



# ENERCRAFT

Innovative Electrification Technology S.L.



North America & The Caribbean  
[www.asgltd.ca](http://www.asgltd.ca)

## Energy to Fly, Energy to be Free

PORTABLE BATTERIES & CLEAN ENERGY SOLUTIONS

ENERCRAFT  
Company Presentation  
May, 2022

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**COMPANY**



**CURRENT  
PORTFOLIO**

**G.C.V.**

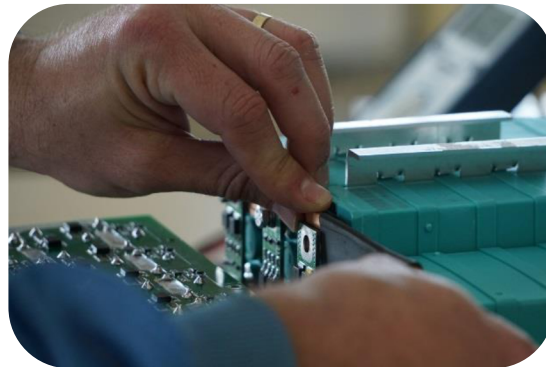
**MADE IN  
GALICIA**

\* G.V.C. stands for Galician Content Value

## WE ARE CHANGING THE MARKET



# ENERCRAFT – OUR VISION



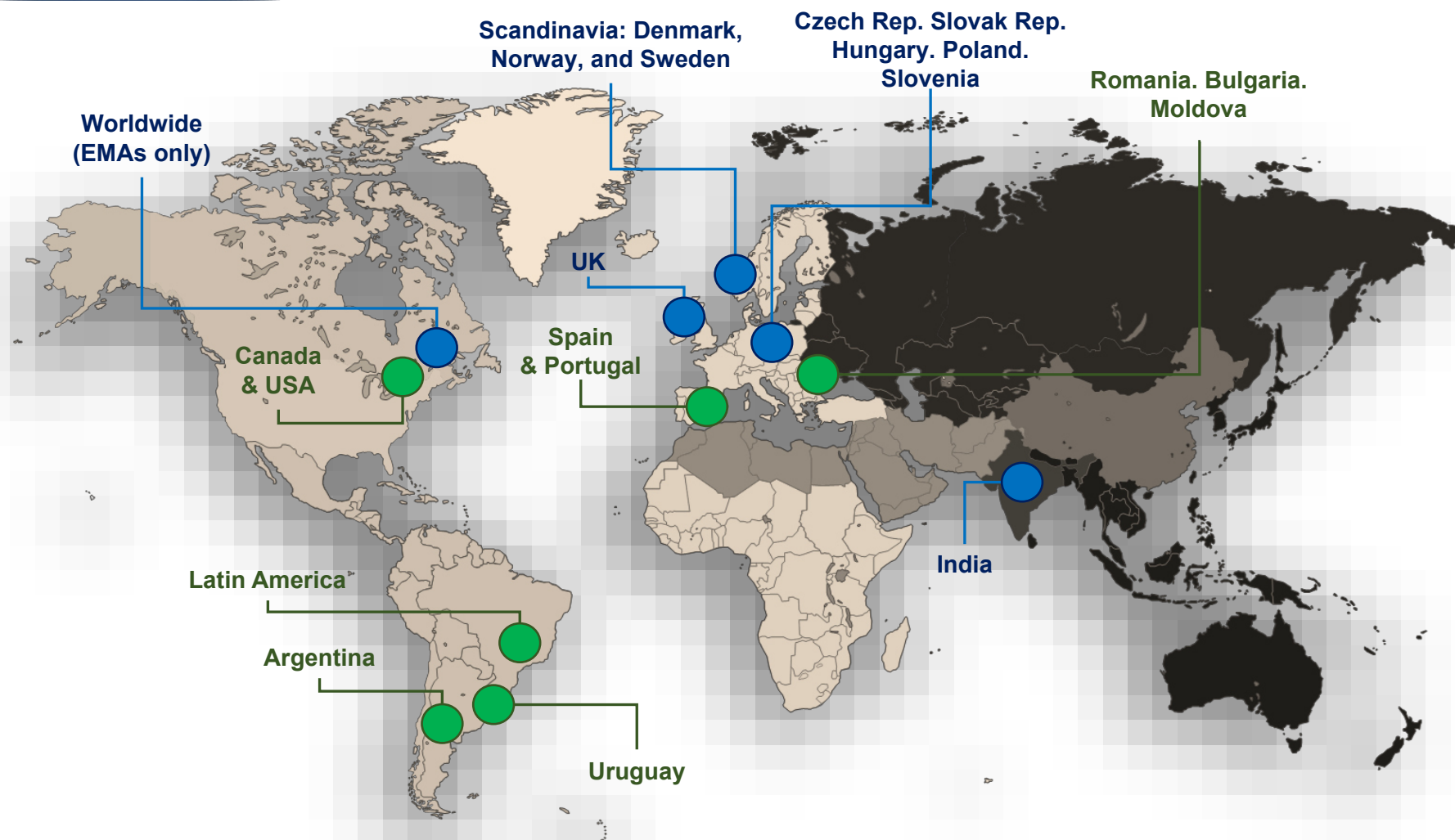
**ENERCRAFT** is a company created with the strong commitment of setting up new quality standards in the aircraft Ground Support Equipment arena, with a vision to become the worldwide sales leader in the aviation industry, as well as to take advantage of its expertise in order to explore other markets.



**WE LOVE INNOVATION**



# BUILDING A GLOBAL PRESENCE



**+120** UNITS SOLD



IN **15** COUNTRIES

 **Confirmed DISTRIBUTORS**       **In negoGaGons**





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## FROM AVIATION TO A GLOBAL INDUSTRIAL FOOTPRINT

# A WIDE & MATURE PORTFOLIO FOR AVIATION



## GPU Lite FAMILY

## Ultra-Starter FAMILY

WE HAVE DEVELOPED AN EXTENSIVE PORTFOLIO OF PRODUCTS,  
WHICH ARE SUITABLE FOR A WIDE RANGE OF AIRCRAFT TYPES





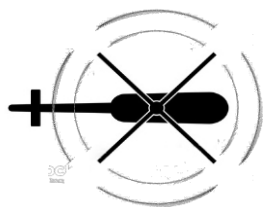
# CORE MARKETS & SOME ENERCRAFT CUSTOMERS



**ENERCRAFT Customer: DAP Helicopters** - Youtube Link: <https://www.youtube.com/watch?v=poE0nJVQAWQ>



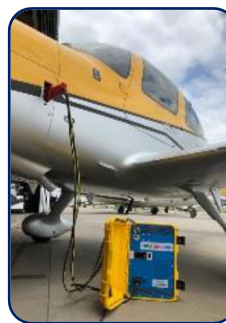
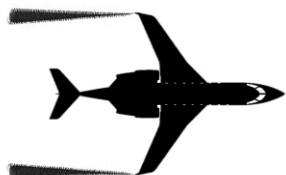
ACCOMPLISHED



- ✓ Helicopters
- ✓ Business jets
- ✓ General aviation
- ✓ Commercial
- ✓ Defence



**ENERCRAFT Customer: PERLAN Project** - Youtube Link: [https://www.youtube.com/watch?v=thzChg\\_NI6U&t](https://www.youtube.com/watch?v=thzChg_NI6U&t)



THE EFFICIENCY AND RELIABILITY OF OUR BATTERY TECHNOLOGY  
HAVE BEEN VALIDATED IN THE MOST DEMANDING INDUSTRY





**COMPACT & FULLY INTEGRATED**



**THE MOST POWERFUL UNITS COME  
NOW IN THE SMALLEST FORMAT**



  
**ENERCRAFT**

ALL RIGHTS RESERVED - ENERCRAFT



# AND AN ADDITIONAL MARKET IS TAKING OFF !

## UAV INDUSTRY: IF YOU BLINK... YOU MIGHT MISS IT !



**Regulations**

**Applications**

**more**

**Operators**

**Integration**

**Contracts**

**Missions**

**OEMs**

**Suppliers**

**Investment**

**\$144** Billion

**Market Opportunity by 2025**

**Main Source:** GLOBE NEWSWIRE

Note: This slide does not intend to show any existent joint venture, association, partnership, teaming agreement or other formal business relationship between the companies. It has been created for information purposes only.

# NEW UST-2012UAV

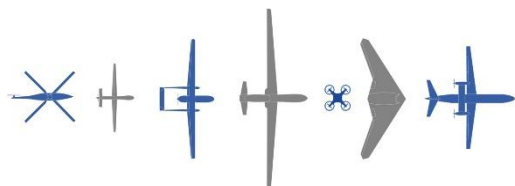


## ENGINE STARTER & BATTERY CHARGER



**ENERCRAFT** is pleased to announce the recent product release of its brand-new UST-2012UAV, which is the most compact Engine Starter + Battery Charger unit, specifically developed to be used in most types of UAVs!

With the UST-2012UAV, our Ultra-Starter family keeps on growing, and our Diversification Plan has definitely started!



### UST - 2012UAV

12 VDC - 20Ah@10h  
1500 Amp. Max Peak





**GROUND POWER UNITS**

# MORE TECHNOLOGY ON THE GROUND



GPU: Supplies clean energy for a long time, for aircraft maintenance purposes.

# OUR GPU Lite FAMILY



The GPU Lite family are devices developed by **ENERCRAFT** to allow energy supply for a long time, mainly for maintenance or operational purposes, working as a continuous service power source.

The GPU Lite family has been developed and tested by our technicians and engineers, to offer the latest technology in energy management and supply.



## GPU Lite VARIANTS

### GPU Lite 35

28VDC - 35 Amp

### GPU Lite 70

28VDC - 70 Amp

### GPU Lite 130

28VDC - 130 Amp

### GPU Lite 250

28VDC - 250 Amp

### GPU Lite 250R

28VDC - 250 Amp


### GPU Lite 500

28VDC - 500 Amp





# ULTRA – STARTER UNITS

A yellow Enercraft Ultra 28 Starter unit is positioned in the foreground on a tarmac. The unit is a rectangular box with a yellow lid and a blue and white front panel. It has a digital display, a red emergency stop button, and various cables connected to it. In the background, a white helicopter with blue accents is parked on the tarmac. The scene is set during the day with a clear sky and some buildings visible in the distance.

# THE STRENGTH OF YOUR START



Ultra-Starter: Initiates engines operation, providing clean energy.

# OUR ULTRA – STARTER FAMILY



ULTRA - STARTER is a device developed by **ENERCRAFT** to improve the engine start of UAVs, airplanes or helicopters, providing clean energy and a more efficient start, extending the life of the engine and being capable of operating in any weather and environmental condition.

The ULTRA - STARTER was developed by our technicians and engineers, to offer the latest technology in energy storage, combining the best of the Lithium batteries and the best of the Ultracapacitors.



## Ultra-Starter VARIANTS

### UST-2012UAV

12.0 VDC - 1500 Max Amp. / Peak  
GPU Mode = 7 Amps

### UST-2012LV

12.0 VDC - 750 Max Amp. / Peak  
GPU Mode = 7 Amps

### UST-2012

12.0 VDC - 1500 Max Amp. / Peak  
GPU Mode = 7 Amps

### UST-2030

28.5 VDC - 1500 Max Amp. / Peak  
GPU Mode = 10 Amps

### UST-4030

28.5 VDC - 2600 Max Amp. / Peak  
GPU Mode = 10 Amps





**INNOVATIVE DUAL SOLUTION**

# JOIN ENERCRAFT'S NO LIMITS MINDSET

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THE DUAL CONNECTOR ALLOWS YOU TO COMBINE:

- i. Ultra-Starter + GPU Lite
- ii. Ultra-Starter + Ultra-Starter
- iii. GPU Lite + GPU Lite

**Ultra-Starter:** Initiates engines operation, providing clean energy.

**GPU Lite:** Supplies clean energy for a long time.



# INNOVATIVE DUAL SOLUTION



**ENERCRAFT** is pleased to report the success of the final testing of a unique Dual Solution, combining the best of our Ultra-Starters and the best of our GPUs Lite.

## READY FOR ORDER!

- ✓ A unique dual connector (2 x 3 PIN NATO AN2551).
- ✓ Two separate and easily portable **ENERCRAFT** units.
- ✓ Use them together, or individually.
- ✓ Optimize you Ground Support Operations, minimizing costs.

### THE DUAL CONNECTOR ALLOWS YOU TO COMBINE:

- Ultra-Starter + GPU Lite
- Ultra-Starter + Ultra-Starter
- GPU Lite + GPU Lite

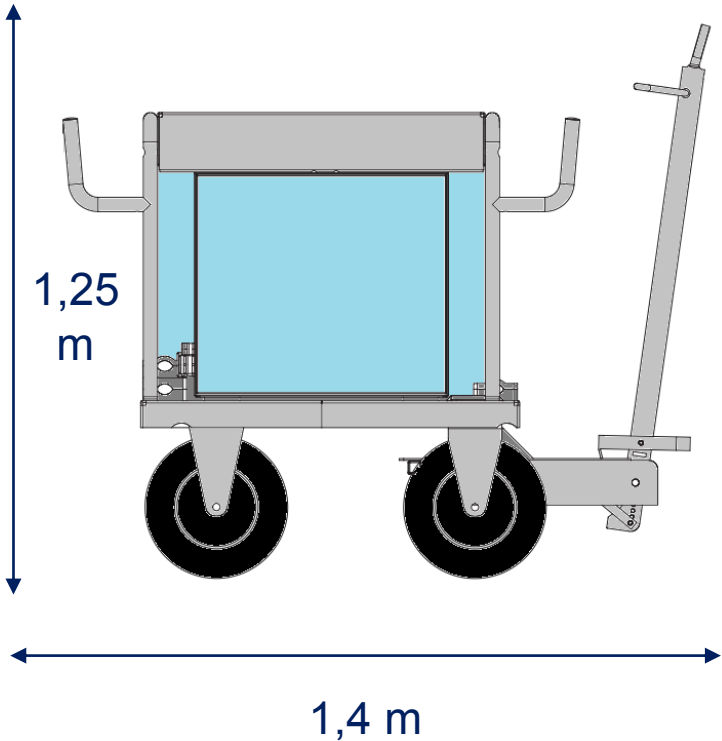
**Ultra-Starter:** Initiates engines operation, providing clean energy.

**GPU Lite:** Supplies clean energy for a long time.



# ENERCRAFT DUAL SOLUTION POSITIONING

## Competitor



CompeGtor	SpecificaGon	ENERCRAFT
400 - 600 Amps	<b>DC OUTPUT</b>	500 Amps
28V @2000 A	<b>Engine Start</b>	28V @2600 A
1	<b>Units</b>	2
<b>NO</b>	Can serve 2 aircraÃ	<b>YES</b>
<b>NO</b>	Portable on board	<b>YES</b>
<b>240 Kg</b>	<b>Weight</b>	25 + 17 = <b>42 Kg</b>

Additionally, **ENERCRAFT** solution is **30%** cheaper



⚡ **Ultra-Starter 40Ah UST-4030** + **GPU Lite 500A** 🔧



# GREEN AIRFIELD OPERATIONS!

## REAL & COMMON CASE

Aircraft: Embraer Phenom 300  
Engines: Pratt & Whitney PW535E

Picture date: October 2019



Diesel  
GSE\*

Towing  
Truck

\*GSE: Starter + GPU



LET'S  
GO  
GREEN



PAST

FUTURE



- ✓ Starter + GPU capabilities
- ✓ Clean Power
- ✓ Innovative Technology
- ✓ Fully Electrical
- ✓ 100% EMISSION FREE





**EXPANDING OUR PORTFOLIO  
FROM AVIATION TO A GLOBAL INDUSTRIAL FOOTPRINT**

**24 / 7  
GOAL ORIENTED  
INVENTIVENESS**



# MEET EMA, OUR *ENERGY MOBILE ASSISTANT*



**EMA** is an innovative energy storage equipment developed by **ENERCRAFT**, designed to provide its users with total autonomy and freedom, in order to accomplish any task that requires access to an energy source, regardless of their location.

**EMA** is a completely portable energy assistance equipment, and it was conceived with the purpose of offering a clean alternative to those obsolete generators that require fossil fuels for their operation, and which cause emissions, noise and odors.





# ENERGY MOBILE ASSISTANT - PORTFOLIO



**EMA 104**

1kWh - LiFeMnPO4  
400W Nom - 600W Peak



**EMA 110**

1kWh - LiFeMnPO4  
1000W Nom - 1500W Peak



**EMA 112**

1kWh - LiFeMnPO4  
1200W Nom - 1800W Peak

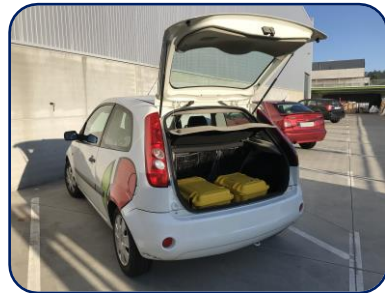
**LIGHT  
HANDY  
MULTITASK**

**FULLY  DEVELOPED**

**EMA**



# MAIN APPLICATIONS FOR EMA



## True Sine Wave



Ready to power  
any **DELICATE**  
equipment

EMA



## LET'S GO GREEN!

- ✓ MAINTENANCE | INSTALLATIONS
- ✓ CONSTRUCTION (tools & machines)
- ✓ ELECTROMEDICINE
- ✓ EMERGENCIES | BLACKOUTS
- ✓ CATERING (mobile catering appliances)
- ✓ PRO CLEANING
- ✓ EVENTS (light and sound equipment)
- ✓ FILM | MEDIA (cameras and lights)
- ✓ CAMPING | OUTDOOR ACTIVITIES
- ✓ SPORTS
- ✓ BOATS & YACHTS
- ✓ HOME (urban or rural)

... and many more

  
**ENERCRAFT**



**NO MORE**  
EXTENSION LEADS



**NO MORE**  
NOISE  
EMISSIONS  
ODORS

  
**ENERCRAFT**





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## OUR CONTRIBUTION TO THE LOCAL INDUSTRY

# ENERCRAFT – NEW FACILITIES IN GALICIA, SPAIN



**ENERCRAFT INNOVATIVE  
ELECTRIFICATION TECHNOLOGY, S.L.**

**NIF (SPAIN): B02707628**

**Registered Office**  
Cambados, Pontevedra

**Warehouse & Final Assembly Line**  
Parque Empresarial de Nantes  
Sanxenxo, Pontevedra





# ENERCRAFT

Innovative Electrification Technology S.L.

NORTH AMERICA & THE CARIBBEAN  
CONTACT:



AERO SUPPORT GROUP  
*honest dedicated service you can trust*

[clientcare@asgltd.ca](mailto:clientcare@asgltd.ca)

[www.asgltd.ca](http://www.asgltd.ca)