



Molecular Energies PLC

# MOLECULAR ENERGIES

INVESTOR PRESENTATION  
SEPTEMBER 2023





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# EXECUTIVE SUMMARY



## COMPANY OVERVIEW

An international energy company on the AIM market of the London Stock Exchange with both hydrocarbon and green alternative energy businesses



## PRESIDENT OIL AND GAS

Steady legacy income flows expected from H2 2024 arising from the sale of the Argentine business up to a value of US\$40 million with a high impact exploration well in Paraguay now drilling targeting 260 mmbbls of un-risked resources



## MOLECULAR AVIATION

Molecular is taking preliminary steps concerning industrial-scale production of SAF (sustainable aviation fuel) and e-fuel using its own experience and benefiting from its sister companies Atome Energy and Green House Capital



## GREEN HOUSE CAPITAL

Molecular owns 75% of Green House Capital, the founder, manager and promoter of alternative energy businesses to be spun out with IPO in Autumn 2023



## ATOME ENERGY

Molecular owns 20.5% of AIM listed ATOME Energy, the first LSE industrial scale producer of green fertilizer from green hydrogen, created by Molecular and spun out in 2021





# BOARD OF DIRECTORS

Expert, Experienced Management and Significant Shareholders



**PETER LEVINE**  
Chairman  
Ex Imperial Energy



**ROB SHEPHERD**  
Group Finance Director  
Ex Shell, ABN AMRO



**JORGE BONGIOVANNI**  
Non-Executive Director  
Ex IFC



**ALEX MOODY-STUART**  
Non-Executive Director  
Ex VP Schlumberger



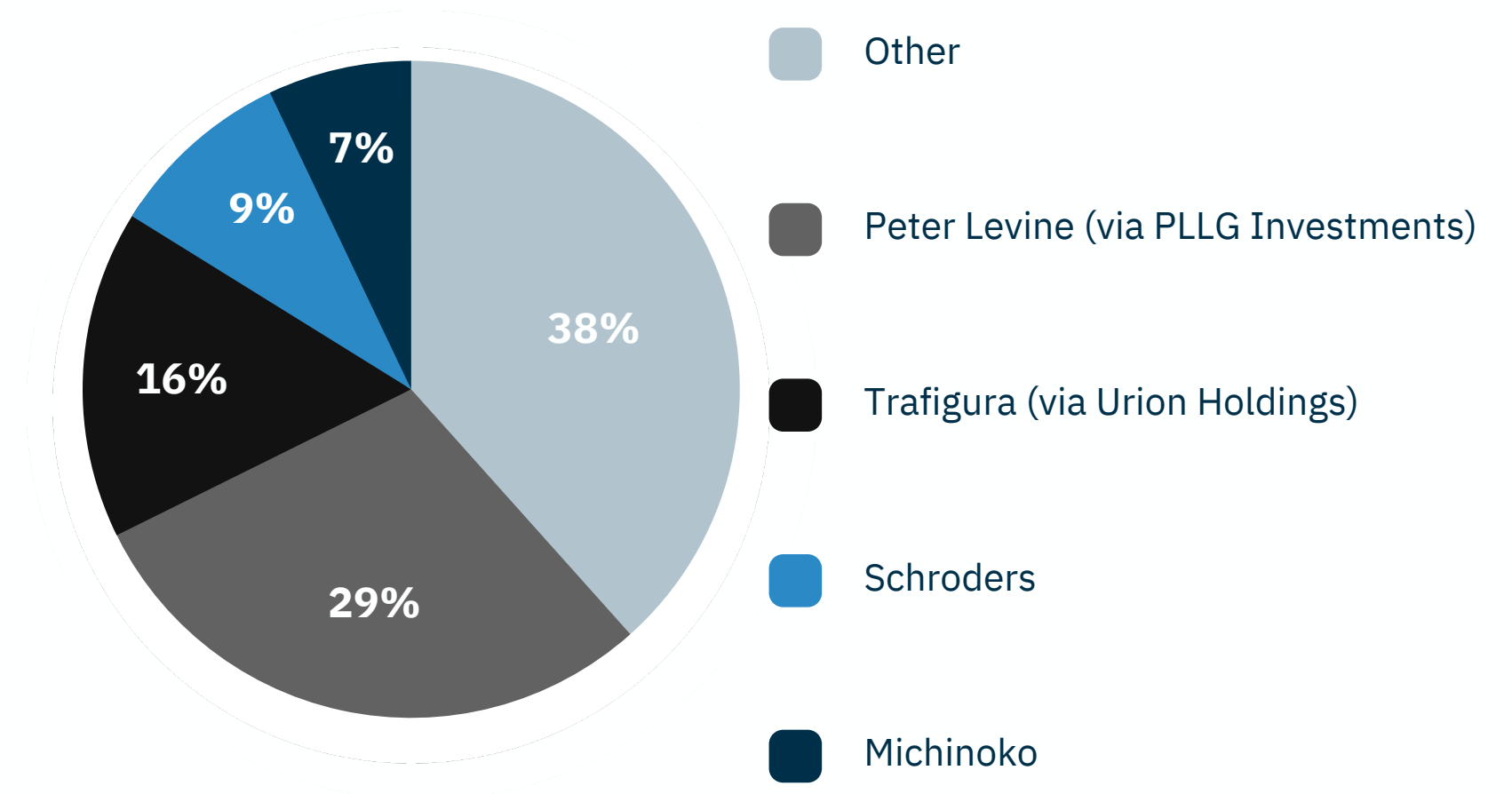
**FEDERICO GONZALES**  
Head of Paraguay  
Ex Minister of Interior  
& Interim Director of  
ITAIPU Paraguay



**EMILIO BUONGHERMINI**  
Operations Executive  
Former Vice Minister of Mines &  
Minerals in the Paraguay  
Government



**PABLO GUINDA**  
Head of Engineering  
First Class Masters in Mechanical  
Engineering from University of  
Aberdeen. Ex GE and Technip



SENIOR  
MANAGEMENT





# PRESIDENT OIL AND GAS: ARGENTINA

Revenue streams programmed to commence in 2024 from sale of President Argentina dependent on certain events and circumstances



## US\$2 million

Subject to Argentina carrying out normal and ordinary operations during the period, the Purchaser will pay Molecular 12 months post completion



## US\$13 million

The Purchaser will procure the repayment of the intercompany debt and interest owed by Argentina dependent on and subject to Argentine law, cash flow requirements and other events and circumstances



## US\$ Additional Consideration of Cash Flow Contribution

Subject to point 1 above, over a period of up to 5 years Molecular may receive a sum equivalent to 20% net free cash flow of Argentina each year dependent on and subject to certain events and circumstances



# PRESIDENT OIL AND GAS: PARAGUAY

The Operator and Joint Owner of High Impact Exploration

Exploration concession for the Pirity area, Chaco region of Paraguay

Jointly 50/50 with CPC, the Taiwanese State Energy Company, President operator

Budget cost circa US\$20 million, already covered by parties

Drilling commencing September 2023 with expected target depth of 3,800 meters to be reached first half of November 2023

Targeting 260 mmbbls of un-risked resources

Drilling on 3D Seismic acquired by President Oil & Gas in 2013

Exploration license to September 2024 gives ample time to drill and evaluate





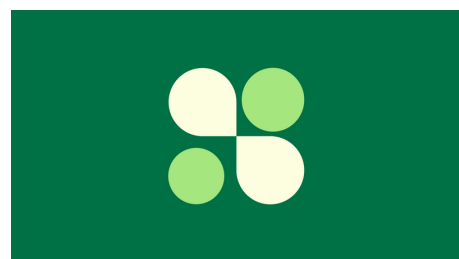


# MOLECULAR AVIATION

## Potential Major Industrial Scale E-Fuel Project

- Sustainable aviation fuel ("SAF") being synthetic kerosene is the most impactful initiative in the hard to abate aviation industry (McKinsey 2023)
- Many of the world's leading airlines have committed to using SAF for 10 – 30% of their total jet fuel used by 2030 but the present cost for existing production methods is high (McKinsey 2023)
- Successful green SAF requires
  - Reliable supply of carbon feedstock
  - Low cost 24/7 baseload green power to drive electrolyzers
  - Tech to marry the two to create SAF
- Molecular, using its own and its sister companies resources, experience, contacts and geographical placement finds itself in a most favourable position with access to feedstock, know-how and offtake markets to plan a major, industrial scale SAF production facility.
- AECOM, the leading international engineering consultancy (see page 10) as Owner's Engineer is commencing working with Molecular on an initial feasibility study with several NDAs already in place with potential stake holders.
- Further announcements are expected to be made later this year as work progresses





# ATOME ENERGY PLC

Industrial Scale Production of Green Hydrogen, Ammonia and Fertiliser

- The first and currently only green fertiliser from green hydrogen production company on the London Stock Exchange
- A global leader in its field and supplier of the world first green premium fertiliser in 2025, with operations in Paraguay, Costa Rica and Iceland
- ATOME, formed as a £2 company spun out from Molecular at the end of 2021
- Prior to the IPO Molecular declared a dividend in specie to its shareholders by way of shares in Atome equivalent to a 20% dividend
- Molecular holds 20.5% of ATOME, held in its books at zero value after selling 800k shares for £1 each demonstrating true realisation of value created
- Atome shares a common Chairman and significant shareholder with Molecular







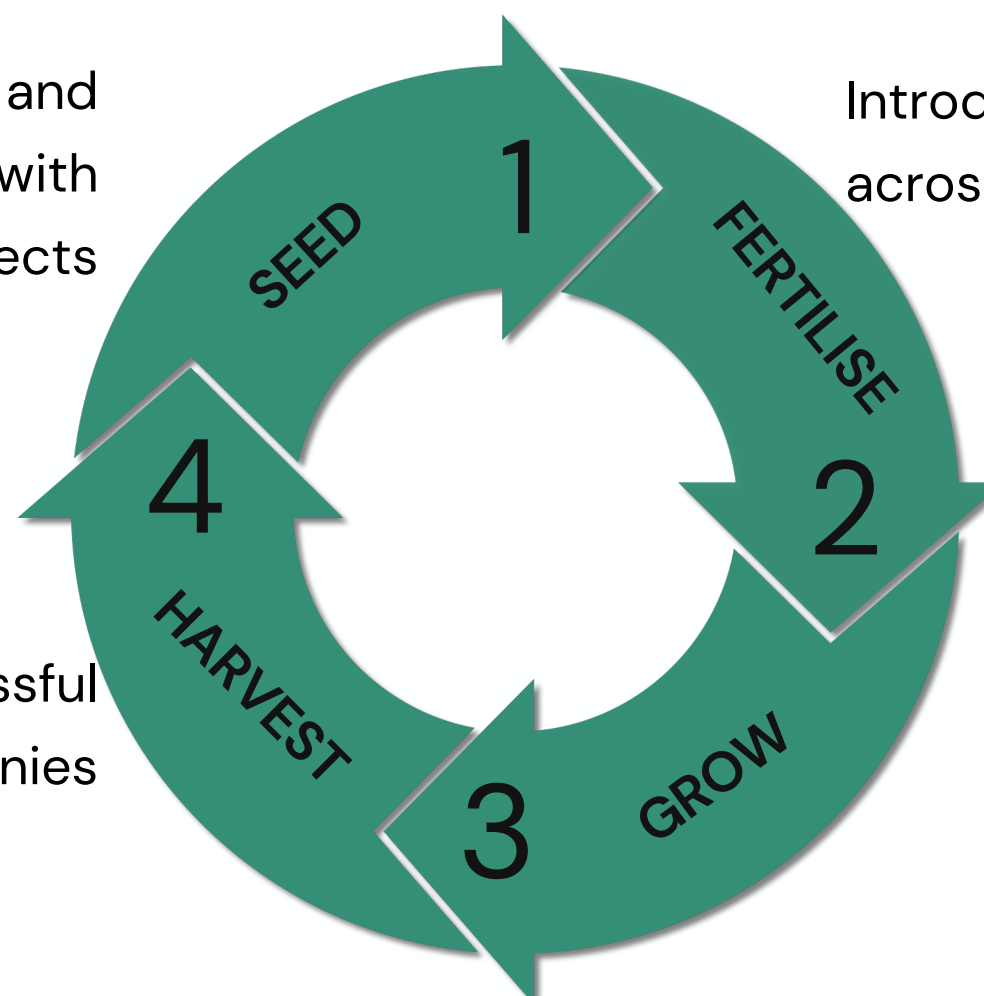
# GREEN HOUSE CAPITAL

Green House Capital (“GHC”) is the owner, incubator and operator of a growing group of green-related, prospective, and near-term income generating companies

- Intending to come to AIM October 2023 as a spin out from Molecular Energies PLC (“MEN”)
- Following the footsteps of the successful spin out and IPO of Atome Energy (“ATOME”)
- Application made for for EIS and VCT tax relief schemes
- Planning an institutional and family office placing through Cavendish Capital Markets (the merged firm of Cenkos and finnCap)
- Supported by leading shareholders in the Company and Molecular Energies PLC
- On IPO, Primary BID lined up to give wider investor access

## The Green House Model

Using expertise and capital GHC identifies and finances highly prospective, green businesses with significant growth prospects



Introductions, expertise, finance and support from across GHC companies, ATOME and MEN

The group sees the rewards of successful trading companies

Companies become stand-alone entities with their own management and funding model





## GREEN HOUSE GROUP COMPANIES



Retrofits existing diesel trucks and barges to run on a blend of hydrogen and diesel, reducing emissions

[www.dualfuellimited.com](http://www.dualfuellimited.com)  
[info@dualfuellimited.com](mailto:info@dualfuellimited.com)



Owns & operates electrolyzers and refuellers which produce green hydrogen and oxygen for transport & other industrial applications, including synthetic fuels

[www.gmobilitylimited.com](http://www.gmobilitylimited.com)  
[info@gmobilitylimited.com](mailto:info@gmobilitylimited.com)



Exploring the lithium and solar potential in South America using the management and engineering expertise of Molecular's former hydrocarbon division in Argentina



International originator, developer & direct marketing of quality carbon offsets & removals to medium-sized businesses

[www.aton6.com](http://www.aton6.com)  
[info@aton6.com](mailto:info@aton6.com)



The generator of early stage GHC opportunities in the waste to energy sector where there is security of both feedstock and off-take

[www.hysolimited.com](http://www.hysolimited.com)  
[info@hysolimited.com](mailto:info@hysolimited.com)



A web-based development app to be an educational and financial management product for under 18s

## GREEN HOUSE GROUP STRATEGIC PARTNERS



**Owner's Engineer to the Group**  
Global Fortune-500 engineering consultancy with US\$13.1 billion of revenue in 2022



**Provides DFL with dual fuel hardware & software**

A UK based leader in dual fuel engine technology



**Provides regional expertise and contacts**  
An international energy company on the London Stock Exchange



**Provides Aton 6 with carbon credit origination, trading and sales support**  
Global financial services firm, with 30 international offices and experience in carbon credit origination and trading



**Provides investment expertise in the Americas**

A Paraguayan innovation fund with South American investment know-how and footprint



**Provides green hydrogen expertise and supply with project finance support**  
The first green hydrogen, ammonia and fertilizer production company on the London Stock Exchange



# MOLECULAR ENERGIES PLC

## Project Newsflow (Excluding Molecular Aviation)





# Thank You

## Contact Us



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