# ENERGY

# "Investor Update - Focussed on Review of Welchau-1 Well Results"

# An ASX listed European Energy Producer and Explorer

"Reliable energy doesn't need to cost the earth"

Investor Update | 15 April 2024 | Welchau Data Review

ASX:ADX

#### **Disclaimer Statement**



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Pursuant to the requirements of the ASX Listing Rule 5.41 the technical and Prospective Resources information relating to Austria and Italy contained in this presentation has been reviewed by Paul Fink as part of the due diligence process on behalf of ADX. Mr. Fink is Technical Director of ADX Energy Ltd is a qualified geophysicist with 30 years of technical, commercial and management experience in exploration for, appraisal and development of oil and gas resources. Mr. Fink is a member of the EAGE (European Association of Geoscientists & Engineers) and FIDIC (Federation of Consulting Engineers).

Independent audit of developed reserves have been completed for ADX' Zistersdorf and Gaiselberg fields ("Fields") in the Vienna basin and Anshof in Upper Austria (Austria) by RISC Advisory Pty Ltd ("RISC"). RISC conducted an independent audit of ADX' Fields evaluations, including production forecasts, cost estimates and project economics. Production from existing wells is classified as Developed Producing. Production from planned recompletion of existing wells to new intervals is classified as Developed Non-Producing. RISC is an independent advisory firm offering the highest level of technical and commercial advice to a broad range of clients in the energy industries worldwide. RISC has offices in London, Perth, Brisbane and South-East Asia and has completed assignments in more than 90 countries for over 500 clients and has grown to become an international energy advisor of choice.

#### PRMS Reserves Classifications used in this presentation:

Developed Reserves are quantities expected to be recovered from existing wells and facilities. Developed Producing Reserves are expected to be recovered from completion intervals that are open and producing at the time of the estimate. Developed Non-Producing Reserves include shut-in and behind-pipe reserves with minor costs to access. Undeveloped Reserves are quantities expected to be recovered through future significant investments.

A. **Proved Reserves** (1P) are those quantities of Petroleum that by analysis of geoscience and engineering data, can be estimated with reasonable certainty to be commercially recoverable from known reservoirs and under defined technical and commercial conditions. If deterministic methods are used, the term "reasonable certainty" is intended to express a high degree of confidence that the quantities will be recovered. If probabilistic methods are used, there should be at least a 90% probability that the quantities actually recovered will be equal or exceed the estimate.

B. **Probable Reserves** are those additional Reserves which analysis of geoscience and engineering data indicate are less likely to be recovered than Possible Reserves. It is equally likely that actual remaining quantities recovered will be greater than or less than the sum of the estimated Proved plus Probable Reserves (2P). In this context, when probabilistic methods are used, there should be at least a 50% probability that the actual quantities recovered will equal or exceed the 2P estimate.

C. **Possible Reserves** are those additional Reserves that analysis of geoscience and engineering data suggest are less likely to be recoverable that Probable Reserves. The total quantities ultimately recovered from the project have a low probability to exceed the sum of Proved plus Probable plus Possible (3P) Reserves, which is equivalent to the high-estimate scenario. When probabilistic methods are used, there should be at least a 10% probability that the actual quantities recovered will equal or exceed the 3P estimate. Possible Reserves that are located outside the 2P area (not upside quantities to the 2P scenario) may exist only when the commercial and technical maturity criteria have been met (that incorporate the Possible Reserves must reference a commercial 2P project.

#### Prospective Resource Classifications used in this presentation:

Prospective Resources are those estimated quantities of petroleum that may potentially be recovered by the application of a future development project(s) related to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further explorations appraisal and evaluation is required to determine the existence of a significant quantity of potentially moveable hydrocarbons.

P(90) Estimate: means at least a 90% probability that the quantities actually recovered will equal or exceed the estimate. P(50) Estimate: means At least a 50% probability that the quantities actually recovered will equal or exceed the estimate. P(10) Estimate: means At least a 10% probability that the quantities actually recovered will equal or exceed the estimate.

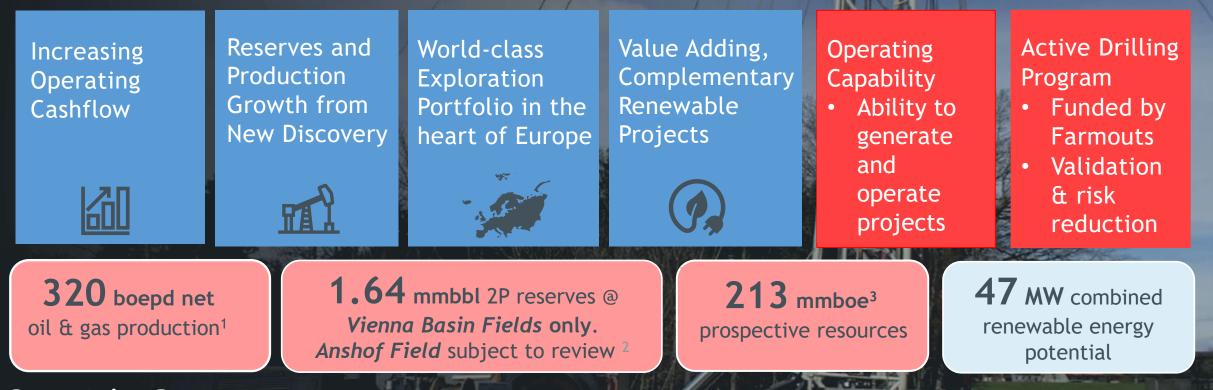
#### **Oil and Gas Conversions**

BOE means barrels of oil equivalent. Bcfe means billion of cubic feet of gas equivalent. Gas to oil conversion used in this presentation: 6 mcf of gas = 1 barrel of oil. Mcf means thousand cubic feet of gas

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## Investment Proposition and Operating Strategy



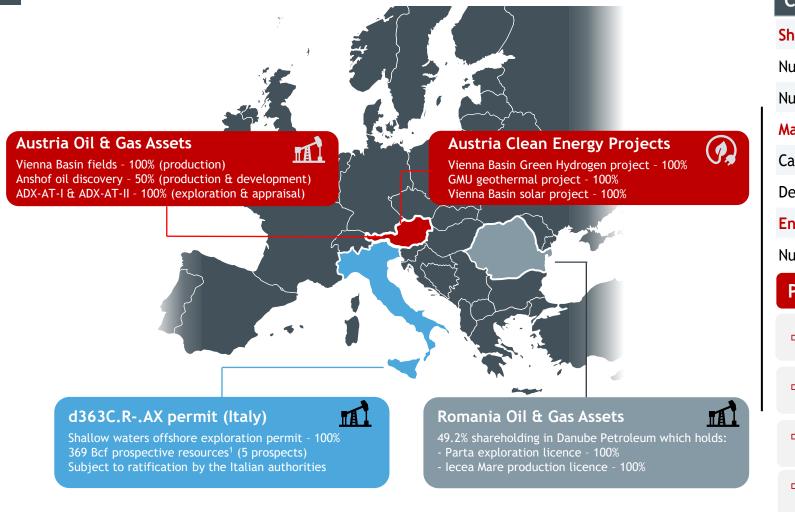


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<sup>1</sup> April 2023 average production from the Zistersdorf & Gaiselberg fields and Anshof field. <sup>2</sup> ref. Reserves Reporting Date & Valuation (Independently Audited) 04.11.2021 less production to 31 December 2023, <sup>3</sup> Best technical prospective resources for Upper Austria only. Prospective resources reporting date update 22.06.2023

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#### **Corporate and Asset Summary** *Positioned for a smarter, cleaner future for Europe*



# Refer to Cautionary Statement in relation to **Prospective Resources** on Page 3 of this presentation

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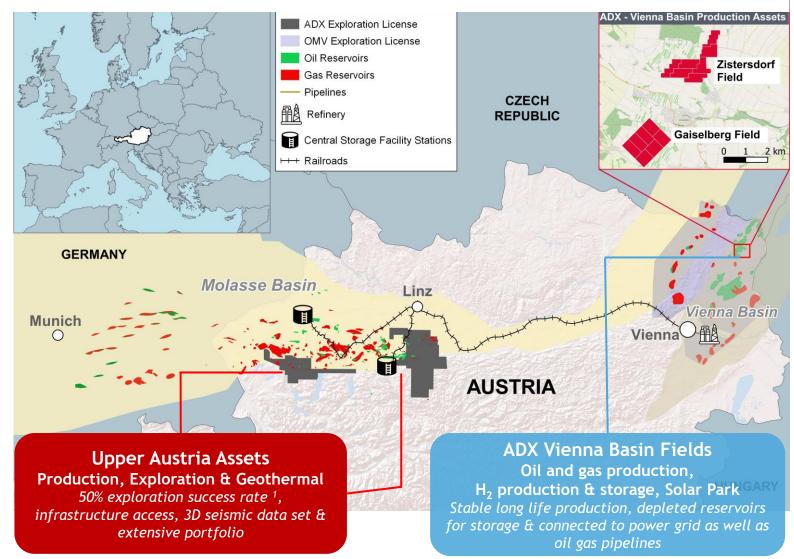
#### **Capital Structure** Share price as at 11.04.2024 A\$ 0.12 Number of shares 438.8 m Number of options 64.3 m A\$ 52.7 m Market capitalisation Cash (unrestricted) as at 31.03.2024 - estimated A\$ 7.0 m Debt (net of restricted cash for debt) A\$ 1.9 m A\$ 47.5 m **Enterprise value** Number of shareholders 2,135

#### Political & Strategic Position

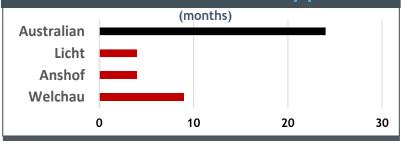
⇒ Stable jurisdictions with unmet energy demand

- ➡ Excellent access to infrastructure
- ⇒ Strong focus on energy security since Ukraine war
- ➡ Operatorship capability & boots on the ground

## Our focus is on Austria Ideal place to build a diversified energy business



#### Permits & Environment Approvals



A significant oil and gas industry **1 billion bbl oil & 2.7 Tcf gas** produced to-date

75-Year oil & gas duopoly before ADX became the third operator in country

Energy Demand is unmet by local supply resulting in High Value Markets

Excellent Infrastructure that is highly accessible and Favourable Regulatory Processes

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<sup>1</sup> In Upper Austria since 2000 -11 discoveries out of 22 wells

## 2024 Near term activities

Period of high activity focussed on Welchau resource definition, increasing cash flow and reserves growth

Welchau gas Testing & Appraisal Large resource potential definition

- Ongoing well data analysis and resource potential update
- *Q4 2024* Testing and well potential deepening
- Technical and commercial definition
- Permitting for follow up appraisal well for drilling in Q1 2025

## Anshof oil field

Appraisal & Development Cash flow growth

- April 2024 Commission 3000 BOPD capacity permanent oil facility
- Recommence oil production at ANS-3
- Q3 2024
   Drill ANS-2 ST1
   Appraisal well
- Drill ANS-3 Appraisal well
- Funding from MND transaction

#### Upper Austria Gas Exploration Low risk, adjacent to infrastructure

- **Q4 2024** Drill Further Gas Exploration Well
- Proximal to infrastructure
- Funding from MND transaction
- Further portfolio development & farmout opportunities

#### Anshof field Near field oil follow ups Production tie-in opportunities

- Multiple high value oil targets
- Tie into Anshof permanent facility
- High value reserves and cash flow growth
- Held at 100% equity

# Vienna Basin Production Assets

Stable, high value production with long term potential

## Vienna Basin Fields (100% interest)

- Low emission, low decline production delivering long term cash flow (approx. 250 boepd)
- Ownership of 13.7 hectares of land suitable for Solar Park - 65 Km from Vienna
- High value sweet crude oil, very favourable fiscal terms (no royalties)



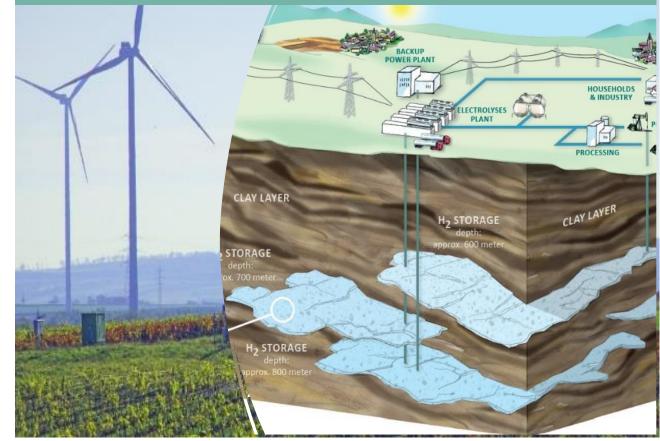
Multilayer field suitable for H<sub>2</sub> storage 1.64 mmbbl 2P developed reserves <sup>Note 1</sup>

Pipeline to Vienna refinery & gas pipeline



## A long-term future for Vienna Basin Fields

- A unique position own the land + storage reservoirs + green power + connected to pipelines + availability of fresh water
- Addition of Solar Park, Hydrogen generation and Hydrogen Storage for planned hydrogen back bone



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Note 1: Reserves Reporting Date & Valuation (Independently Audited) 04.11.2021 less production to 31 December 2023

## Anshof appraisal and development

#### Anshof-3 discovery well production

- Long term test production from Oct 2022 to Sep 2023 reaching regulatory limit (36,000 barrels) using production constrained interim facility
- Stable water free production average 115 bopd and peaked at 140 bpd with no pressure decline
- High quality crude oil (Brent equivalent) transported by truck to rail head and by rail to the Vienna refinery

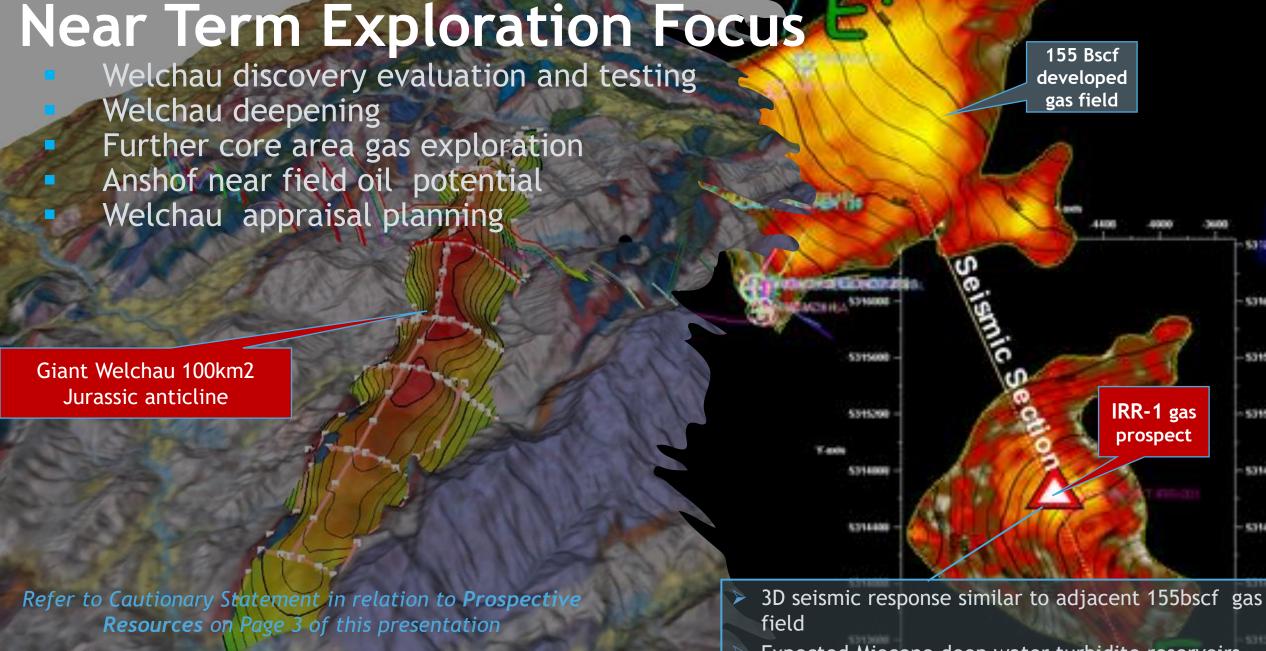
#### Permanent facility Installation and recommencement of production

- 3000 bopd permanent production unit, storage and offloading tanks and gas fired power generation has been installed and commissioned
- Production recommenced on 3<sup>rd</sup> of April at approx. 134 bopd





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Expected Miocene deep water turbidite reservoirs with flow of up to 45 mmscf/day

67% U

531600

531568

\$31528

531400

\$3164



# **Exploration Activity in Upper Austria**

High impact, drill ready portfolio in the heart of Europe



Welchau gas discovery to be tested in Q4 2024. Large resource potential to be appraised



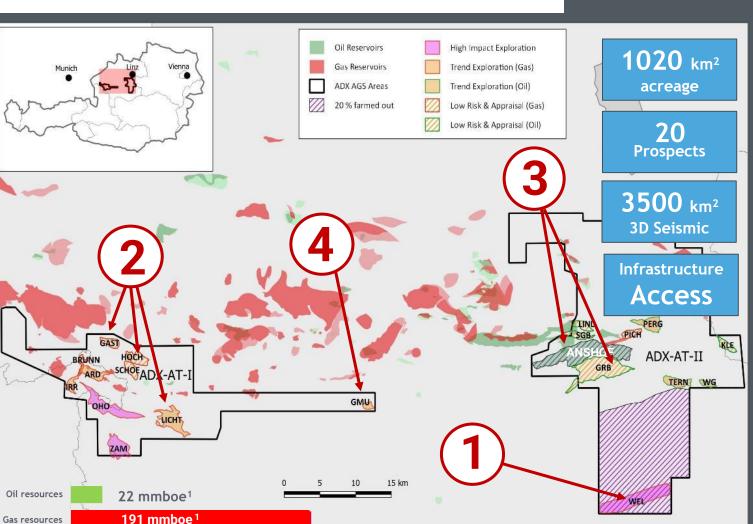
High Impact Gas Prospects & High Value Shallow gas play identified with state of the art AI seismic processing



Anshof field appraisal & Near field oil prospects low risk follow up provide rapid pathway to further cash flow



**18 MW Geothermal** low risk, long term potential with shallow oil and gas targets provides new opportunity



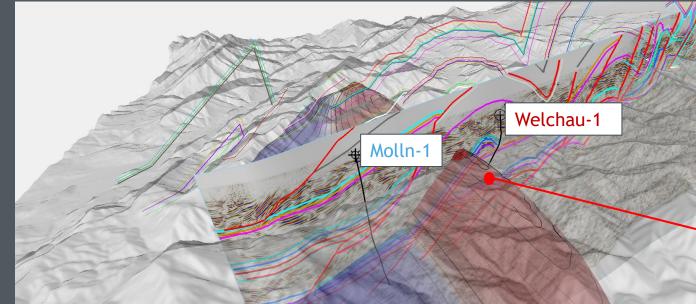
Refer to Cautionary Statement in relation to **Prospective Resources** on Page 3 of this presentation.

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<sup>1</sup> Best Technical Prospective Resources Prospective resources reporting date update 22.06.2023

#### Welchau Gas Liquids Discovery Overview of potential

"A potentially transformational resource in the heart of Europe. Our confidence in Welchau's potential remains undiminished. The evaluation and testing of Welchau is a core focus and value driver for ADX"



ADX predrill estimate best technical **Prospective Resources of 807 BCFE** (134 MMBOE)<sup>1</sup>. Welchau targeted the same reservoirs (*Steinalm Formation*) as the nearby Molln-1 well which tested condensate rich, pipeline quality gas at rate of 4.0 MMSCFPD in 1989

Refer to Cautionary Statement in relation to Prospective Resources on Page 3 of this presentation

Investor Presentation - 15 April 2024 <sup>1</sup> Best Technical Prospective Resources Prospective Resources reporting date 22.06.2023

				ENERG	<b>Y</b>	
a			: WELCHAU WEL-001	J 1	Permit: ADX- Joint Venture ADX: 75% MCF Energy Drilling Cont	•: Ltd.: 25%
E: 77568.3 N: 530100 Elevation		Main Target: Middle Triassic Steinalm F Depth: 1452 m MD / 1371 m TVD Additional Target(s): Total Depth: 1733 m MD / 1618 m TVD 1733.3 m MD / 1618.2 m Analogue Well(s): MOLLN 1 (OMV)	) (drilling depth)			
Depth [m MD]	Stratigraphy (updated with OH logs)	Well Scheme, Lithology, HC s Casing & Cementation	hows	Formation Evaluation	Bits & Mud System	Directional
0 	Formation Top Depth Duatemary Hauptdolomit 20 m 30 m Opponitz Fm.		20 m: 20" Conductor 6 m: 8" BTC Surface ng (68# J55)		17 1/2" hole: TCl FW gel (1.03 - 1.12 kg/l)	
	Lunz Fm. 895 m	12 Ch	1/4" hole: ass G 1.9 kg/l	12 1/4" OH Logging (930 - 125 m): 1. MCG-CXD-CMI	12 1/4" hole: PDC. NaCl-Polymer Mud 1.06 - 1.12 kg/l	KOP @ 556 m Az. 178° DLS 3°/30 m EOB @ 779 m Incl. 19°
1000 1100 1200	SEAL					KOP2 @ 909 m Az. 183° DLS 4°/30 m EOB @ 1022 m Incl. 30°
- 1100 - 1100 	E B S	1) distingt as peaks (up to 5.22%) 2) liquid IC shows (cuttings) direct & cut fluorescence 3) core: liquid IC in mud 4 MOT samele (H33 17 m):	' hole: ; G 1.5 kg/l Lead	<b>—</b> 1 core (1511.6-1518.33 m)	8 1/2" hole: PDC NaCl-Polymer Mud up to 1.45 kg/l	
— 160 — 1700 — 1800	Gutenstein Fm. <sup>66</sup> 1570 m Refinenzhall Fm. 1681 m Weit TD (17.03.2003) Weit TD (17.03.2003) T733.3 m MD / 1618.2 m TVD (LD)	1732 m	1: N80Q VAS	8 1/2" OH Logging (1733 - 930 m): 1. MCG-CXD-CMI 2. MCG-MPD-MND-MDL-MMR 3. MCG-GSI 4. SGR 5. SBT 6. MDT dual packer formation pressure + fluid samples		Start of Drop @1604 m Az. 185° DLS 3°/30 m TD @ 1733 m TVD 1618 m Incl. 24.4°, Az. 185.6°
		Gravel, partly cemented  Gravel, partly cemented  Gravel, hin-bedded Limestone/Dolomite + Rauwacl + Cryssm & Antypetin  Sitistone, Sand- and Claystone  Light grav, massive/bedded Limestone  Grav, graded or fine-bedded allodapic Limestone  Grav, massive/Bedded Limestone  + Chert and Maristone  Light grav, massive/Bhick-bedded Limestone  Dark gravy, bhin-bedded, bluminous Limestone  Dark gravy Dolomite Oclomite Breccia)  + Athypetin & Imedrece	ke	CMI MPD MNU MMI GSI SGR SGR SBT	Compact Gamma Ray Compact Dipole Sonic Compact Micro Imager Compact Photo Density Compact Dual Neutron Compact Dual Neutron Compact Dual Neutron Compact Micro Lateroli Geochemical Spectrosco Spectral Gamma Ray Sector Bond Log Modular Formation Dyn	bg 9g

+ Anhydrite & Limestone Shale calcareous, Clav- and Maristo **a0** 

#### Welchau Gas Liquids Discovery Results to date and next steps

#### Key findings from drilling phase

- 450m of hydrocarbons shows in a giant 100 km2 structure (*refer Well Data Review*)
- Structural interpretation on prognosis
- Confirmed good trap seal quality which was a major predrill risk
- Confirmed hydrocarbon column of condensate rich gas and potential liquids
- Produceable hydrocarbons indicated from down hole sampling and well inflow
- Recovered core, drilling results and preliminary log evaluation indicates storage and flow potential
- Well drilled successfully approx. 30% below budget
- Still over 1000m of exploration potential below current well TD

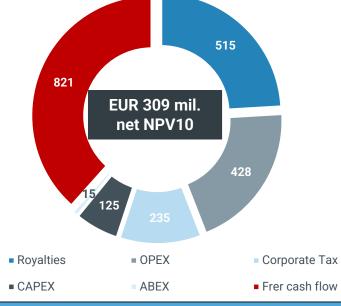
Ticked all the boxes of a technical discovery - *P*(*success*) from 20% to 100%



12

## Welchau Gas Liquids Discovery Indicative economics and profitability benchmarking





Economics derived from Gaffney Cline & Associates' 1U case (332 Bcf gross gas resources) excludes any contribution from high value liquids (45° API) generate a NPV10 (ADX' share) representing **10(x) ADX' market capitalisation**<sup>1</sup>

#### **Compelling potential**

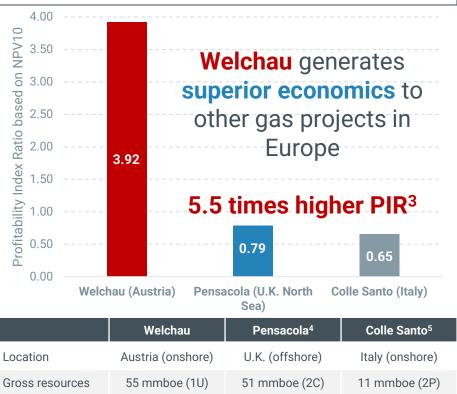
- Large gas and liquid resource potential at an onshore location in premium energy market
- Excellent availability of infrastructure for gas (18 kms) and liquids (40 Kms)
- Shallow and relatively cheap drilling costs
- Relatively short development time frames especially in the case of liquids
- Excellent demand and pricing for gas (Dutch TTF) & liquids (Brent)
- Deeper exploration potential in Welchau well
- Play opening discovery with multiple follow up targets

Refer to Cautionary Statement in relation to Prospective Resources on Page 3 of this presentation

Gross CAPEX

Gross NPV10

#### Welchau Profitability Index Ratio<sup>2</sup> vs other gas projects in Europe



USD 177 mil.

USD 694 mil.

US\$ 884 mil.

US\$ 663 mil.

US\$ 95 mil.

US\$ 62 mil.

<sup>1</sup> As at 12 April 2024. <sup>2</sup> Profitability Index (or PIR) calculated as project NPV10 divided by project CAPEX. <sup>3</sup> PIR based on NPV10 at EUR 40 per MWh or equivalent. <sup>4</sup> Source: Deltic Energy Plc. <sup>5</sup> Source: Reabold Resources Plc

# Welchau's potential is of national significance

Austria's gas supplies remain highly vulnerable & Russia dependent

"Our dependence on Russian natural gas threatens the prosperity, security and future of our country. Our goal is to get out of Russian natural gas. As a sovereign country, we cannot simply accept that the share of Russian gas increases instead of decreases. That is why we will now present the next measures," says Climate Protection and Energy Minister Leonore Gewessler.

#### Supply and Demand Summary

- Austria imports 87% of its gas requirements
- There is a high dependence on Russian gas
  - 65% of imported gas during 2023
  - Other sources mostly LNG and Norwegian gas
  - In December 2023 98% of imported gas came from Russia
- Insufficient alternative sources of gas imports
- The majority of gas imports coming though Ukraine making Austria highly vulnerable - gas transfer contract expires in October 2024
- Desperate need for alternatives to meet energy demand and meet EU obligations to diversify

#### Russian Imports as a Percentage of Total

- Russian imports as a percentage of total
- Other imports as a percentage of total
- -- Referenz: Russische Importmenge zu Kriegsbeginn im Februar 2022

6/2022 -       63 %       37 %         7/2022 -       44 %       56 %         8/2022 -       38 %       62 %         9/2022 -       21 %       79 %         0/2022 -       17 %       83 %         1/2022 -       38 %       62 %         2/2022 -       71 %       29 %         1/2023 -       47 %       53 %         2/2023 -       57 %       43 %         3/2023 -       74 %       26 %         4/2023 -       64 %       36 %         5/2023 -       52 %       48 %         6/2023 -       60 %       40 %         7/2023 -       66 %       34 %         8/2023 -       43 %       57 %	
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09/2023 <b>- 80 % 20 %</b>	
10/2023 – <b>90 % 10 %</b>	
11/2023 <b>- 76 % 24 %</b>	
12/2023 – <b>98 % 2</b> %	

# Welchau Gas Liquids Discovery Challenges and Opportunities



"Welchau is a resource of potential national significance <>>> With additional evaluation can come increasing value and reduced risk <>>>>>>>> We are starting from a very encouraging place"

#### Challenges

- Overcome the language problem in relation to carbonate reservoirs which are not well understood in Australia
- Timely communication of ongoing data analysis and resource estimates
- Efficiently progress ongoing evaluation, testing and appraisal objectives of project while meeting environmental and social obligations
- Bring key stakeholders with ADX on the journey
- Increase organisational capability in line with project development

#### **Opportunities**

- Commercialisation of a large, strategic, high value resource base at a high equity level
- Deepen Welchau-1 well to assess exploration potential which can be accessed at low relative cost
- Potential for early commercialisation of liquids
- Engagement with market to provide development finance
- Mature large play potential to drillable stage



#### **Complementary renewable energy projects** *Complementary projects with in ADX acreage*

Green H<sub>2</sub> project pilot phase (Vienna Basin)

Production & storage of green  $H_2$  at the Zistersdorf field

2.5 MW electrolyser

**370 MT p.a.** (green H<sub>2</sub>)

**75** GWh of storage capacity already identified



Green H<sub>2</sub> project scaleup phase (Vienna Basin)

Production & storage of green H<sub>2</sub> at the Zistersdorf field

**30 MW** electrolyser

**5,200** MT p.a. (green H<sub>2</sub>)

**100+ GWh** of storage capacity already identified



Solar power project (Vienna Basin)

Generation of renewable electricity with PV plants

1 or 2 PV plants considered

**1.5** MWp initial capacity with possibility to ramp-up

**Grid feed-in** (additional revenues) & **self-consumption** 



Gmunden geothermal project (Upper Austria)

Geothermal as well as oil & gas targets

15 MW plant capacity potential

**90%** success rate for geothermal wells in the area

Strong interest by local offtakers

"Drill wells with multi target potential"

"Value add to Vienna Basin Fields using depleted reservoirs to store hydrogen, facilities for production and land to install PV plants"

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# ADX role in European energy transition

Ideally positioned in the near term and the longer term

> Oil & gas demand continues to increase The transition to renewables is taking longer than expected

#### $\succ$ Gas is a transition fuel in the EU

Financial and greenhouse reduction benefits but gas supply is tight for foreseeable future

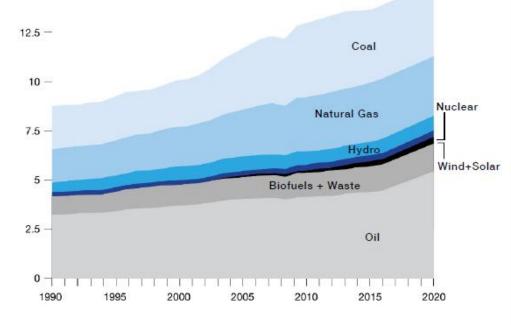
# Oil and gas industry can make a significant transition contribution

Geothermal, hydrogen & CO<sub>2</sub> storage are all needed to achieve net zero goals >> ADX well placed for all

"Oil and gas reservoirs have a big role to play in energy transition if coincident with infrastructure"

#### **Growth in Global Energy Demand**





**84%** of global energy supplied by coal, oil and gas

Source: BP, Statistical Review of World Energy 2022

"ADX Vienna Basin oil and gas fields are the potential site for a Green Hydrogen Production and Storage Project and a Solar Park for self consumption and sales into power the grid"

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# The ADX Team Experience of our Board and Management Team



#### **Connect with Us**





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# Better energy

A cleaner smarter future for Europe

#### Mr Ian Tchacos, Executive Chairman

35 years oil and gas professional and Corporate Leader. Petroleum Engineer, Operations and Corporate Development

#### Mr Paul Fink, CEO and Executive Director

30 years oil and gas professional. Geophysicist, New Ventures and Exploration Management (on medical leave)

#### Mr John Begg, Non Executive Director

35 years oil and gas professional. Geoscientist, Corporate Development

#### Mr Edouard Etienvre, Non Executive Director

20 years oil and gas professional. Finance and Corporate Development

Ms Amanda Sparks, Finance Manager & Co Company Secretary

20 years oil and gas professional. Finance and Company Secretarial, Chartered Accountant

#### Mr Peter Ironside, Co Company Secretary

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Ian Tchacos

**Executive Chairman** 

35 years resources professional. Finance, Chartered Accountant and Corporate Development

#### Mr Alan Reingruber, Managing Director ADX VIE

20 years oil and gas professional. Reservoir Engineer, Operations and Corporate