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Industry and Market Data

In this Presentation, the Company rely on and refer to certain information and statistics obtained from third-party sources which they believe to be reliable. The Company has not independently verified the accuracy or completeness of any such third-party information. Some data is also based on the good faith estimates of the Company which are derived from our reviews of internal sources as well as the independent sources described above. This Presentation contains preliminary information only, is subject to change at any time and, is not, and should not be assumed to be, complete or to constitute all the information necessary to adequately make an informed decision regarding your engagement with Company.





Welcome & Speaker Introductions Crocker Coulson

Opening Remarks
 Leng Chuang Quek

Presentation

Company Mission & Business Overview

Market Opportunity

Growth Strategy

Innovation

Closing Remarks

Q&A and Wrap Up

Lawrence Law

Dr. Andrei Veksha

Leng Chuang Quek

ΑII













Welcome & Speaker Introductions





Leng Chuang, QUEK
Chairman and Chief Executive Officer
ESGL Holdings Limited



Lawrence, LAW
Chief Sustainability and Strategy Officer
ESGL Holdings Limited



Dr Andrei Veksha
Joint Development Partner
THERMO-CVD Technology
Director, Nanomatics















Leng Chuang, QUEK Chairman and Chief Executive Officer ESGL Holdings Limited





















abbyie Alcon



E‰onMobil □ BASF

















Our Mission | Shareholder and Environmental Value



We create shareholder and environmental value by regenerating industrial waste into circular products using innovative technologies & renewable energy

We collaborate with our partners to reduce their environmental impact and build a more resilient planet.



ESGL is a Winner [Sustainable Solutions, SME Category] of **Singapore Corporate Sustainability Awards, 2022**!















ESGL Delivers Our Mission through a Unique Awardwinning Sustainability-based Framework





















ESGL 4 Growth Pillars





Market Opportunity
with Stable
Growing Recurring
Contracts



Innovative
Culture and
Cutting-Edge
Sustainable
Technologies



Margin Expansion through Circular Products



Balancing Capital
Allocation
through Organic
and Inorganic
Growth







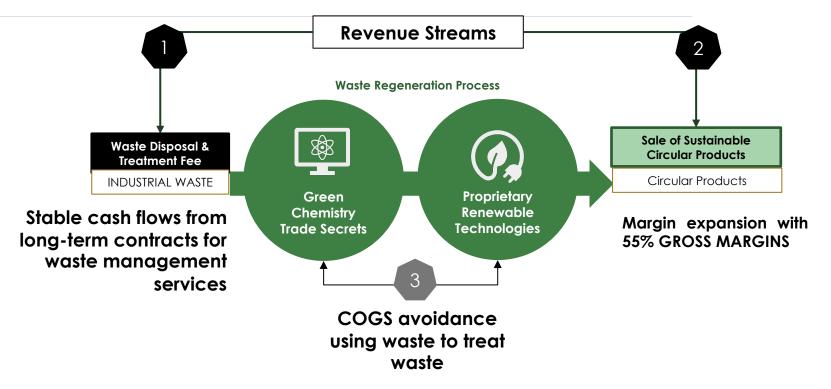






ESGL's Business Model Drives Shareholder Value with 55% Gross Margins and Stable, Recurring Cash Flows











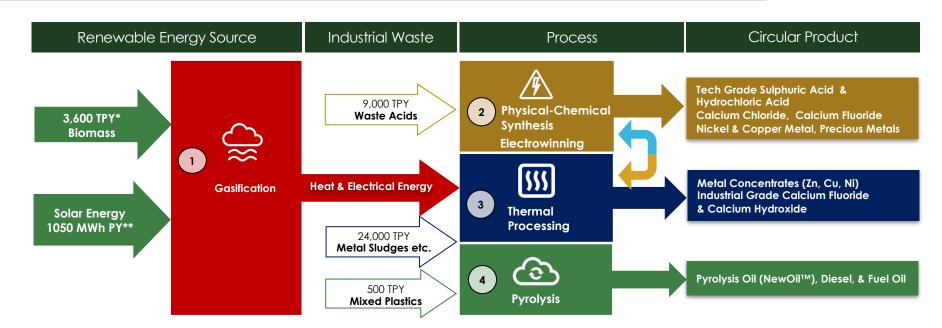






2023 35KTA Capacity Upgrades Completed





^{*}TPY - Tons per Year

Note: Capacity figures are Company estimates











^{**}PY - Per Year





Lawrence, LAW
Chief Sustainability and Strategy Officer
ESGL Holdings Limited













ESGL Strategy for Long-term Profitable Growth







Leading Circular Economy Waste Management Solutions















4 Pillars to Our Strategy





Market Opportunity with Stable **Growing Recurring** Contracts



Innovative Culture and **Cutting-Edge** Sustainable **Technologies**



Margin Expansion through Circular **Products**



Balancing Capital Allocation through Organic and Inorganic Growth













4 Pillars to our Strategy





Market Opportunity
with Stable
Growing Recurring
Contracts



Innovative
Culture and
Cutting-Edge
Sustainable
Technologies



Margin Expansion through Circular Products



Balancing Capital
Allocation
through Organic
and Inorganic
Growth











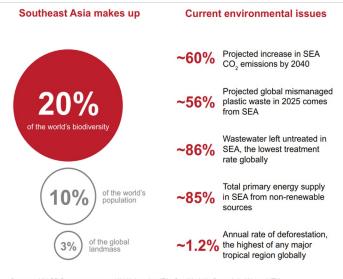




ESGL's Broader Growth Opportunity Lies in Sustainability Gaps in ASEAN



- No ASEAN nations rank among the top 40 in the rankings for attaining Sustainable Development Goals
- Adopting circular practices will meet the regions wider ESG goals and offer multiplier effects on its economy
- Plastic waste and wastewater left untreated are two critical waste categories that require immediate acceleration of sustainability efforts



Sources: UN SDG country reports; UN University; IEA; Our World in Data; Asia Water; NTU

Sustainable Development Goals ranking (of 166)

| 41 49 | Thailand Vietnam |
|----------|---------------------|
| 60 | Malaysia |
| 88 | Brunei |
| 93 | Singapore |
| 99 | Philippines |
| 101 | Indonesia |
| 104 | Myanmar |
| 106 | Cambodia |
| 116 | Laos |

Source: Southeast Asia's Green Economy: Pathways to Full Potential by Bain & Company.









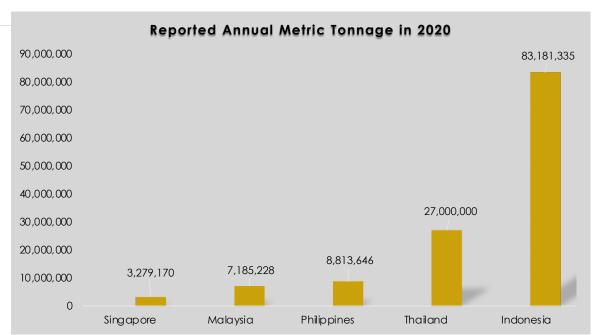




ASEAN has Large Volumes of Hazardous Waste & A Growing Environmental Crisis for ESGL to Access



- Estimated 125 million metric tons of hazardous waste volume in just 5 ASEAN countries
- Limited sustainable waste solutions
- Transition to circular economy estimated to drive economic growth of \$324B in **ASEAN** over the next 25 years*



Reported Hazardous Waste and Other Wastes Generated in 5 ASEAN Countries to the secretariat of the Basel Convention











^{*} Economic Research Institute for ASEAN and East Asia (ERIA)



In Singapore, our Short to Mid Term Opportunity is addressing Low Recycling Rates for Waste Plastics and Ash & Sludge

















..with Combined Opportunity in an underserved Hazardous Waste Treatment Market in Singapore



20%

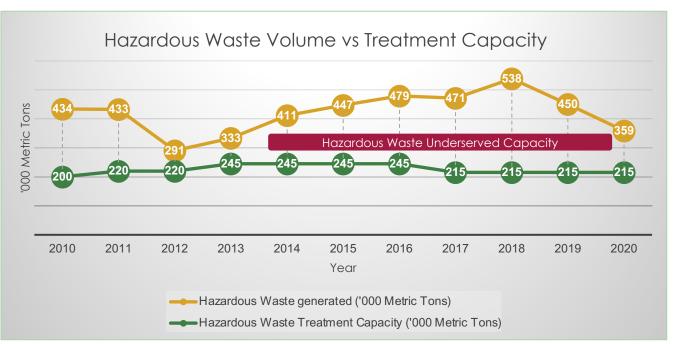
of the world's semiconductor output

7th

largest exporter of petrochemicals

Makes 4

out of the world's top 10 drugs



Singapore's industrial output of hazardous waste averages 450K metric tons per year and rising — underserved by 200K metric tons per annum in terms of installed waste treatment

capacitySource: United Nations EP ERC Basel 2020, NEA* Data and Internal Research/Analysis NEA* = National Environment Agency Singapore













ESGL Estimates Singapore TAM for Industrial Waste is more than US\$360M

















ESGL has the Technological & Environmental **Competitive Advantage to Win**



Current Competitors Methods

ESGL Circular Methods and Output

| Waste Type | Competition Process | Circular Product | ESGL Process | Circular Product |
|---|-------------------------------|------------------|--------------------------------------|--|
| General Waste Plastics (Not Mechanically Recycled) | Incinerate or Landfill | NA | Chemical Recycling (Pyrolysis) | ISCC Circular Pyrolysis Oil |
| Hazardous Waste Plastics | Incinerate | NA | Chemical Recycling (Pyrolysis) | ISCC Circular Pyrolysis Oil |
| Industrial Waste Sludge | Fixation/Landfill | NA | Extraction and Conversion | Base and Precious Metals Industrial Grade Circular Products |
| Hazardous Waste | Incinerate | NA | Heat Capture through incineration | Renewable Energy |
| Industrial Wastewater | Treatment/Incinerate/Landfill | NA | Evaporation with Renewable Energy | Circular Industrial Water |
| Spent Acids | Treatment And Dispose | NA | Chemical Synthesis | Circular Tech Grade Acids |
| Energy Source used for processes | | | | |
| Fossil | YES | | NO | |
| Solar | PARTIAL | | YES | |
| Biomass | NO | | YES | |
| Source: ESGL Waste Management Market Analysis 2022 | | | 6 MAS SECURION 7 MINISTRALINA | 8 NOTE OF AND DESCRIPTION OF AN ADDRESS OF A STATE OF AN ADDRESS OF A STATE OF AN ADDRESS OF A STATE OF A STAT |









ESGL Serves Leading Global Customers Across Strategic Verticals



Petrochemical



Semi-Conductor



Pharmaceutical



Others















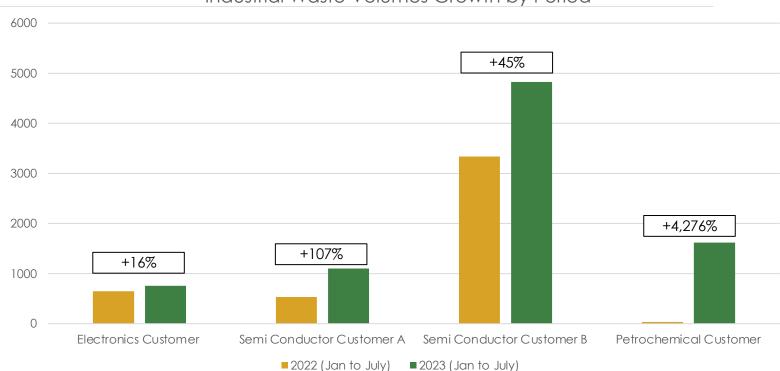




ESGL is winning with Industrial Waste Volumes experiencing double-digit growth from 2022 to 2023 (Jan to July)







Source: ESGL Auric ERP Data













4 Pillars to our Strategy





Market Opportunity
with Stable
Growing Recurring
Contracts



Innovative
Culture and
Cutting-Edge
Sustainable
Technologies



Margin Expansion through Circular Products



Balancing Capital
Allocation
through Organic
and Inorganic
Growth













ESGL's Fully Integrated, Innovative, and Sustainable Circular Economy Waste Management Solution

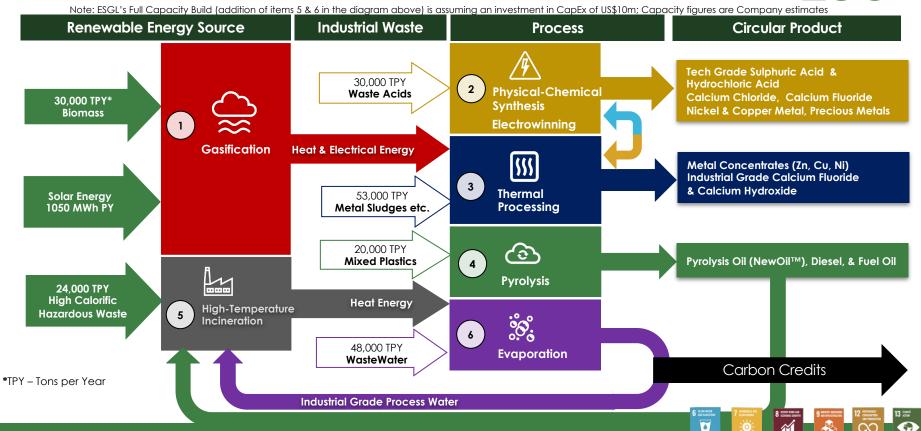






ESGL has Diverse and Targeted Waste Management Solutions for Key Industries, enabled for the circular economy







...Sustainability Certified, and IP Protected







ISCC PLUS Certificate

Certificate Number: ISCC-PLUS-Cert- DE129-35324015

TÜV NORD CERT GmbH

Am TÜV 1,

45307 Essen, Germany

certifies that

Environmental Solutions (Asia) Pte Ltd 101 Tuas South Avenue 2

Singapore 637226

Singapore

complies with the requirements of the certification system

ISCC PLUS

(International Sustainability and Carbon Certification)



Request for Grant of Patent [PF1]

Application Number: 10202300752V

e-File Reference No.: E202303210220XPF1WY

My Reference

My Reference: ESAHWRT2023-SMUG

Specifications

| S /N | File Name | File Type |
|---------|---|------------------------------|
| 1 | Technical DataSheet - ESAHRWT-SMUG.pdf | Supporting Document |
| 2 | SM-5.6 System (HRWT) Heat Recovery and Water Treatment Process Diagram.pptx.pdf | Description (without claims) |

Total No. of Pages: 29

Application Type

Application Type: Filing for a new Patent application

Title of Invention

Title of Invention: ESA Heat Recovery and Water Treatment (HRWT)

Declaration of Priority



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ESGL Regenerates Waste from Different Industries to Create Valuable Sustainable Circular Products in Demand



Waste



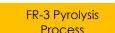
Waste Plastics





Spent Catalyst

Waste Acids





Wastewater Sludge

Linxens **EPSON**

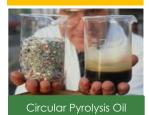
ExonMobil

G-2 Thermal



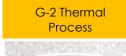
FSGI Process

Circular Product

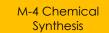


G-2 Thermal **Process**











Customer







Circular Copper

Concentrate





End-User Beneficiaries























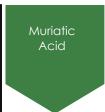


Continue to Grow Portfolio of Circular + Decarbonization Products to Expand Margins and Environmental Value

















Heat Energy Recovery from Thermal Decomposition of Hazardous Waste

















Current

Future

Derivation of Carbon Credits* as a Product

Evaporation of wastewater avoids forming Methane Gas in traditional Biological Treatment System Recovery of waste heat from Incineration displaces fossil fuels for heat energy for Evaporation

* Subject to final Project Design Document (PDD) in line with GHG Protocol











Carbon

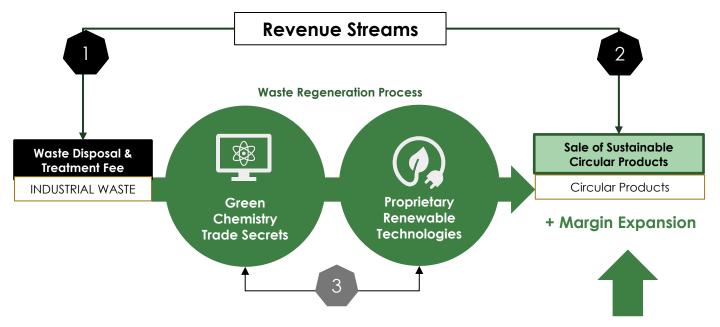
Credits





An Expanded Portfolio of Circular Products Regenerated from Waste, Results in Margin Expansion













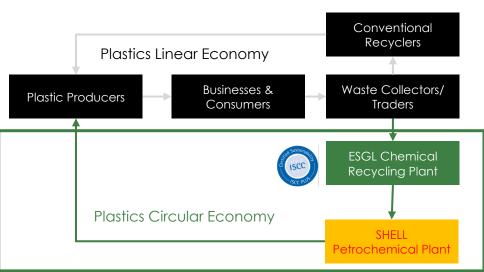




Case Study: ASEAN's Plastics Circular Economy







"In Asia, Shell & Environmental Solutions Asia (ESA) signed an exclusive pyrolysis oil supply agreement for 12KT per annum. This deal illustrates the ongoing expansion of the pyrolysis oil market in Asia"

Source: cefic.org: Powering the plastic circular economy















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Multi-Year Organic Growth Strategy

Design & Build To Commercialise Set New ESGL Strategic Vision 2020

Procured &

Solutions

Built Circular

Designed plants & systems for full circularity

2019

Build Brand & First Mover Advantage Business

> 2021 2022

 Secured circularity-based Iona-term contracts across industrial sectors

Expand Capacity & Build Up Hazardous Waste Capability

2023

Upgrade existing

solutions

capacity

Build carbonneutral incinerator for hazardous waste

Access Underserved Hazardous Waste Market

2025

- Build Carbon Credits Revenue Stream
- Secure Technology **Patents**
- Establish Singapore as regional leader for new sustainability solutions

Expand Operations Beyond Singapore



- · Grow with our MNC clients across ASFAN
- Leverage circular economy commitments and MNC supply-chain **ESG** mandates











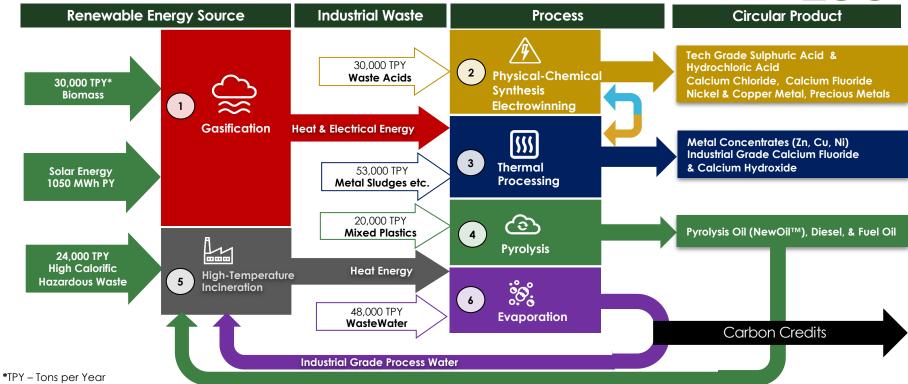






Technology and Capacity Portfolio Investment to capture underserved demand opportunities





Note: ESGL's Full Capacity Build (addition of items 5 & 6 in the diagram above) is assuming an investment in CapEx of US\$10m; Capacity figures are Company estimates







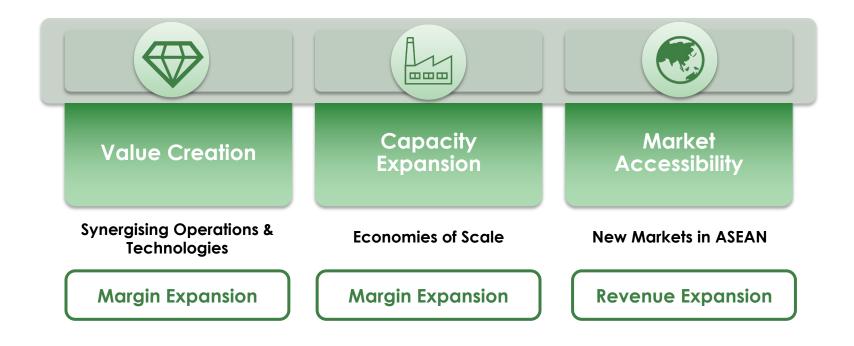






Accelerated Inorganic Growth Through M&A Drivers

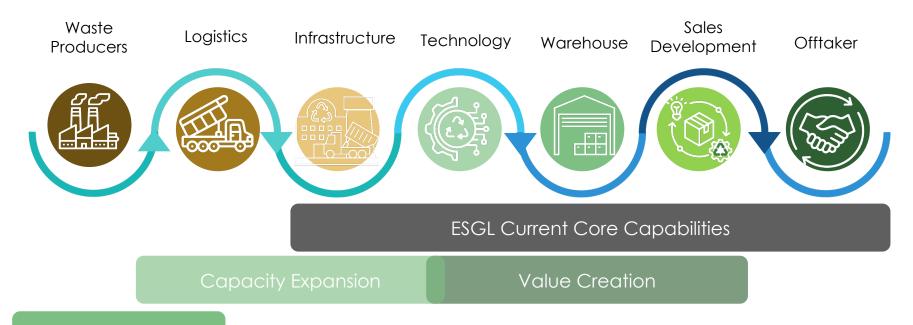






With the Objectives of Strengthening Our Capabilities and Market Access to Deliver Shareholder Value through Vertical Integration





Market Accessibility













CASE STUDY: Long Term Value Creation through Technology Partnerships







Maximizing value recovery from plastic waste







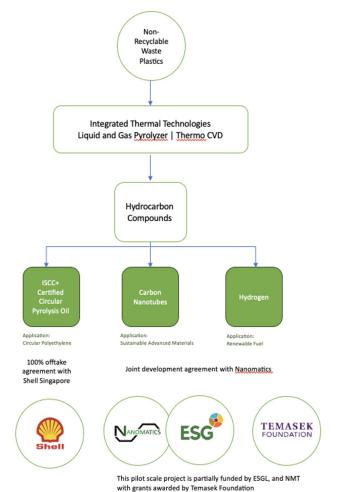








A Testament to our **Innovative Culture** with the world's first integrated system to produce sustainability certified pyrolysis oil, carbon nanotubes and hydrogen from unrecyclable waste plastics (Commissioning Q4 2023)













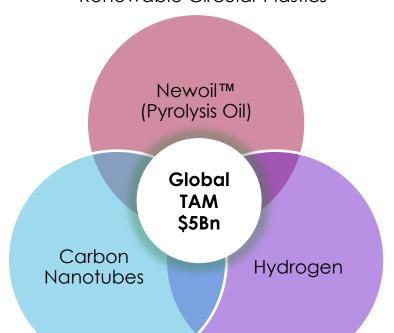




FR-4 Integrated System Will Produce Sustainable Materials with Multiple Applications



Renewable Circular Plastics



Renewable Fuel

Source: Global Market Insights and Polaris Market Research

Electric Vehicles)

Next Generation

Renewable Materials

(eg Biomedical, Consumer Goods,















FR-4 Integrated System will Deliver 8X More Value vs Current and over 40X vs Competitive Methods







| | FR-4 Integrated System | | Current Traditional Methods | | |
|---|---|--------------------------------|-----------------------------------|----------------------|---------------------------------|
| | Thermo-CVD | ESGL FR-3 Pyrolysis | Waste-to-energy (Incineration) | Mechanical recycling | Solvent-based purification |
| Usable feedstock (% of plastic waste) | Mixtures (Up to 100%) | PP, LDPE, HDPE (Up to ~60%) | Mixtures (Up to 100%) | ~10% | PP, PS, LDPE/PA (Up to ~35%) |
| Recovered products | Renewable Fuel Sustainable Circular Feedstock Carbon Nano-materials | | Electricity | Re-used polymers | Re-used polymers |
| Value recovered from plastics waste per ton | >\$9,000 | | \$600 | \$200-500 | \$200-500 |

Source: ESGL Internal Analysis and Nanomatics Value Chain Analysis

















Dr Andrei Veksha Joint Development Partner THERMO-CVD Technology Director, Nanomatics

















A Global Plastics Waste Crisis



Diverse plastic waste composition.

2015



Contamination by food, paper, inks, etc.



Expensive to collect and process. The value of products is too low to cover the recycling cost.



| 2015 | Technological University on plastic waste upcycling |
|------|--|
| 2021 | Lab-scale technology development was completed |
| 2021 | Nanomatics Pte Ltd was founded to scale up the technology and create positive impact on sustainability |

Start of research at Nanyana















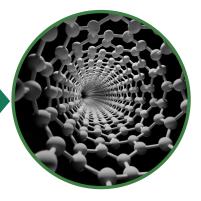


Great Opportunity to Upcycle Plastic Waste Deemed Unrecyclable into High-value Products





THERMO-CVD Technology





Sequestered carbon (carbon nanotubes)



Robust process

Contaminated mixed plastic waste

Suitable for:
Mixed household waste
Marine plastic litter
Flexible laminate packaging



High product value

Profitable waste management model Incentivize plastic treatment



Green hydrogen

Clean energy source

Cleaner than oil and natural gas from waste















A New Era in Plastics Waste Management





TRILOGY OF SUSTAINABLE CIRCULAR PRODUCTS

Low carbon footprint

Reduced fossil resource consumption









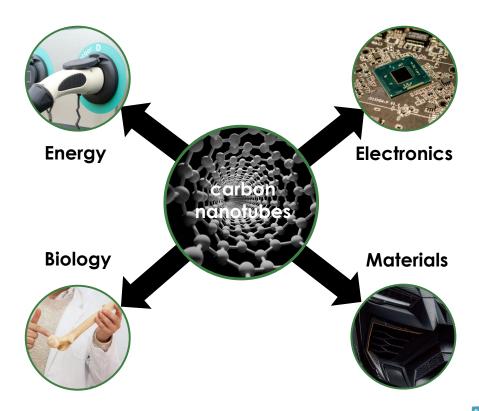






Infinite Applications of Carbon Nanotubes

















World's First Ground Breaking Integrated Plant in 2023



2023

Temasek
Foundation
is financing our
demonstration plant
in Singapore.



2024 - 2027

Commercialization and scale up (2024-2027)

Plastic waste reduction: 20,000 t/year

Products: ISCC Certified Pyrolysis Oil, Carbon Nanotubes and Hydrogen

Environmental Solutions Group Holdings Limited Enters Joint Development Agreement with Nanomatics Pte Ltd to Advance Sustainable Plastic Waste Recycling into Pyrolysis Oil, Carbon Nanotubes and Hydrogen

Overseas expansion (2027)













A Synergistic Joint Development Program to Deliver Shareholder and Environmental value









Dr. ANDREI VEKSHA

Nanotechnology, process
engineering, chemical
recycling and project
management.
Ph.D. in Environmental Science.



External Advisory Panel for Environmental Sustainability (MINDEF, Singapore). Resource management and life cycle assessment. Ph.D. in Chemical Engineering.

Dr. GRZEGORZ LISAK



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prosecution and
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Certificate in Intellectual
Property and Technology Law.



International legal, corporate governance, corporate law, mergers and acquisition, litigation and due diligence. Bachelor of Corporate Law.

SEAN GETHIN



LENG CHUANG QUEK
Environmental Solutions Group
Limited
CEO & Chairman



LAWRENCE LAW
Environmental Solutions Group
Limited
Chief Sustainability & Growth
Officer; Executive Director

















Leng Chuang, QUEK Chairman and Chief Executive Officer ESGL Holdings Limited













ESGL will Enable Sustainable Profitable Growth with Environmental Returns





Market Opportunity
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Margin Expansion through Circular Products



Balancing Capital
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ESGL must create Shareholder, Stakeholder and Environmental Value













