



“The Isle of Man’s Biosphere status reflects the fact that we are a special place for people and nature and recognises our vibrant **community**, valued **environment** and resilient **economy**. At the heart of the Biosphere is sustainability in all areas.”

- The Isle of Man Government



Andreas Renewable Energy Hub

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IPV Flexgen

- We have been developing and delivering renewable energy projects in the UK, Ireland and the Channel Islands since 2010.
- Our focus is on combining generation, storage and distribution solution to provide energy that is:
 - Secure
 - Clean
 - Affordable

Vital in areas where the grid is weak or constrained



WHY ANDREAS?



- Andreas Airfield, Burma Road

Available Development Land:

- 605 Acres Mixed Agri and Commercial

Site Planning Designation:

- Brownfield (Decommissioned WW2 Airfield)
- **Key Benefits**
- Potential for Commercial Development
- Access to Water Supply
- Good Transport Access
- Discrete Location
- Scope for Expansion



THE PROPOSAL



Islanded Grid Connection

Incoming Grid	5 MW
Export Capacity	10 – 20 MW

Micro Grid Generation and Ancillary Services

Anaerobic Digestion	6- 10MW
Ground Mounted Solar PV	30 MW
Wind Turbine	3 MW
Storage (Vanadium Flow/ Li-ion/ Hydrogen/ Compressed air)	10 MWh +
District Heating	TBC

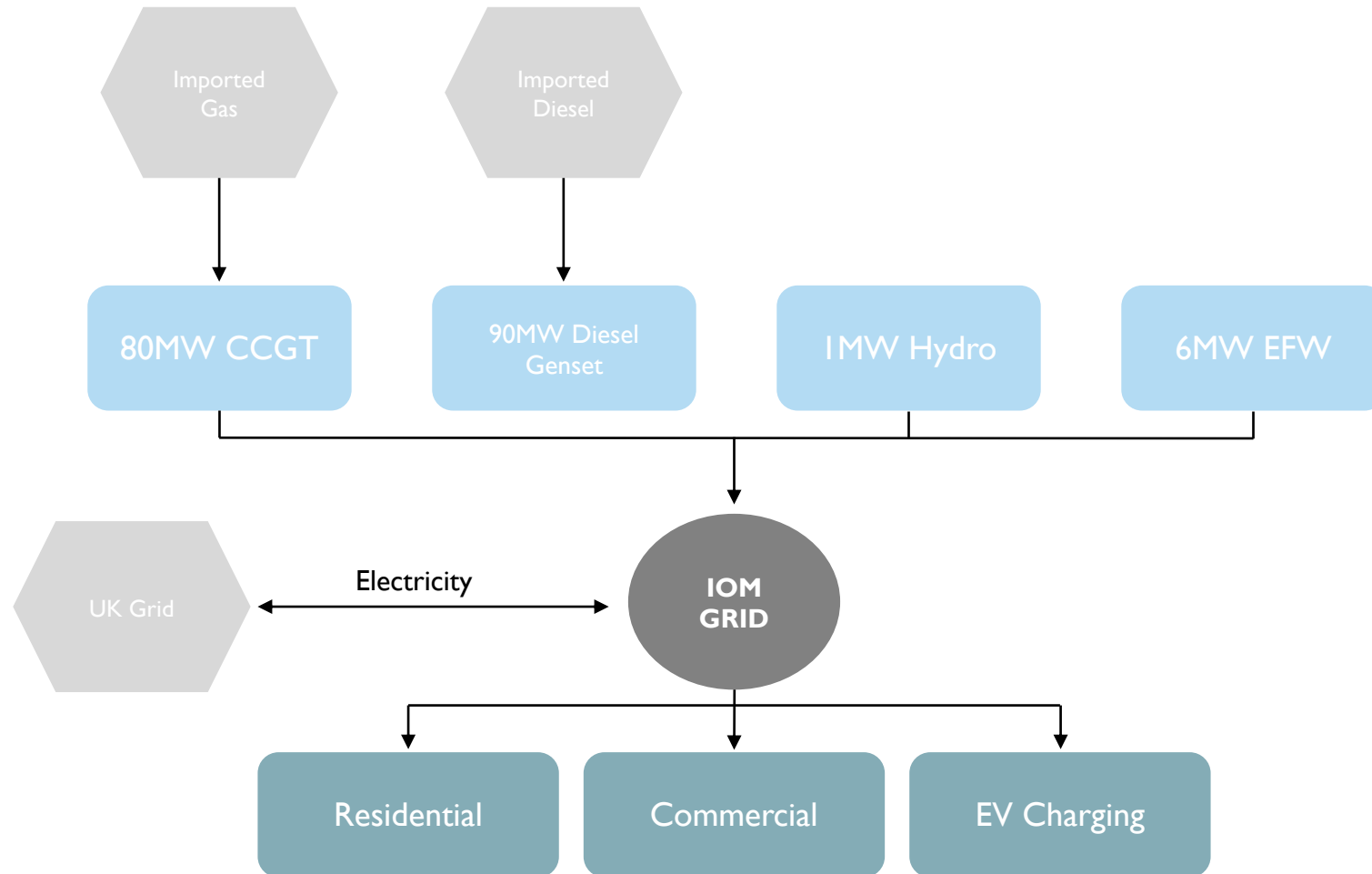


Connection agreement applied for in September 2023

HOW DOES IT WORK



The Isle of Man operates an 'Islanded' Micro Grid

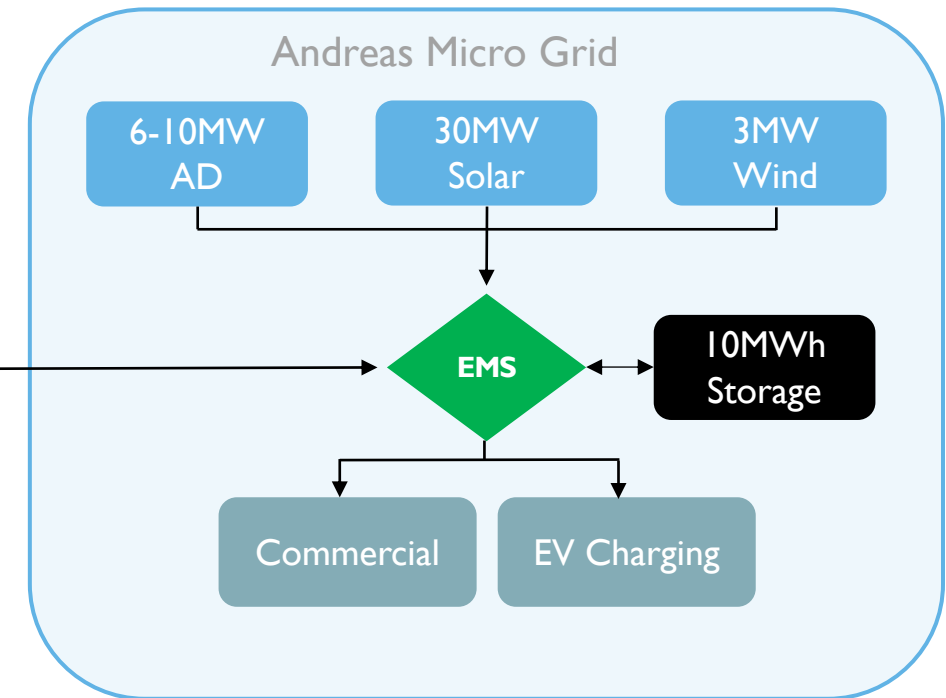
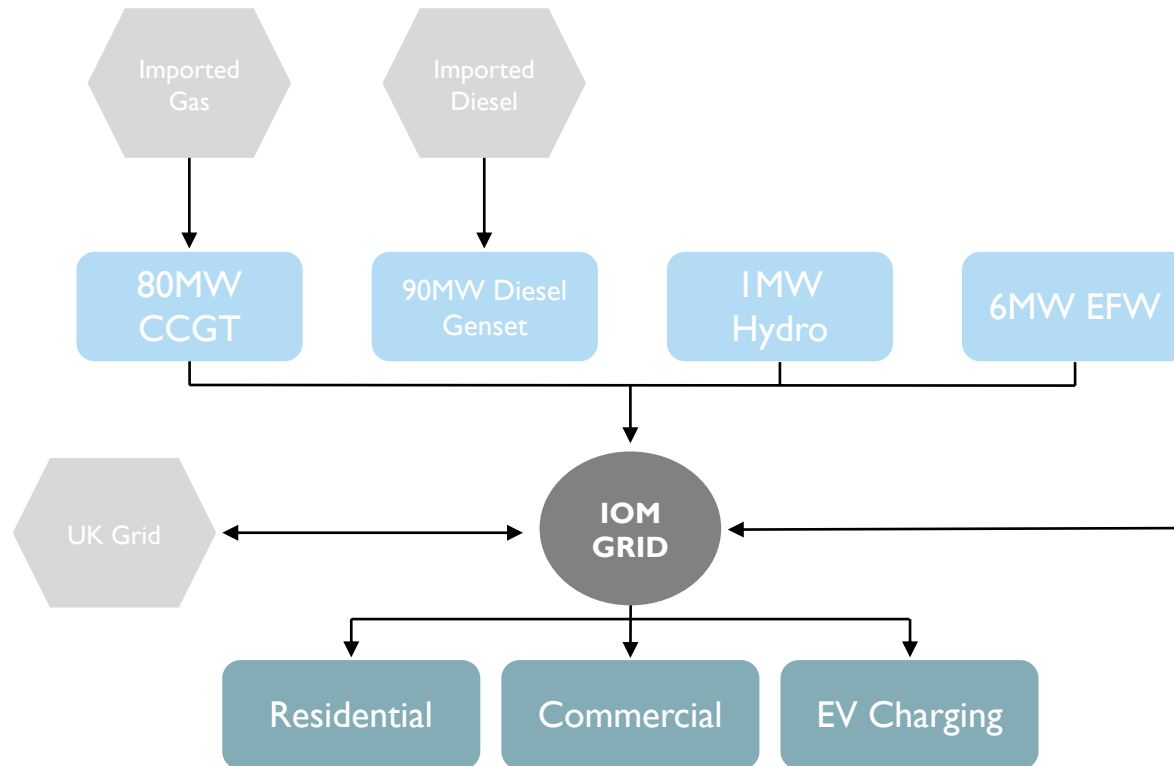




ANDREAS ENERGY HUB INTEGRATION

Operates as a micro grid to create a stable load that can be dispatched locally or back to the Utility Grid.
Supply is:

- Secure
- Clean
- Affordable



OPPORTUNITIES



1. POWER

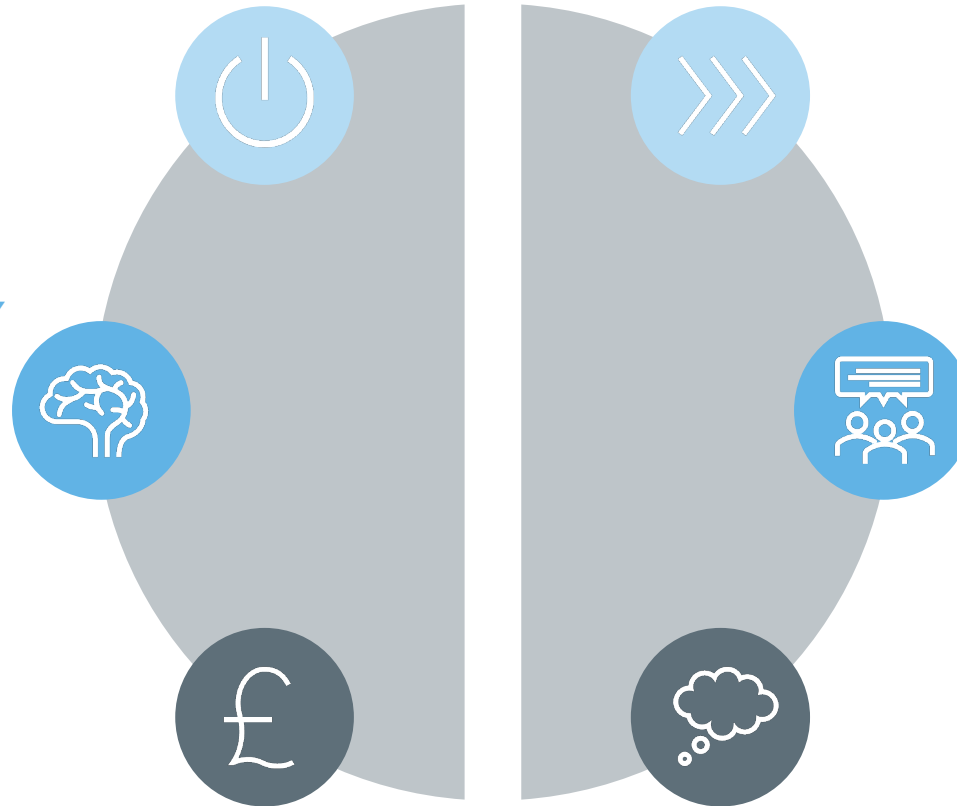
- Dispatchable Baseload =
Energy Security & Grid Stability
- Addresses Local Grid Constraints
- Identifiable source of Generation

2. DEVELOPMENT STRATEGY

- Scalable project
- Meet local Demand
- Support/Promote Inwards Investment
 - Bio-med
 - IT/ Data
 - Agritech

3. AFFORDABILITY

- Privately Financed = No Taxpayer Risk
- Reduce exposure to Global markets
- Blended Technology = LCoE



4. ECONOMIC ACCELERATOR

- Supports Agricultural Diversification
- Raises Tax Income (AD est' VAT income of £17.5/acre).
 - Creates stronger circular economy
- Platform for Innovation and investment

5. COMMUNITY

- Levelling Up
- Creates new Career Opportunities
- Energy Sovereignty Independence
- Inspirational – Next Generational

6. ENVIRONMENT

- Hit 2026 - 2030 climate targets
 - Area of low sensitivity
 - Sovereign Green Energy

YOUR SUPPORT



WHY DOES THE PROPOSAL DESERVE YOUR SUPPORT

1. Creates local opportunity in the green economy – Currently 20 IOM Farms engaged in the AD project alone
2. Creates new local and central tax revenue and a new green circular economy
3. Show cases IOM innovation and ability to support future tech investment
4. Complements and accelerates Government renewable energy ambitions
5. Adds resilience to the Island network and Contributes to Isle of Man energy Independence.
6. Uses local resources and local partners to generate local power
7. No investment, deployment or operational risk sits with the IOM Government or taxpayers
8. No development risk sits with the IOM Government
9. Balances out Proposed Government Investment in the South of the IOM

**THE ISLE OF MAN RECOGNISES
THAT THE MOST EFFECTIVE WAY
TO CREATE A SUCCESSFUL
BUSINESS ENVIRONMENT IS TO
ENGAGE WITH ITS
STAKEHOLDERS AND FORM
POSITIVE RELATIONSHIPS WITH
THE PRIVATE SECTOR**

Not Just Energy for Energy's sake

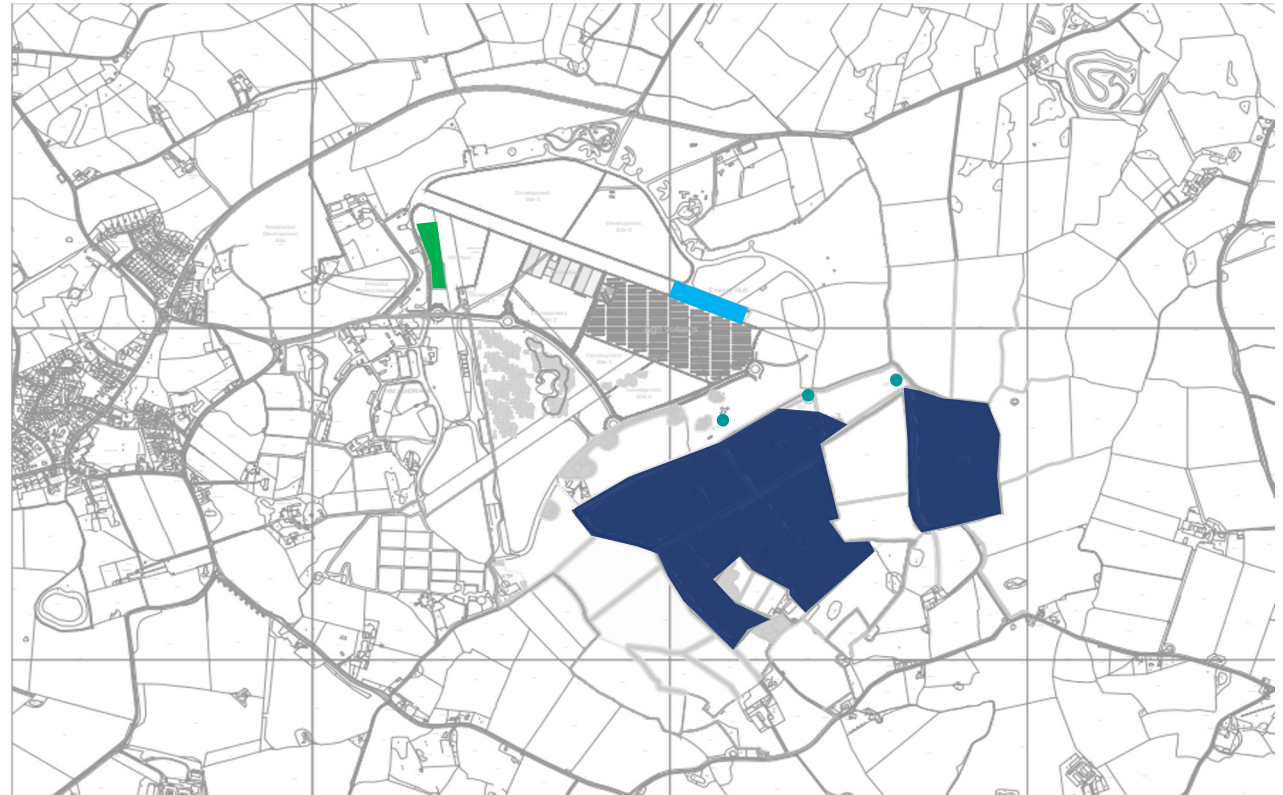
SUMMARY



SUMMARY

An islanded micro grid capable of providing up to 25% of the IOM base load electricity requirement

1. Complements DEFA 2023 renewable energy proposals
2. Supports IOM Government 2020 strategic growth plans
3. Supports objectives of the 2021 climate act
4. Supports the IOM Agricultural and rural economy
5. Provides Energy security and Grid Improvements
6. Creates employment opportunity and raises tax revenue
7. No financial risk to the Government or Taxpayer



THANK YOU
&
QUESTIONS



Andreas Renewable
Energy Hub

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DEPARTMENT FOR
ENTERPRISE 

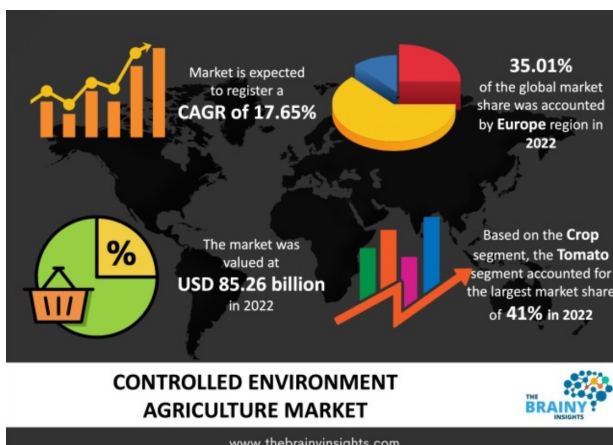




FUTURE OF FARMING



According to Verified Market Research, the agricultural robotics market was worth \$3.43 billion (£2.4 billion) in 2019. The same report states that it is rising at a CAGR (compound annual growth rate) of 34.5% and is set to reach \$36.86 billion (£26.82 billion) by 2027.



The Vanilla Market was valued at USD 2,275.60 Million in 2022. and is estimated to reach over USD 3,151.76 Million by 2030. and grow at a CAGR of 4.2% during the forecast period. Vanilla, the sweet and fragrant spice beloved by bakers and gourmands alike, boasts a surprisingly complex and dynamic market

Solar Developer Agrivoltaic Workshop
May 30 & 31, 2024
@ Jack's Solar Garden, 8102 N. 95th St, Longmont, CO

25 tickets available first come first served!
\$800 / person
Open to the public

THURSDAY
May 30th 8:30 AM - 4:30 PM
Tour - Presentations - Discussion
Coffee, breakfast, lunch provided

FRIDAY
May 31st 8:30 AM - 4:30 PM
Hands-on Experience - Discussion
Evening Happy Hour
Coffee, breakfast, lunch provided

The agenda will be sent to attendees closer to the workshop.

2 days of interactive presentations and hands-on activities at Jack's Solar Garden including:

DESIGN & DEVELOPMENT ACTIVITIES

RESEARCH ACTIVITIES

DAILY OPERATIONS & MANAGEMENT

COMMUNITY ENGAGEMENT

FUTURE AGRIVOLTAIC CONSIDERATIONS

AND SO MUCH MORE!

Buy your ticket here

email info@coagrivoltaic.org for more information

Agrivoltaic Development Workshop
August 15 & 16, 2024
@ Jack's Solar Garden, 8102 N. 95th St, Longmont, CO

25 tickets available first come first served!
\$800 / person

THURSDAY
Aug 15th 8:30 AM - 4:30 PM
Tour - Presentations - Discussion
Coffee, breakfast, lunch provided

FRIDAY
Aug 16th 8:30 AM - 4:30 PM
Hands-on Experience - Discussion
Evening Happy Hour
Coffee, breakfast, lunch provided

2 days of interactive presentations and hands-on activities at Jack's Solar Garden including:

DESIGN & DEVELOPMENT ACTIVITIES

RESEARCH ACTIVITIES

DAILY OPERATIONS & MANAGEMENT

COMMUNITY ENGAGEMENT

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The global agritourism market size was worth USD 45,395 million in 2021. It is estimated to reach an expected value of USD 141 billion by 2030, growing at a CAGR of 13.4% during the forecast period (2022–2030).