



ENVIRONMENTAL CLEAN
TECHNOLOGIES LIMITED

31 October 2022

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Lodgement of September 2022 Quarterly Report and Appendix 4C

ECT is pleased to attach the following items for immediate release to the market:

- September 2022 Quarterly Activity Report
- Appendix 4C

Sincerely,

Arron Canicaïs
Company Secretary



Quarterly Activity Report and Appendix 4C

31 October 2022: Environmental Clean Technologies Limited (ASX: ECT) (ECT or Company) is pleased to provide the following update and Appendix 4C for the quarter ending 30 September 2022.

Highlights

Projects

- **COLDry Demonstration Project (Bacchus Marsh)**
 - Phase 1 continues wet commissioning program with focus on conditioning system
 - Results of Phase 1 commissioning to be finalised during December 2022
 - Phase 2 planning and engineering with joint venture partner GrapheneX targeting the downstream production of hydrogen, char, formic acid, dimethyl ether, electricity and advanced carbon products.
 - Increased engagement with major industry players as the COLDry project progresses
 - Defining key inputs to allow transition to commercial plant after demonstration, including:
 - Electricity
 - Waste heat
 - Feedstock (lignite and biomass)
 - Logistics solutions
 - Developing “Vision Statement” for site for presentation at upcoming AGM
- **Net Zero Hydrogen Refinery Project (Latrobe Valley)**
 - Small demonstration of data centre as first tenant at the Yallourn project office
 - Project feasibility continues with focus turning to long-term lignite supply
 - Gatehouse building refurbished and returned to full use

Corporate

- InvestVictoria approved the rollover of the Company’s R&D Cashflow Loan for a further period of 12 months, delivering free cashflow from the FY22 R&D Tax Incentive rebate
- Increased media and Government visibility, including:
 - Managing Director Glenn Fozard Interviewed by Proactive Investors
 - ECT appearing on A Current Affair, highlighting vision for Net Zero Hydrogen Project in Victoria’s Latrobe Valley
 - State Government Treasurer Tim Pallas mentions ECT in media statement on jobs and innovation
 - ECT highlighted as case study in Invest Victoria's annual report
 - Active news flow and content via social media (LinkedIn, Facebook and Twitter)

Subsequent to the quarter

- Full-year ESG and TCFD reports released
- R&D Tax Incentive rebate received, delivering \$1.797 million cash

Bacchus Marsh COLDry Demonstration Plant (“Bacchus Marsh Project”)

Phase 1 Quarterly Update

Building on the successful production of the first COLDry pellets from the primary processing system in the prior quarter, the Company progressed the commissioning and test program for the conditioning system, in addition to a range of peripheral activities, including:

- Successful fully automated start-up and shutdown of the primary processing system
- Fire monitoring and suppression systems
- Safety fencing
- External lighting
- Final installation of production sensors, instrumentation and controls, enabling safe and integrated operations via the operator control system

Chief Engineer Ashley Moore commented:

“This past quarter focused on preparations for commissioning our bespoke conditioning system in preparation for detailed trials in the coming weeks.

“Until the rotary kiln is installed and operating as part of Phase 2, we need to simulate the waste heat to test, calibrate and map the performance of the conditioning system in concert with the primary processing system to confirm the operational envelope, exploring new capabilities and system responses to a wide range of operational parameters.

“In addition, the performance of the conditioning system will determine the drying rate of the pellets, which in turn informs the sizing, and therefore the cost, of the final drying stage; the Packed Bed Dryer.

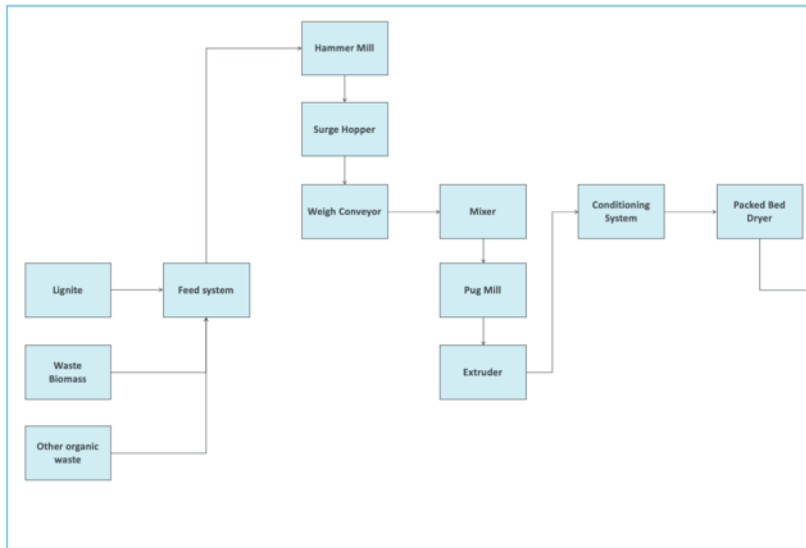
“We look forward to completing the commissioning of the conditioning system between now and Christmas as we advance Phase 2 development in parallel.”

As outlined in past updates, the engineering team has identified significant potential process efficiency gains which centre on the new five-pass conditioning system. If confirmed, the efficiency gain could provide substantial CAPEX and OPEX savings across Phase 1 and Phase 2 of the Bacchus Marsh Project and flow-on benefits for the planned Latrobe Valley project.

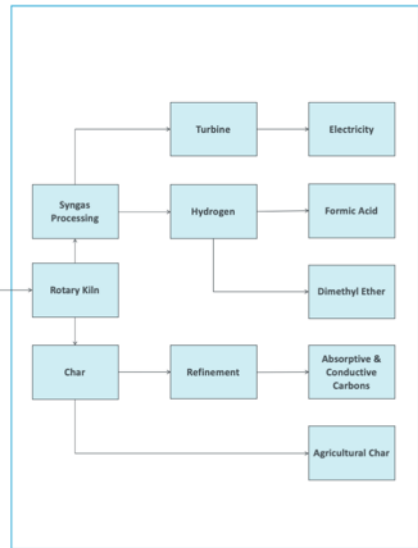
Therefore, the next step in wet commissioning will be a series of experimental commissioning runs entailing lignite run through the primary processing system to the conditioning system to ascertain the drying performance profile and operational envelope. Key conditioning system variables will be monitored, generating the required data necessary to validate the potential efficiency gains and complete Phase 1 commissioning, providing the pathway for integration with Phase 2 activities as they progress in the coming months.

Net Zero Hydrogen Demonstration

Phase 1: COLDry Demonstration Plant



Phase 2: Integrated Hydrogen Demonstration



As Phase 1 nears the completion of wet commissioning, the Company is turning to develop key commercial inputs. This will be essential to establish long-term feasibility for the plant and attract further project and offtake partners.

Developing access to free waste heat and stable, economical electricity prices will materially aid in pursuing sustainable commercial feasibility for the site beyond the initial demonstration.

To this end, ECT has been assessing and trialling the co-location of a data centre business with the COLDry process to allow for the harvesting of waste heat from the data centre equipment, as well as the integration with solar and turbine generation of electricity to reduce power costs for the site.

A detailed vision statement and presentation for the Bacchus Marsh site will be available over the coming weeks.

Commissioning Activity



Photos (above): Installation of safety fencing.



Photos (above): Programming of primary process control systems.



Photos (above): conditioning system commissioning.

Phase 2 Quarterly Update – Site Layout & Project Planning Progressing

Background

On 28 April, the Company announced the signing of the binding joint venture agreement (JVA) with GrapheneX, formalising the framework for Phase 2 of the COLDry Demonstration Project.

The JVA upgrades will enable the first-of-a-kind demonstration of low-emission electricity production from syngas and the generation of hydrogen derivative products from lignite and waste biomass blends, making it the largest demonstration of its kind in Australia.

GrapheneX has committed to supplying a multi-feedstock electricity generation turbine to be installed at ECT's Bacchus Marsh site. GrapheneX will also provide funding of \$3.5m for the installation of the turbine and the formic acid process equipment.

The formic acid plant will demonstrate the production of formic acid (HCOOH) from the syngas product stream. Formic acid is a liquid organic hydrogen carrier that provides a safer, lower-cost hydrogen transport alternative¹ to ammonia or cryogenic hydrogen. In addition, it is also a product in its own right, used as a livestock feed preservative, amongst other applications.

ECT has committed \$3.5m to the JVA, from which the Company will fund the installation of the pyrolysis kiln and ancillary plant to produce char and syngas from COLDry pellets made from a blend of biomass and lignite.

ECT Managing Director Glenn Fozard commented:

"Once installed, the process will be the largest hydrogen production capability from lignite. Add to that the largest demonstration of low-emission electricity from lignite syngas, and we have a site of national significance. ECT shareholders and GrapheneX should be proud of this proposed development, and the facility's national profile will support increased industry and government interest."

The Project, similar to the HESC² project, aims to be a fully integrated supply chain solution for hydrogen. However, the key difference for ECT's project is that, instead of focusing on high-purity hydrogen, it will focus on hydrogen derivatives, which solve the immediate storage and transportation challenges. In addition, the Project does not require the CCS infrastructure planned to curtail emissions for Blue Hydrogen projects. By eliminating two of the biggest challenges facing the immediate deployment of hydrogen production plants, the Project allows ECT and GrapheneX to focus on technical scale-up, commercial optimisation and further emissions and waste improvements.

The Company continues discussions with additional potential partners and will update the market as and when they become certain.

Status Update

At the date of this report, project planning is well advanced, the site layout has been finalised, vendors shortlisted, and tender packs are being released.

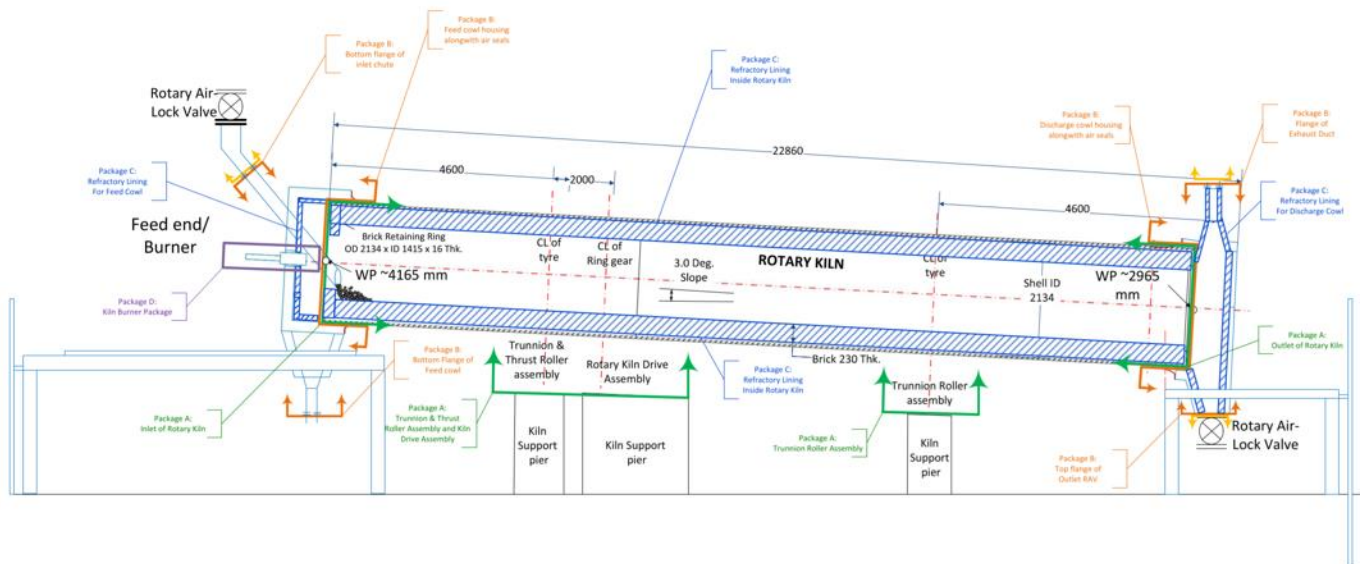
¹ Formic acid is liquid at ambient temperature and pressure, unlike other proposed methods which require low / extremely low temperature and high pressure, and specialised transport vessels.

² HESC refers to the *Hydrogen Energy Supply Chain* pilot project which aims to safely demonstrate the production and transport of clean liquid hydrogen from Victoria's Latrobe Valley to Japan.

Regarding ECT's obligations, Phase 2 of the COLDry Demonstration Project at Bacchus Marsh entails the installation of the rotary kiln, waste heat integration with the COLDry process and interface with the downstream application to be provided by project partner GrapheneX.

The engineering design program progressed during the period, finalising a range of deliverables, including:

- Process Flow Diagrams (PFD's)
- Piping and Instrumentation Diagrams (PID's)
- Major tender packs:
 - Civil design for the kiln was completed during the period, vendors identified, and tender packs issued
 - Kiln install and alignment:
 - Mount trunnion rollers & gearbox on piers
 - Lift kiln into place
 - Laser align and track
 - Refractory installation:
 - Design
 - Purchase (long lead item)
 - Refractory installation
 - Cows and Seals:
 - Design (mechanical and insulation)
 - Fabricate
 - Install
 - Cooling conveyor:
 - Specify & purchase, or
 - Design & Fabricate



PACKAGE A: Rotary Kiln Main Package

PACKAGE B: Feed & Discharge Cows Package

PACKAGE C: Refractory Lining Package

PACKAGE D: Kiln Burner Package

OTHERS

Latrobe Valley Net Zero Emission Hydrogen Refinery (“Latrobe Valley Project”)

The Company has continued to focus on improving the site acquired in February 2022 at Yallourn Drive, Yallourn, including on-site safety and security and essential upgrades to allow for utilities and services to support the tenancy of the buildings.

The site has been acquired primarily to host the deployment of the Company’s proposed headline Latrobe Valley Net Zero Emission hydrogen refinery project, which aims to deliver:

- Net-zero emission hydrogen: supporting the energy transition needed to achieve emission reduction targets
- Critical minerals: supplying the crucial battery storage and industrial minerals market
- Agricultural char: supporting national agricultural industry through soil health and productivity
- Other valuable products: including high-value carbon and minerals products

The site also includes a large heritage-listed building, the headquarters of the original State Electricity Commission of Victoria (SECV). This building will support the Latrobe Valley Project as an administration and training centre.

In addition, the Company is looking at how it can also support local social enterprises with low rent and power, in alignment with the Company’s ESG principles, of providing wealth and prosperity to the community.

Trials have started with a data centre business to establish the first tenancy but also look at ways to integrate a more extensive business of this type at Bacchus Marsh to supply free waste heat.

Project approvals and licensing works program continued over the quarter, with a series of community engagement activities commencing in support of the required communication programs under the EPA approvals pathway program that will expand as required.

The development of the full feasibility package for the Latrobe Valley Project has been directed towards a focus on securing long term lignite supplies. A consortia is being formed to look at presenting a repurposing proposal for the existing lignite mines that are being directed away from electricity as part of the industry wide shut-down of electricity generated from mineral based resources. Over this time, ECT’s resources will be directed in favour of establishing commercial credentials for the Bacchus Marsh project. The Company aims to recommence the full feasibility study in the new year once we have established a clear direction on security lignite supplies.

Media, Government & External Coverage

Proactive Investors Website

On 3 August, Managing Director Glenn Fozard appeared in an interview on *Proactive Investors* website, providing an overview of the Company’s approach to delivering net zero solutions.

Link: <https://ectltd.com.au/proactive-investors-environmental-clean-technologies-bringing-global-industries-closer-to-zero-emissions/>.



A Current Affair (TV news program)

On 27 August, the Company was featured in a segment of *A Current Affair*, highlighting the Net Zero Hydrogen Refinery Project proposed for Victoria's Latrobe Valley.

Link: <https://ectltd.com.au/ect-appears-on-a-current-affair/>.



Managing Director Glenn Fozard being interviewed by Georgia Westgarth

Victorian Government

The Company was profiled in InvestVictoria's **International Investment Report for 2021-22** as a case study for its R&D Cashflow program (p25). In addition, on 14 September, Victorian Treasurer Tim Pallas issued a media release where ECT and its proposed Net Zero Hydrogen Refinery Project were explicitly referenced.

Links:

- Invest Victoria Report: <https://www.invest.vic.gov.au/how-we-can-help/about-us/international-investment-report>
- Treasurer's Media Release: <https://www.timpallas.com.au/media-releases/victoria-leads-nation-in-job-creating-investment/>.



TIM PALLAS  **ABOUT** **TREASURER** **MEDIA CENTRE** **PALLAS POST NEWSLETTER** **COMMUNITY E-NEWS** **SPORTS E-NEWS**

MEDIA RELEASE

VICTORIA LEADS NATION IN JOB-CREATING INVESTMENT

SEPTEMBER 14, 2022

Invest Victoria also works with Victorian companies to support innovation and growth through the existing \$25 million Venture Growth Fund, the \$20 million Equity Investment Attraction Fund and the \$50 million R&D Cash Flow Loans program.

One beneficiary of the R&D Cash Flow Loan program is Environmental Clean Technologies (ECT), the creator of a lignite drying process capable of reducing emissions in the generation of electricity. A loan supported ECT to establish an R&D facility and a feasibility study for a net-zero emission hydrogen refinery in the Latrobe Valley.

Social Media

The Company keeps the market updated via a range of channels, including:

- **ASX Announcements platform:** all material announcements and certain statutory documents are released via the ASX announcements platform - <https://www2.asx.com.au/markets/trade-our-cash-market/announcements.ect>.
- **Website:** find the latest ASX announcements, news articles, presentations, interviews and reports on our website – www.ectltd.com.au.
- **Email subscriber list:** sign up here to join our email list - <https://ectltd.com.au/investors/>.

In addition, the Company provides a range of updates via social media, including:

- **LinkedIn:** follow us here - <https://www.linkedin.com/company/environmental-clean-technologies-limited/>.
- **Twitter:** follow us here - <https://twitter.com/ectltd>.
- **Facebook:** follow us here - <https://www.facebook.com/ectltd>.

Commentary to Appendix 4C

The Company's use of cash in operating activities increased by \$0.28M compared to the previous quarter. This increase was predominantly comprised of audit and accounting fees associated with preparing the financial statements and the annual ASX listing fees.

Approximately \$0.46M was spent on property, plant and equipment during the quarter compared to \$0.52M in the prior quarter as the Company continued works to complete Phase 1 of the Bacchus Marsh COLDry facility.

No capital raisings were undertaken during the quarter ended 30 September 2022. The company raised \$4.7M in the prior quarter via a share placement.

Payments of \$0.12M (previous quarter \$0.13M) were made to related parties of the entity, which included directors' fees and payments to the Company's full-time executive director.

ESG Reporting

Environment

- Completing of the Company's inaugural Task Force on Climate-related Financial Disclosures ("TCFD") report for FY22. This report is a qualitative assessment and sets a baseline for future quantitative assessments of climate risks and opportunities.

The FY22 TCFD Report appears on ECT's website: www.ectltd.com.au/esg

- Commenced scoping work relating to measurement of the Company's FY22 GHG emissions for all operating sites – Bacchus Marsh, South Yarra & Latrobe Valley (Yallourn).
- Commenced implementation of sustainability initiatives to reduce ongoing corporate Greenhouse Gas (GHG) footprint (e.g. carbon neutral electricity at South Yarra) and continues to progress on this front.

Social

- Commenced tracking of training hours undertaken by personnel. Total training recorded was 80 hours, of which 70 hours was for training provided by external parties. The total external cost of the training was \$3,274 at an average cost of \$47/hour or \$259 per FTE, exclusive of personnel wage costs.

Governance

- Commenced reviewing and updating policies, procedures, charters and plans in line with Good Governance Principles.

ESG Dashboard Progress

ECT continues to disclose its progress against the World Economic Forum (“WEF”) ESG Metrics.

The ESG Dashboard below (provided by ESG technology partner, Socialsuite) provides a snapshot of the Company’s progress from the end of the previous quarter to 30 September 2022.

Environmental Clean Technologies
ASX:ECT

Period Comparison (Period 4 vs 5)

Progress
P In progress
C Completed
N Not applicable

Governance		Period 4 (Apr to Jun 2022)		Period 5 (Jul to Sep 2022)	
Code	Description	Status	Progress (A1-A5)	Status	Progress (A1-A5)
GOVERNING PURPOSE					
GO-01-C1	Setting purpose	VERIFIED	C C C C C	VERIFIED	C C C C C
QUALITY OF GOVERNING BODY					
GO-02-C1	Governance body composition	VERIFIED	C C C C C	VERIFIED	C C C C C
STAKEHOLDER ENGAGEMENT					
GO-03-C1	Material issues impacting stakeholders	VERIFIED	C C C P C	VERIFIED	C P C C C
ETHICAL BEHAVIOUR					
GO-04-C1	Anti-corruption practices	VERIFIED	C P C	VERIFIED	C C P
GO-04-C2	Mechanisms to protect ethical behaviour	VERIFIED	C P	VERIFIED	C P
RISK AND OPPORTUNITY OVERSIGHT					
GO-05-C1	Integrating risk and opportunity into business process	VERIFIED	C C C C C	VERIFIED	C C C C C
Planet		Period 4 (Apr to Jun 2022)		Period 5 (Jul to Sep 2022)	
Code	Description	Status	Progress (A1-A5)	Status	Progress (A1-A5)
CLIMATE CHANGE					
PL-01-C1	GHG emissions	VERIFIED	C P C	VERIFIED	C C C
PL-01-C2	TCFD implementation	VERIFIED	P C C	VERIFIED	C C C
NATURE LOSS					
PL-02-C1	Land use and key biodiversity areas	VERIFIED	N N N N C	VERIFIED	N C N N N
FRESHWATER AVAILABILITY					
PL-03-C1	Water consumption	VERIFIED	N N N C N	VERIFIED	N N N N C
People		Period 4 (Apr to Jun 2022)		Period 5 (Jul to Sep 2022)	
Code	Description	Status	Progress (A1-A5)	Status	Progress (A1-A5)
DIGNITY AND EQUALITY					
PE-01-C1	Diversity and inclusion	VERIFIED	C P P P P	VERIFIED	P P C P P
PE-01-C2	Pay equality	VERIFIED	C P P P	VERIFIED	P P C P
PE-01-C3	Wage level	VERIFIED	P P	VERIFIED	P P
PE-01-C4	Child, forced or compulsory labour	VERIFIED	P	VERIFIED	P
HEALTH AND WELL-BEING					
PE-02-C1	Health and safety	VERIFIED	P C	VERIFIED	P C
SKILLS FOR THE FUTURE					
PE-03-C1	Training provided	VERIFIED	C C	VERIFIED	C C
Prosperity		Period 4 (Apr to Jun 2022)		Period 5 (Jul to Sep 2022)	
Code	Description	Status	Progress (A1-A5)	Status	Progress (A1-A5)
EMPLOYMENT AND WEALTH GENERATION					
PR-01-C1	Rate of employment	VERIFIED	C C	VERIFIED	C C
PR-01-C2	Economic contribution	VERIFIED	C C	VERIFIED	C C
PR-01-C3	Financial investment contribution	VERIFIED	C C	VERIFIED	C C
INNOVATION OF BETTER PRODUCTS AND SERVICES					
PR-02-C1	Total R&D expenses	VERIFIED	C	VERIFIED	C
COMMUNITY AND SOCIAL VITALITY					
PR-03-C1	Total tax paid	VERIFIED	C	VERIFIED	C

ESG Report Data Disclaimer
Environmental Clean Technologies | Period Comparison | Published on 26 Oct 2022

Powered by
Socialsuite ESG

Full details of the quarter’s ESG progress are disclosed in the Company’s report, ESG Highlights Q1FY23, which can be found on the Company’s ESG web page: www.ectltd.com.au/esg

Subsequent to the End of the Period

Corporate & Finance

Subsequent to the end of the period, the Company released its annual ESG and TCFD reports.

In addition, the Company announced the receipt of its R&D Tax Incentive rebate of \$1.797 million.

// END //

This announcement is authorised for release to the ASX by the Board.

For further information, please contact:

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About ECT

ECT has been developing net-zero emission and hydrogen technologies for over 15 years.

Our solutions aim to transition today's use of resources to tomorrow's zero-emission future, delivering immediate financial and environmental benefits.

We are focused on advancing a portfolio of technologies with significant market potential globally.

ECT's business plan is currently focusing on two major projects:

- 1) Zero-Net Emission COLDry Commercial Demonstration at Bacchus Marsh, Victoria, Australia
- 2) Zero-Net Emission Hydrogen Refinery Project at the Latrobe Valley, Victoria, Australia

About our Technology Suite

COLDry

COLDry is the gateway enabler of higher-value applications for waste biomass and lignite.

These streams are a rich source of valuable hydrocarbons. However, they suffer from high moisture content that must be reduced to enable higher value upgrading and conversion to solid fuels, liquid or gaseous hydrocarbons.

Drying is easy. However, drying efficiently, cost-effectively and with a low emissions footprint has been the challenge. COLDry meets this challenge through a combination of "substrate densification" and waste heat utilisation, delivering the world's first low temperature, low pressure, low cost, zero CO₂ emissions drying process.

HydroMOR

The HydroMOR process has the potential to revolutionise primary iron making.

HydroMOR is a simple, low-cost, low-emission, hydrogen-driven technology that enables low-value feedstocks to produce primary iron. HydroMOR is the transition solution to a "green steel" future.

COHgen

The COHgen process has the potential to deliver a lower cost, lower emission method for hydrogen production from lignite and other waste biomass streams.

COHgen is currently advancing through fundamental laboratory development intended to form the basis for a patent application ahead of scale-up and commercialisation.

COHgen aims to decouple hydrogen production from CCS, accelerating the race towards <\$2/kg production costs, with little to no emissions.

CDP-WTE

The catalytic depolymerisation-based waste-to-energy process converts low-value resources into higher-value diesel and other valuable by-products.

CDP-WTE can be deployed as a standalone solution or integrated with the COLDry process to deliver higher-value, lower-emission energy solutions to lignite resource owners.

Forward-Looking Statements

Statements contained in this release, particularly those regarding possible or assumed future performance, revenue, costs, dividends, production levels or rates, prices or potential growth of ECT, are or may be, forward-looking statements. Such statements relate to future events and expectations and, as such, involve known and unknown risks and uncertainties. Therefore, actual results and developments may differ materially from those expressed or implied by these forward-looking statements depending on a variety of factors.

Appendix 4C

Quarterly cash flow report for entities subject to Listing Rule 4.7B

Name of entity

Environmental Clean Technologies Limited

ABN

28 009 120 405

Quarter ended ("current quarter")

30 September 2022

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers	1	1
1.2 Payments for		
(a) research and development	(309)	(309)
(b) product manufacturing and operating costs		
(c) advertising and marketing		
(d) leased assets		
(e) staff costs	(180)	(180)
(f) administration and corporate costs	(681)	(681)
1.3 Dividends received (see note 3)		
1.4 Interest received	4	4
1.5 Interest and other costs of finance paid	(8)	(8)
1.6 Income taxes paid		
1.7 Government grants and tax incentives		
1.8 Other (provide details if material)		
1.9 Net cash from / (used in) operating activities	(1,173)	(1,173)
2. Cash flows from investing activities		
2.1 Payments to acquire or for:		
(a) entities		
(b) businesses		
(c) property, plant and equipment	(459)	(459)
(d) investments		
(e) intellectual property		
(f) other non-current assets		

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
2.2	Proceeds from disposal of:		
	(a) entities		
	(b) businesses		
	(c) property, plant and equipment	30	30
	(d) investments		
	(e) intellectual property		
	(f) other non-current assets		
2.3	Cash flows from loans to other entities		
2.4	Dividends received (see note 3)		
2.5	Other (provide details if material)		
2.6	Net cash from / (used in) investing activities	(429)	(429)

3.	Cash flows from financing activities		
3.1	Proceeds from issues of equity securities (excluding convertible debt securities)		
3.2	Proceeds from issue of convertible debt securities		
3.3	Proceeds from exercise of options		
3.4	Transaction costs related to issues of equity securities or convertible debt securities		
3.5	Proceeds from borrowings		
3.6	Repayment of borrowings	(23)	(23)
3.7	Transaction costs related to loans and borrowings		
3.8	Dividends paid		
3.9	Other (provide details if material)		
3.10	Net cash from / (used in) financing activities	(23)	(23)

4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	4,403	4,403
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(1,173)	(1,173)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	(429)	(429)

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
4.4	Net cash from / (used in) financing activities (item 3.10 above)	(23)	(23)
4.5	Effect of movement in exchange rates on cash held		
4.6	Cash and cash equivalents at end of period	2,778	2,778

5.	Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1	Bank balances	2,778	4,403
5.2	Call deposits		
5.3	Bank overdrafts		
5.4	Other (provide details)		
5.5	Cash and cash equivalents at end of quarter (should equal item 4.6 above)	2,778	4,403

6.	Payments to related parties of the entity and their associates	Current quarter \$A'000
6.1	Aggregate amount of payments to related parties and their associates included in item 1	116
6.2	Aggregate amount of payments to related parties and their associates included in item 2	
<i>Note: if any amounts are shown in items 6.1 or 6.2, your quarterly activity report must include a description of, and an explanation for, such payments.</i>		

7.	Financing facilities <i>Note: the term "facility" includes all forms of financing arrangements available to the entity.</i> <i>Add notes as necessary for an understanding of the sources of finance available to the entity.</i>	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
7.1	Loan facilities		
7.2	Credit standby arrangements		
7.3	Other (R & D lending facility)	1,968	1,968
7.4	Total financing facilities	1,968	1,968
7.5	Unused financing facilities available at quarter end		
7.6	Include in the box below a description of each facility above, including the lender, interest rate, maturity date and whether it is secured or unsecured. If any additional financing facilities have been entered into or are proposed to be entered into after quarter end, include a note providing details of those facilities as well. The Company has a lending facility with Invest Victoria for \$1.968M which has a current interest rate of 2.765%, matures 31 October 2023 and is secured by the Company's R & D Tax Incentive.		

8.	Estimated cash available for future operating activities	\$A'000
8.1	Net cash from / (used in) operating activities (item 1.9)	(1,173)
8.2	Cash and cash equivalents at quarter end (item 4.6)	2,778
8.3	Unused finance facilities available at quarter end (item 7.5)	
8.4	Total available funding (item 8.2 + item 8.3)	2,778
8.5	Estimated quarters of funding available (item 8.4 divided by item 8.1)	2.37
	<i>Note: if the entity has reported positive net operating cash flows in item 1.9, answer item 8.5 as "N/A". Otherwise, a figure for the estimated quarters of funding available must be included in item 8.5.</i>	
8.6	If item 8.5 is less than 2 quarters, please provide answers to the following questions:	
8.6.1	Does the entity expect that it will continue to have the current level of net operating cash flows for the time being and, if not, why not?	
	Answer: N/A	
8.6.2	Has the entity taken any steps, or does it propose to take any steps, to raise further cash to fund its operations and, if so, what are those steps and how likely does it believe that they will be successful?	
	Answer: N/A	
8.6.3	Does the entity expect to be able to continue its operations and to meet its business objectives and, if so, on what basis?	
	Answer: N/A	
	<i>Note: where item 8.5 is less than 2 quarters, all of questions 8.6.1, 8.6.2 and 8.6.3 above must be answered.</i>	

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.

31 October 2022

Date:

By the board

Authorised by:
(Name of body or officer authorising release – see note 4)

Notes

1. This quarterly cash flow report and the accompanying activity report provide a basis for informing the market about the entity's activities for the past quarter, how they have been financed and the effect this has had on its cash position. An entity that wishes to disclose additional information over and above the minimum required under the Listing Rules is encouraged to do so.
2. If this quarterly cash flow report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, *AASB 107: Statement of Cash Flows* apply to this report. If this quarterly cash flow report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standard applies to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.
4. If this report has been authorised for release to the market by your board of directors, you can insert here: "By the board". If it has been authorised for release to the market by a committee of your board of directors, you can insert here: "By the [name of board committee – eg Audit and Risk Committee]". If it has been authorised for release to the market by a disclosure committee, you can insert here: "By the Disclosure Committee".
5. If this report has been authorised for release to the market by your board of directors and you wish to hold yourself out as complying with recommendation 4.2 of the ASX Corporate Governance Council's *Corporate Governance Principles and Recommendations*, the board should have received a declaration from its CEO and CFO that, in their opinion, the financial records of the entity have been properly maintained, that this report complies with the appropriate accounting standards and gives a true and fair view of the cash flows of the entity, and that their opinion has been formed on the basis of a sound system of risk management and internal control which is operating effectively.