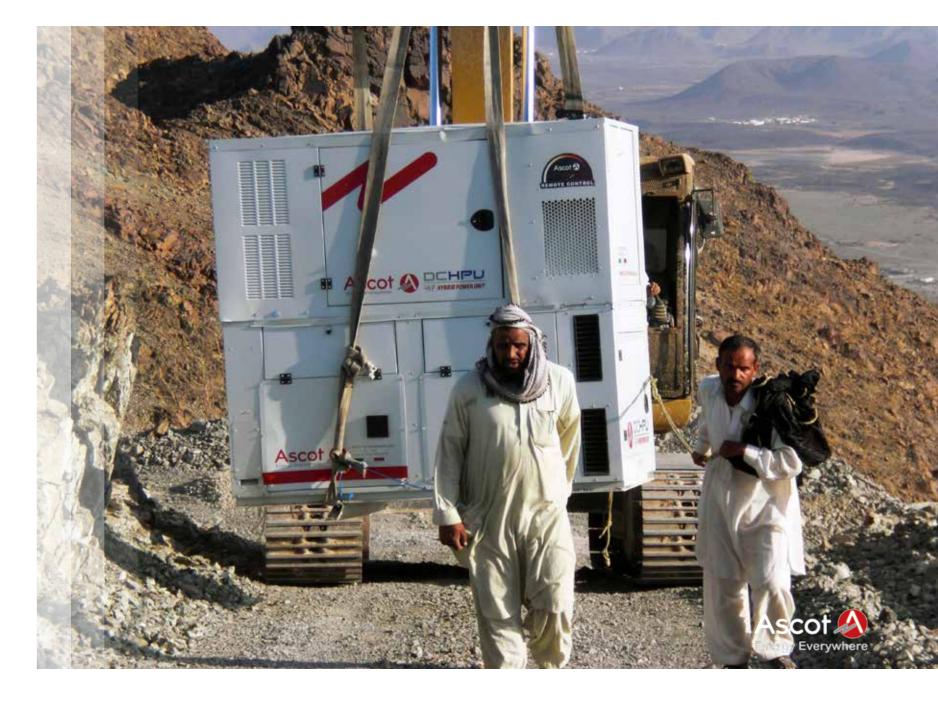
Vodafone chose Ascot for the successful installation of HPU 4S that is currently operating with a drastic OPEX reduction.



SAUDI ARABIA

HYBRID WORLDWIDE















SAUDI ARABIA

HYBRID WORLDWIDE

The first Hybrid Cow assembled in Saudi Arabia: A Hybrid Solution for Rapid Deployment sites.

FOR



STC has a longterm partnership with Ascot. They have decided to trust Hybrid solution for their Remote Telecom Sites in order to have a plug & play solution.





CAMBODIA HYBRID WORLDWIDE















CAMBODIA HYBRID WORLDWIDE

The ASCOT ASIA PACIFIC business unit, based in Malaysia, directly follows the Cambodian market, along with the APAC countries.



INDONESIA HYBRID WORLDWIDE











INDONESIA HYBRID WORLDWIDE

APAC is one of the best examples of the positive impact of choosing Ascot and the hybrid power solutions.



MYANMAR HYBRID WORLDWIDE





Myanmar | Yangoon

Client











MYANMAR HYBRID WORLDWIDE

NTS has chosen to install 55 units of Ascot's HPU 2 in its network. The units are installed in remote areas and are remotely managed.



PAPUA NEW GUINEA

HYBRID WORLDWIDE













PAPUA NEW GUINEA HYBRID WORLDWIDE

Thanks to the hybrid power solution, BMobile has achieved reliability in telecom sites located in remote areas. This has reduced the number of visits of ordinary and extraordinary maintenance.



PHILIPPINES

HYBRID WORLDWIDE







SEMI-KNOCK DOWN HPU FOR REMOTE SITES

On-site Assembly instead of assembling in factory. With the installation of DC HPU (semi-knock down version), Globe overcame the challenge to reach remote telecom sites with limited accessibility due to the lack of road infrastructure.





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SRI LANKA HYBRID WORLDWIDE











SRI LANKA HYBRID WORLDWIDE

Etisalat Sri Lanka chose the new DC HPU to reduce drastically their operating costs. The Units installed are currently on air and remotely managed.



ITALYHYBRID WORLDWIDE



Year | 2015

Italy Terraseo

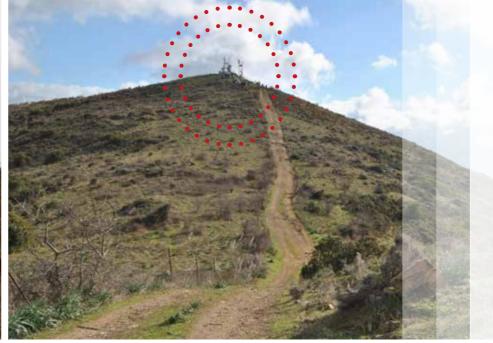
Client









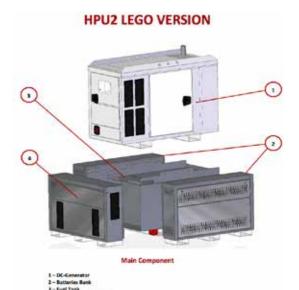






ITALYHYBRID WORLDWIDE

Vodafone Italy has chosen Ascot for its Telecom site located in a remote area of Sardinia. A full optional solution has been successfully installed and is currently operating with great savings to the satisfaction of Vodafone Group.





ITALY HYBRID WORLDWIDE

TALY •

Year | 2016

Italy | Sgurgola Tav

Client













ITALYHYBRID WORLDWIDE

A full optional HPU solution has been successfully installed in off-grid scenario. It is currently operating in a remote areas with great savings.



ROMANIA HYBRID WORLDWIDE

Year | 2017

Romania Tatu

Client













ROMANIA HYBRID WORLDWIDE

Vodafone preferred Ascot's power solution for it's mobile telecom sites located in remote areas.

The HPU was the perfect solution to guarantee low fuel consumption and less maintenance.



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RE-DESIGN THE WORLD

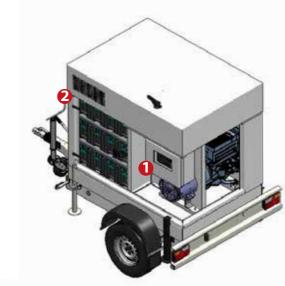
Innovation and progress has to be "one step ahead".

A mix of experience and intuition, supported by a strong presence in the market, permits our R&D team to re-design the world.

Ascot cannot be copied because our products are made by men of passion, and built in the Mediterranean where the sun and love contribute to creation of our unique solutions.



ON WHEEL HYBRID TELECOM SITE



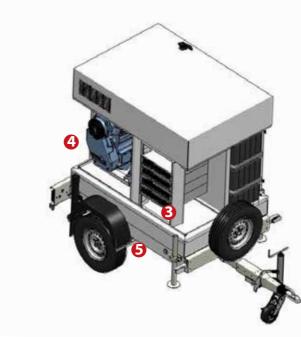
Controller

CARGO

HYBRID PORTABLE SITE

2 Lithium batteries

- **3** Rack 19" 20 U
- OC Generator
- 6 Integrated Fuel tank





- A Telecom equipment in 19" rack 20 U
- B Free cooling

THE LIGHTEST **AND SMALLEST HYBRID & DC GENERATORS**

HPU-X - HYBRID GENERATORS (10 - 15 kW) DIESEL / LPG / NG - ETL/UL COMPONENTS*

DC GENERATORS (10 - 15 kW) DIESEL / LPG / NG - cETLus CERTIFIED**

FEATURES

- Small Footprint, Size & Weight
- Compact & Easy to be moved
- Green Friendly cETLus Certification

APPLICATIONS

- On Grid Urban site instead of stand by generator
- Off Grid Temporary Site



*COMPLETE SYSTEM | ETL/UL Listed to meet UL STD 2200, CSA C22.2#14:2018, CSA C22.2#100:2014 and NFPA 30-37-54-58-70-70E. Fuel tank is double wall UL 142 listed Meets EPA Emission Regulations.

*** ETL/UL COMPONENTS | Manufactured according to ETL/UL Certification to meet UL STD 2200, CSA C22.2#14:2018, CSA C22.2#100:2014 and NFPA 30-37-54-58-70-70E. Fuel tank is double wall UL 142 listed Meets EPA Emission Regulations















We drive innovations

we design power solutions to keep up with technology and the customers needs

WHAT'S NEXT?

THE ASCOT IOT PLATFORM - THE DIGITAL ENERGY REVOLUTION

The Ascot idea is to bring intelligence on those sites that will allow the owner of the tower to save operating costs and to add many new services that could generate a lot of new opportunities.

"Ascot IoT platform is a place where IoT is used to achieve both savings and even additional revenues streams, sharing the same infrastructure and thus optimizing the investments"

THE 2 PILLARS

- Smart Energy uses IoT to improve itself through the Edge Computing
- Digital Energy provides both energy and IoT to switch to a network-level energy efficiency.

ASCOT PROPOSAL IN 5G ERA

Consolidated Hybrid Generations System,
IoT technology, High Efficiency Battery
Management, Smarter O&M, Remote Connectivity,
are all integrated in the Ascot Digital HUB providing
the following Benefits and Additional Revenues.

Even the most remote site if reached by digital energy became a smart environment where is possible to dispatch innovative services e.g. Edge Computing, building management system and IoT based smart services.







WORLDWIDE PRESENCE

IN OVER 38 COUNTRIES

















































































5.000 Hybrid Generators



"WE BRING ENERGY EVERYWHERE. ENERGY IS OUR PASSION, PASSION IS OUR ENERGY."







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