

June 2022

Pieridae Energy Corporate Presentation

PIERIDAE
ENERGY 

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Forward-looking statements are based on a number of factors and assumptions which have been used to develop such forward-looking statements, but which may prove to be incorrect. Although Pieridae believes that the expectations reflected in such forward-looking statements are reasonable as of the date of this presentation, undue reliance should not be placed on forward-looking statements because Pieridae can give no assurance that such expectations will prove to be correct.

In addition to other factors and assumptions which may be identified in this document, assumptions have been made regarding, among other things: the impact of increasing competition; the general stability of the economic and political environment in which Pieridae operates; the timely receipt of any required regulatory approvals; the ability of Pieridae to obtain qualified staff, equipment and services in a timely and cost efficient manner; the ability of the operator of the projects which Pieridae has an interest in, to operate the field in a safe, efficient and effective manner; the ability of Pieridae to obtain financing on acceptable terms; the ability to replace and expand oil and natural gas resources through acquisition, development and exploration; the timing and costs of pipeline, storage and facility construction and expansion and the ability of Pieridae to secure adequate product transportation; future oil and natural gas prices; currency, exchange and interest rates; the regulatory framework regarding royalties, taxes and environmental matters in the jurisdictions in which Pieridae operates; timing and amount of capital expenditures, future sources of funding, production levels, weather conditions, success of exploration and development activities, access to gathering, processing and pipeline systems, advancing technologies, and the ability of Pieridae to successfully market its oil and natural gas products.

Readers are cautioned that the foregoing list of factors is not exhaustive. Additional information on these and other factors that could affect Pieridae's operations and financial results are included in reports on file with Canadian securities regulatory authorities and may be accessed through the SEDAR website (www.sedar.com), and at Pieridae's website (www.pieridaeenergy.com). Although the forward-looking statements contained herein are based upon assumptions which management believes are reasonable in the circumstances, management cannot offer any assurance that actual results will be consistent with these forward-looking statements. Investors should not place undue reliance on forward-looking statements. These forward-looking statements are made as of the date hereof and Pieridae assumes no obligation to update or review them to reflect new events or circumstances except as required by applicable securities laws.

Statements relating to "reserves" are forward looking statements due to the fact that they involve the implied assessment, based on certain estimates and assumptions, that the reserves described exist in the quantities predicted or estimated and that the reserves can be profitably produced in the future. There are numerous uncertainties inherent in estimating quantities of reserves of natural gas, natural gas liquids and other commodities and the future cash flows attributed to such reserves. The reserve and associated cash flow information set forth above are estimates only. In general, estimates of economically recoverable reserves of natural gas, natural gas liquids and other commodities and the future net cash flows therefrom are based upon a number of variable factors and assumptions, such as historical production from the properties, production rates, ultimate reserve recovery, timing and amount of capital expenditures, marketability of oil and natural gas, royalty rates, the assumed effects of regulation by governmental agencies and future operating costs, all of which may vary materially. For these reasons, estimates of the economically recoverable reserves of natural gas, natural gas liquids and other commodities attributable to any particular group of properties, classification of such reserves based on risk of recovery and estimates of future net revenues associated with reserves prepared by different engineers, or by the same engineers at different times, may vary. Pieridae's actual production from its reserves and the revenues, taxes and development and operating expenditures generated or incurred with respect to its reserves will vary from estimates thereof and such variations could be material.

Barrels of oil equivalent ("boes") may be misleading, particularly if used in isolation. A boe conversion ratio of 6 Mcf: 1 Bbl is based on an energy equivalency conversion method primarily applicable at the burner tip and does not represent a value equivalency at the wellhead.



Who We Are

- Largest Foothills Producer in North America – *Q1 2022 production of 40,491 boe/d (77% natural gas)*
- Record Q1 2022 NOI¹ \$47 million
- Committed to net-zero emissions by 2050
- LNG project interest increasing, being reevaluated

Pieridae Market Snapshot

Ticker Symbol – TSX	PEA.TO
Share Count	157.6 million ²
Market Capitalization	259 million ³
Enterprise Value	537 million ⁴
Full Time Employees	270 ²

(1) Net Operating Income, see non-GAAP measures

(2) As of March 31, 2022

(3) PEA share price of \$1.64 as of May 30, 2022

(4) Includes \$278 million net debt as of March 31, 2022



Industry Experienced Management Team

Management

Alfred Sorensen

President, CEO & Director

- Founder of Continental Energy Marketing Ltd
- Former President of Duke Energy Canada
- Former President of Duke Energy Europe, London, UK
- Founder of Galveston LNG and the Kitimat LNG project in British Columbia

Darcy Reding P.Eng

President & Chief Operating Officer

- 30+ years of upstream oil & gas experience
- Former VP Operations and VP Operations & Geoscience at NAL Resources
- 20 years in leadership roles
- Proven success in creating and executing corporate and ESG strategies

Adam Gray

Chief Financial Officer

- 15+ years oil & gas & government experience
- Former Pieridae VP and Controller
- Managed commercial finance & accounting for North West Redwater Partnership
- Chartered Professional Accountant (CPA)

Yvonne McLeod

VP Production, HSER, Drilling & Completions

- Professional Engineer with 25+ years international and domestic experience with drilling and completion engineering in Trinidad, Alaska, Peru, Canada and the U.S.
- Former VP operations, drilling and completion with Ikkuma Resources and Manito Energy
- Former technical and engineering leadership rolls in Talisman and Exxon.

Thomas Dawson

SVP Marketing & Business Development

- Founder of Galveston LNG and the Kitimat LNG project in British Columbia
- Over 25 years of leadership experience in the global energy industry
- Previously with Duke Energy, Engage Energy and Coastal Corp

Independent Directors

Patricia McLeod, Q.C. - Chair

*Director, Alberta Innovates
Director, Green Line Board*

Andrew Judson

Director, Daytona Power Corp.

Charles Boulanger

CEO, Leddartech Inc.

Richard Couillard

*President, CEO CouilOil
Energy Inc.*

Doug Dreisinger

*Director, Connacher Oil & Gas
Ltd.*

Kiren Singh

Financial Executive and Corporate Director

Gail Harding, Q.C.

Former Senior VP Canadian Western Bank



Focused Foothills Assets with Conventional Development Potential

Southern

- Sweet gas play delineation provides low-risk drilling opportunities, complemented by near-term recompletion and reactivation potential

Jumping Pound

- Infill Viking and Turner Valley drilling opportunities, along with exploration drilling upside

Central AB Foothills

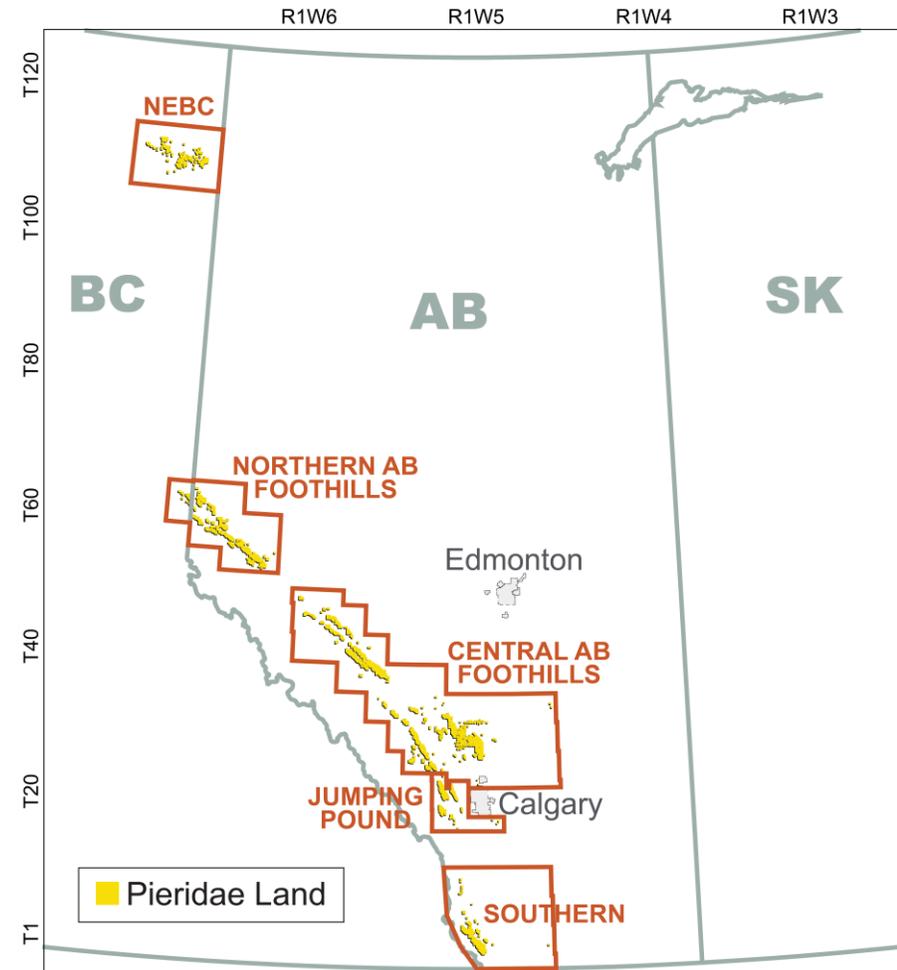
- Low-risk Ostracod development, combined with regional proof of concept horizontal opportunities in several Upper Mannville and Cretaceous zones

Northern AB Foothills

- Horizontal drilling opportunity to complement traditional vertical multi-zone completions in the Dunvegan, Cadotte and Falher

NEBC

- Pine Point reactivation potential with Jean Marie development opportunities





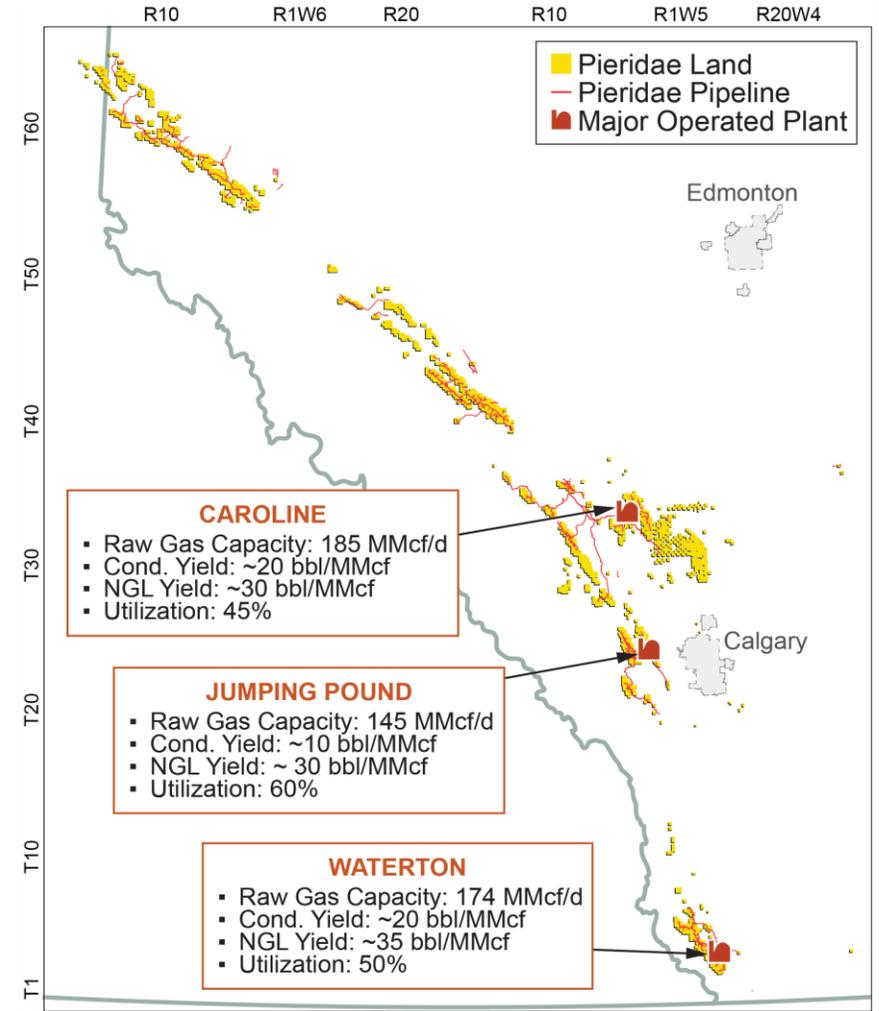
Pieridae Owned Infrastructure Supports Growth

Strategic location relative to Pieridae's upstream resources, while providing optionality for development upside

Significant underutilized capacity, with substantial third-party processing revenue

Sour processing facilities provide CO₂ capture infrastructure and CCS opportunities

Industry facility consolidation opportunities provide potential to significantly improve operating netback





Pieridae's ESG Vision

Business Vision

- To provide the energy to fuel people's lives while supporting the environment and the transition to a lower-carbon economy

ESG Vision

- Pieridae will:
 - be responsible stewards of the environment
 - foster mutually beneficial relationships with Indigenous Peoples of Canada and our stakeholders
 - be leaders in demonstrating good governance to establish trust, act with purpose, and support Pieridae's business vision

Commitment to Net-Zero Emissions by 2050

Carbon Sequestration

- Pieridae is pursuing blue power generation with carbon capture and storage capabilities
- Recently announced Caroline Carbon Capture Power Generation Complex

East Coast LNG

- Committed to net-zero emission for our LNG Project:
 - Source natural gas that demonstrates a commitment to a net-zero future
 - Reduce emissions at the LNG terminal
 - Purchase offsets for emissions above the net-zero benchmark

Conventional Natural Gas Extraction

- More than 98% of all producing Foothills wells did not use multi-stage fracking
- Conventional wells have a much smaller environmental footprint and substantially lower completion costs



Recent Developments

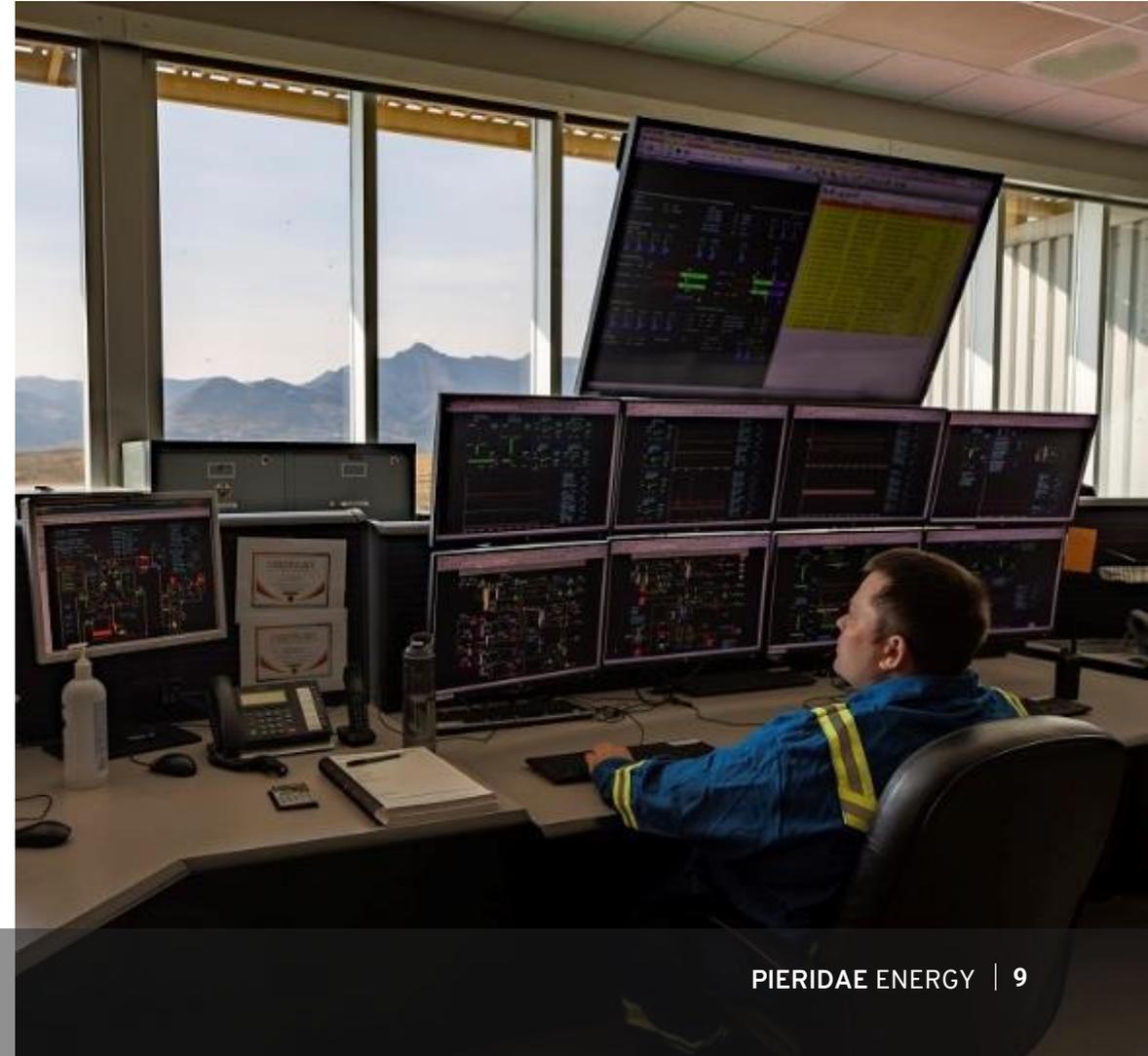
- Strong operational performance and higher commodity prices drove a 127% year-over-year increase in Net Operating Income to \$47 MM
- Growing support for Pieridae's carbon-neutral LNG project
- Planning on-track for Pieridae's first drilling program to commence in the second half of 2022
 - Subject to final internal approvals & continued strong commodity prices
- Term loan principal repayment commenced in April 2022



Our Strategic Path To Success

2022 Priorities:

- Refinance and reduce debt
- Commence drilling in second half of 2022, consistent with approved capital plan
- Sharpened focus on ESG & future carbon neutrality
- *New: Re-evaluate LNG project feasibility*



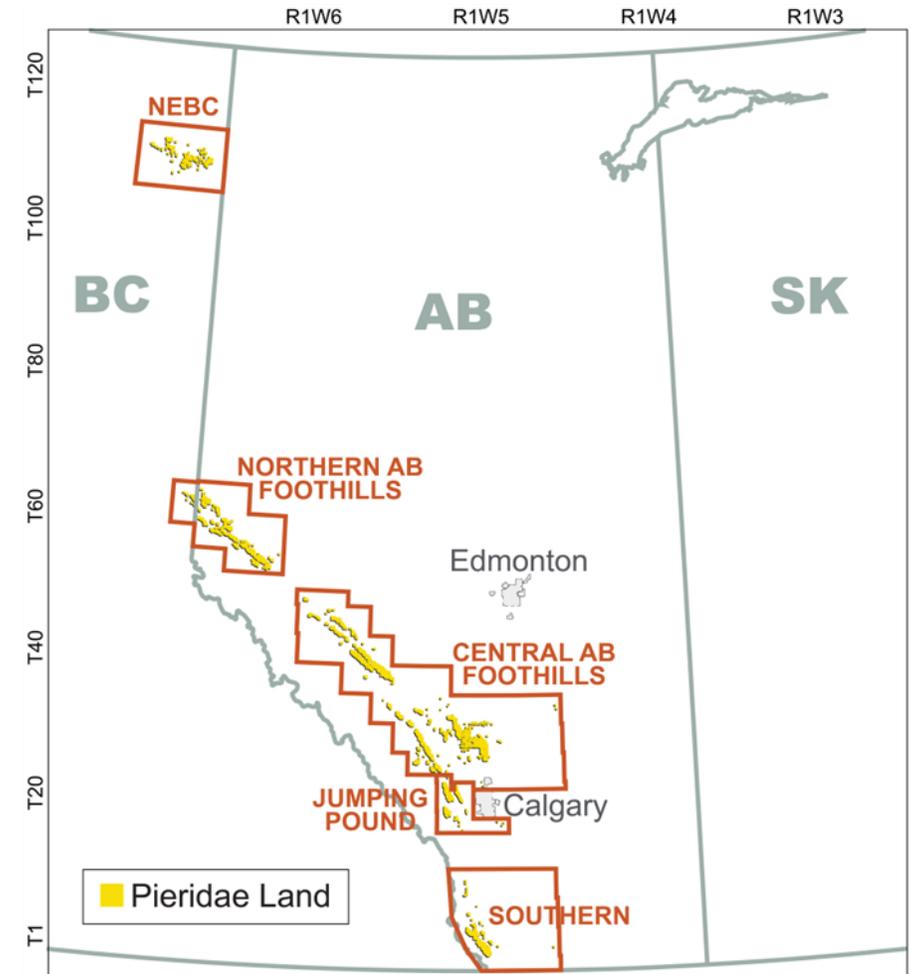


Operations Update



Q1 2022 Operations Update

- Q1 production strong at 40,491 boe/d, 77% natural gas, despite a scheduled and unscheduled outage
 - Low-cost optimization and resilient winter on-time pushed instantaneous production to over 43,000 boe/d during the quarter
- Rising industry costs were largely mitigated with relentless focus on cost containment & rigorous supply chain management





2022 Drilling Program

- \$25MM (\$21.4 MM net) three-well drilling program kicking-off in Q4 in Brown Creek in our Central AB Foothills core area
 - New production expected to come on-stream in Q1 & Q2 2023
- Targets extension of successful sweet Mannville plays east of Pieridae lands in the central plains
- Foothills play openers – massive upside given Pieridae’s extensive land base
- Utilizes existing gathering & processing infrastructure





Q1 2022 Financial Results



Q1 2022 – Quarterly Highlights

	2022	2021				2020		
(\$ 000 unless otherwise stated)	Q1	Q4	Q3	Q2	Q1	Q4	Q3	Q2
Production								
Natural gas (mcf/day)	187,719	198,596	191,439	194,232	215,179	212,220	184,080	208,689
Condensate (bbl/day)	3,201	2,851	2,555	2,950	3,158	3,259	2,807	3,166
NGLs (bbl/day)	6,003	5,354	4,133	3,083	4,975	6,171	4,722	5,843
Sulphur (ton/day)	1,599	1,185	1,518	1,710	1,713	1,829	2,232	1,970
Total production (boe/d)	40,491	41,304	38,595	38,404	43,997	44,800	38,209	43,791
Financial								
Realized natural gas price (\$/mcf)	4.08	3.67	2.70	2.59	2.63	2.16	1.7	1.87
Benchmark natural gas price (\$/mcf)	4.75	4.69	3.59	3.11	3.16	2.67	2.14	1.98
Realized condensate price (\$/bbl)	106.13	69.71	65.33	68.08	58.4	53.48	44.67	39.94
Benchmark condensate price (\$/bbl)	122.62	100.1	70.25	64.82	59.05	56.01	38.4	35.83
Net income (loss)	10,549	4,661	(14,846)	(10,058)	(19,547)	(45,968)	(29,845)	(13,396)
Net operating income (loss) ⁽¹⁾	47,295	30,845	17,920	14,444	20,876	12,829	(646)	19,301
Cashflow from operating activities	3,212	21,139	6,885	12,093	11,000	2,362	(4,541)	(2,013)
Adjusted funds flow from operations ⁽¹⁾	45,144	23,317	10,981	8,516	14,878	8,535	(6,779)	12,466
Working capital (deficit) surplus	(64,413)	(87,665)	(52,534)	(47,862)	(28,314)	(19,615)	(9,164)	15,109
Operating Netback (\$/boe)								
Total Revenue	35.61	28.37	22.90	21.89	22.11	18.68	15.86	17.58
Royalties	5.25	4.65	1.70	1.11	0.97	1.07	0.34	0.35
Operating	15.72	14.17	14.84	15.41	14.70	13.46	14.66	11.40
Transportation	1.66	1.42	1.32	1.24	1.17	1.04	1.04	0.99
Operating Netback (\$/boe)	12.98	8.12	5.05	4.13	5.27	3.11	(0.18)	4.84

(1) Refer to the “non-GAAP measures” section on pages 14-15 of the Company’s Q1 2022 MD&A

(2) Total production excludes sulphur



Net Debt Reduction

- Term loan principal repayments commenced in Q2
 - \$2MM repaid in April
 - \$5MM planned for end of May
 - \$30-50MM repayments over the next 12 months, subject to commodity prices
- Continued focus on reduction of working capital deficit





Hedging Update

- Pieridae hedges production with fixed-price forward physical contracts
- 60% 18-month rolling average production hedge waiver extended to end of August 2022
- Q2 activity - no additional gas positions have been added, continuing to protect 2022 Jul-Dec condensate (C\$WTI basis hedges)

2022E Hedge %	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	May-Dec 22
Natural Gas									
Hedged (Mcf/d)	97,156	97,156	101,896	101,896	101,896	97,156	16,588	16,588	78,876
% Hedged	51%	63%	52%	52%	56%	48%	8%	8%	41%
Average Price (\$/Mcf)	\$2.72	\$2.72	\$2.80	\$2.80	\$2.80	\$2.72	\$3.04	\$3.04	\$2.78
Condensate									
Hedged (bbl/d)	1,500	1,500	1,000	500	500	500	500	500	812
% Hedged	50%	59%	33%	17%	18%	17%	17%	17%	28%
Average Price (C\$/bbl WTI)	\$107.92	\$107.93	\$116.26	\$123.59	\$123.59	\$123.59	\$123.59	\$123.59	\$115.23
Total Production									
Hedged (boe/d)	17,693	17,693	17,983	17,483	17,483	16,693	3,265	3,265	13,958
% Hedged	46%	57%	46%	42%	45%	39%	8%	8%	35%



2022 Outlook

(\$ 000s unless otherwise noted)	2022	2022
	Original Guidance	Revised Guidance
Total production (boe/d)	39,000 – 42,000	39,000 – 42,000
Net operating income (NOI) ⁽¹⁾⁽²⁾	100,000 – 130,000	120,000 – 160,000
Implied Operating Netback (\$/boe) ⁽²⁾	7.02 – 8.48	9.00 – 11.00
Sustaining capital expenditures ⁽³⁾	17,000 – 22,000	17,000 – 22,000
Development capital expenditures ⁽⁴⁾	17,000 – 25,000	17,000 – 25,000

- Higher commodity prices are driving stronger NOI forecast for 2022
- Revenue and NOI outlook impacted by commodity volatility. Outlook assumes average 2022 AECO of \$4.96/Mcf, and average WTI of US\$88.09/bbl
- Sustaining capital (maintenance) comprised of capital maintenance projects, pre-spending for the 2023 Waterton plant turnaround, reclamation work, and completion of our seismic purchase
- Development capital comprised of optimization activities, and three-well drilling program

(1) Refer to the “non-GAAP measures” section of the Company’s latest MD&A.

(2) 2022 outlook assumes average 2022 AECO price of \$4.96/mcf and average 2022 WTI price of USD\$88.09/bbl and accounts for fixed price forward commodity sales contracts as of March 31, 2022

(3) Comprised of facility maintenance and turnaround capital expenditures

(4) Comprised of seismic, development and land capital expenditures



LNG Project Update



An Option to Supply Canadian Natural Gas to Europe

Early in 2022, rising tensions between Russia and Ukraine placed global energy security of supply front and centre

Pieridae has a solution to help Canada take a leadership role in supplying much needed natural gas overseas for 20 to 30 years, mitigating global supply issues and reliance on Russian natural gas

We feel we have an obligation as a country to help resolve these global issues through:

- Exports of Canadian net-zero LNG from the east coast as soon as possible
- Net-zero CO₂ emissions through a proposed large-scale carbon capture and storage facility in Alberta



Pathway to Pieridae's East Coast LNG Success

Investment partner

First Nations participation

Net zero solution

Pipeline transportation access

Government of Canada public support and financial participation





Wrap Up & Key Takeaways



Key Takeaways – Q1 and Full Year 2022

- Maintain focus on core business safety & operational reliability
- High commodity prices driving strong cash flow
 - Directed to reduce net debt
- Inaugural Pieridae drilling program scheduled for second half of 2022
- Sharpened focus on ESG and carbon neutrality; 2nd annual sustainability report in Q3
- LNG generating renewed interest





Pieridae Advantage

Veteran management team with extensive upstream and midstream experience.

Largest North American Foothills producer with more than one million net acres.

Committed to net-zero emissions by 2050 through carbon capture and other technologies.

Potential net-zero LNG Project that would allow Canada to supply much needed natural gas overseas for 20-30 years, dealing with global supply issues.

Released first-ever ESG Report in 2021 as we provide the energy to fuel people's lives through the transition to a lower carbon world.

Trusted relationships with Indigenous Peoples, local communities, Canadian Federal and Provincial governments.



Questions

