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Innovación en Tecnología Verde para la Industria Minera  
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21 al 23 de mayo, 2024  
Provincia de San Juan, Argentina



# ROADMAP TO **NET ZERO**

OUR STRATEGY TO REDUCE

# CARBON EMISSIONS



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Website: [www.anglogoldashanti.com](http://www.anglogoldashanti.com)

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# GOLD GLOBAL MINING'S PORTFOLIO

## Americas

Nevada  
Silicon  
Merlin  
North Bullfrog  
Mother Lode  
Rhyolite  
Transvaal

Colombia  
Gramalote  
Quebradona  
La Colosa

Brazil  
Serra Grande

Brazil  
GGM Mineração  
(Cuiaba & Corrego do Sitio)

Argentina  
Cerro Vanguardia

## Continental Africa

Guinea  
Siguri

Ghana  
Belgium  
Iduapriem

DRC  
Kibali

Tanzania  
Geita

## Australia

Australia  
Sunrise Dam

Australia  
Tropicana

Operations  
*(bubble size = relative production)*

Projects

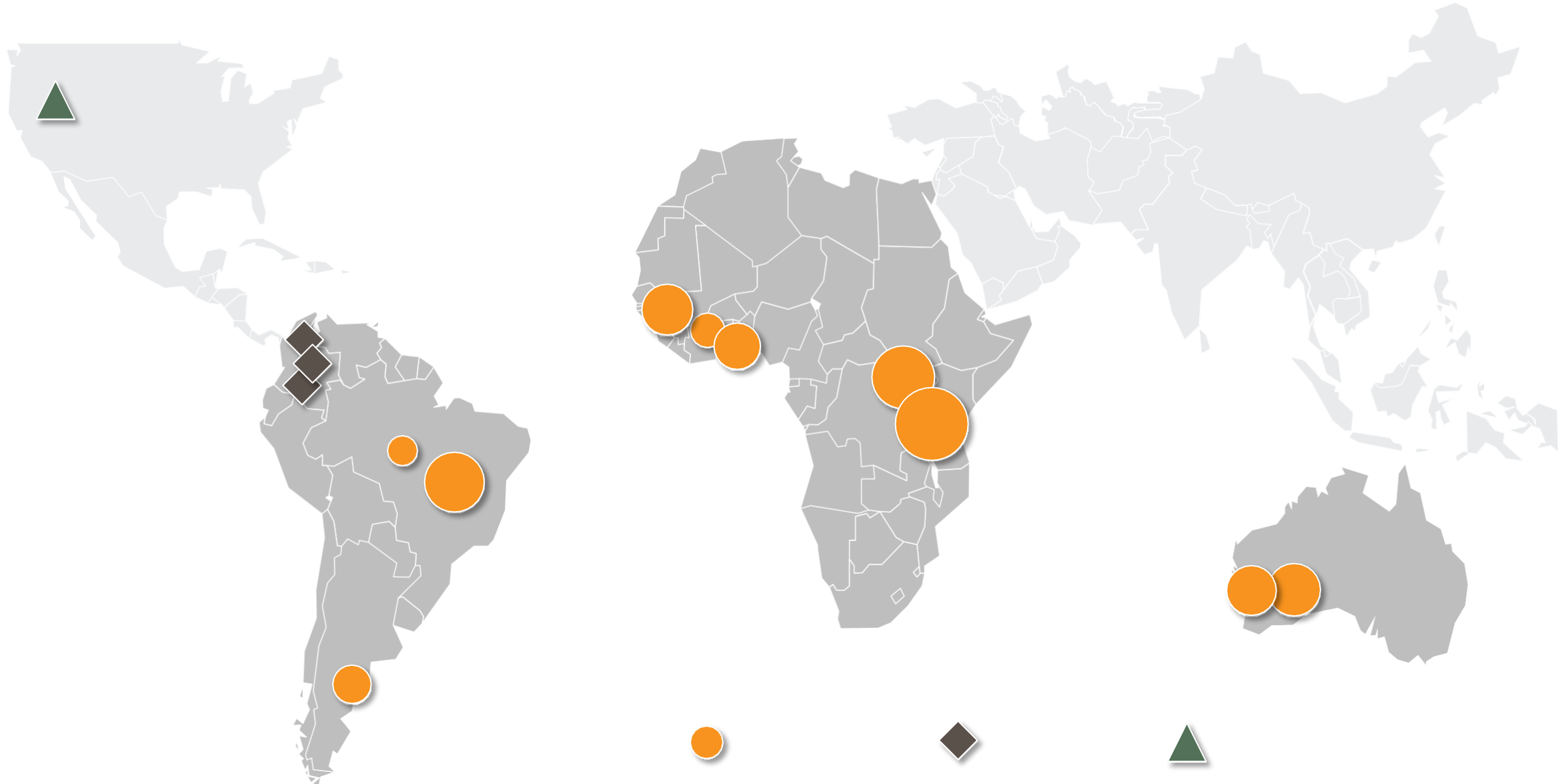
Greenfields

| 2023 at a Glance*                             |               |
|---|---------------|
| Gold Produced                                 | 2,635 Moz.    |
| People Employed <sup>(1) (2) (3)</sup>        | 33,658        |
| Total Cash Costs**                            | \$ 1,108 /oz. |
| Capital Expenditure <sup>(2)</sup>            | \$1,127 m     |
| Total Mineral Reserve <sup>(2)</sup>          | 28.1 Moz.     |
| Total Community Investment <sup>(2) (3)</sup> | \$ 18.84 m    |

Gold Global Mining is an independent, global gold mining company with a **diverse, high-quality portfolio** of operations, projects and exploration activities across **nine countries** on **four continents**.

Refer to the Company's corporate profile at <https://www.anglogoldashanti.com/company/corporate-profile/> and <https://reports.anglogoldashanti.com/23/at/#glance>

\*All numbers include Corregio do Sitio which was placed on care and maintenance in August 2023. \*\*For a reconciliation of these Non-GAAP financial measures, please refer to "Appendices: Non-GAAP Disclosure – Reconciliations", only relating to producing assets. (1) Average employed, includes contractors; (2) Includes projects; (3) Includes corporate and non-gold producing subsidiaries.



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# CERRO VANGUARDIA

*CVSA has been in operation since 1998...*

## Operational Profile



## Summary

### History

- Started operations in 1998 (First Doré Bar).

### Ownership

- AngloGold Ashanti has a 92.5% share.
- Fomicruz SE, a state-owned company holds 7.5%.

### Location

- 110 Km NNW of Puerto San Julián in the province of Santa Cruz, ~2,300 Km from Buenos Aires, Argentina's capital.

### Deposit

- Epithermal, low-sulphidation veins, containing gold and silver.

### Mine

- Multiple small open pits with high stripping ratios
- Multiple narrow-vein underground mines - Sublevel Stopping - Started production in 2010.

### Process Plant

- Mill throughput ~ 1.25 Mtpa.
- Heap Leach ~ 1.75 Mtpa.
- Production 2023 – Au: 152 Koz / Ag:~ 4.4 Moz.

*...producing ~152 Koz. of gold and ~4.4 Moz. of silver in 2023.*



# WHAT DOES REDUCING OUR CARBON EMISSIONS MEAN?

*Reducing our carbon emissions...*



## Our commitment

- A **30% absolute reduction** in Scope 1 & 2 greenhouse gas (GHG) emissions\* from energy use by 2030\*\*
- **Net zero Scope 1 and 2 GHG emissions by 2050** using renewable-energy technology to deliver full electrification of our operations
- **Collaboration** with targeted suppliers to reduce material **Scope 3 GHG** emissions

Using 2021 carbon emissions as our baseline:

**1.4 Mt CO<sub>2</sub>e**

Targeting a

**30%**

net reduction by 2030 requires a

**46%**

absolute reduction from our forecast emissions

*\*Emissions from the consumption of fossil-based energy is the main source of carbon emissions for Gold Global Mining*

*\*\* 2021 Baseline: Combined Scope 1 & Scope 2*

*...delivers value for our business, our industry and our stakeholders.*



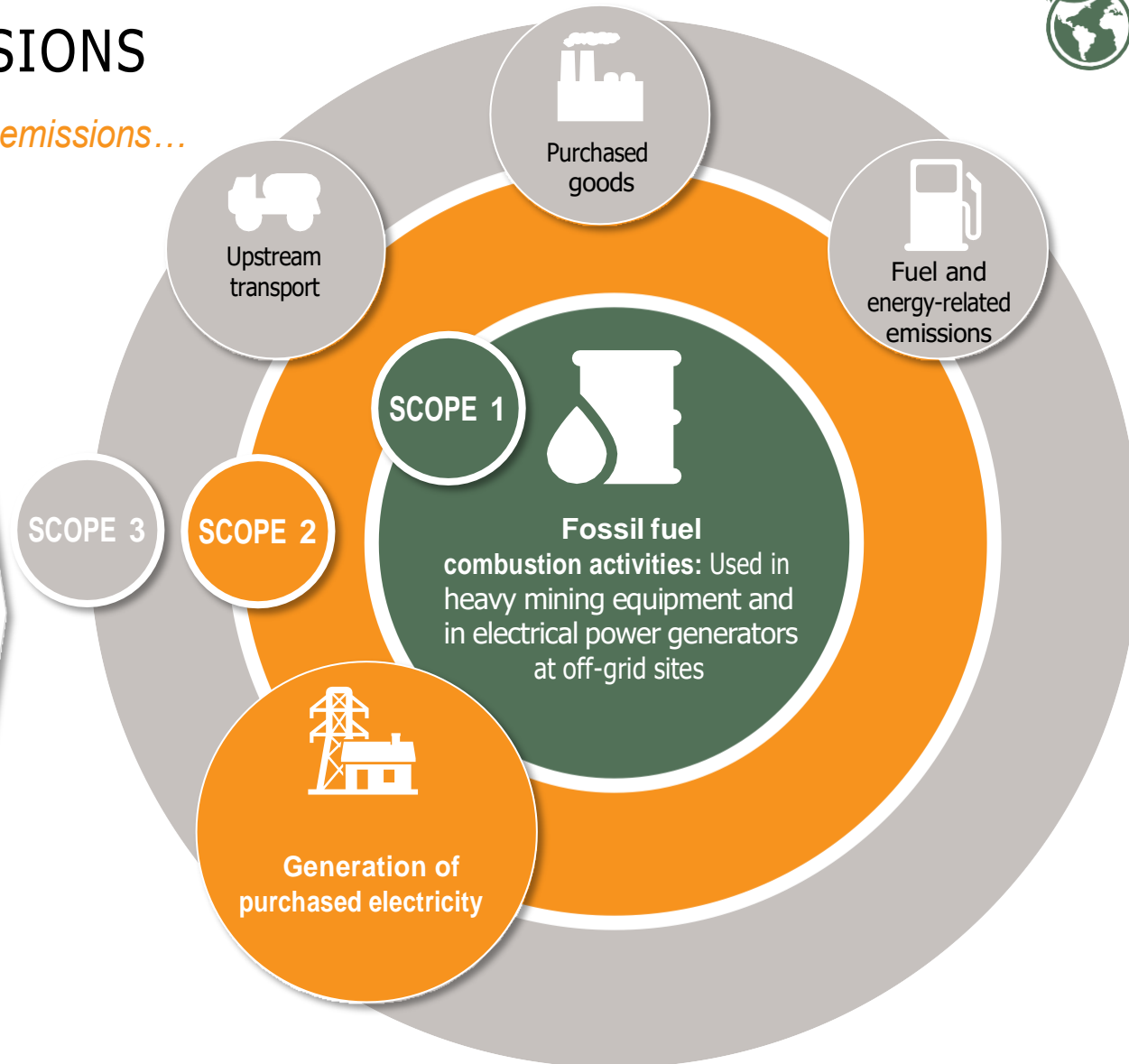
# SCOPE OF DIRECT AND INDIRECT EMISSIONS

*Our Roadmap to Net Zero focuses on all sources of energy-related emissions...*

**Scope 1: Direct emissions** from operations that are owned or controlled by Gold Global Mining; primarily emissions from **fossil fuel combustion** activities.

**Scope 2: Indirect emissions** from generation of purchased **electricity** consumed by managed operations.

**Scope 3:** Indirect emissions from our **Supply Chain**; our material Scope 3 emissions occur in just three of the fifteen GHG Protocol categories, namely purchased goods and services, fuel and energy related activities and upstream transport.



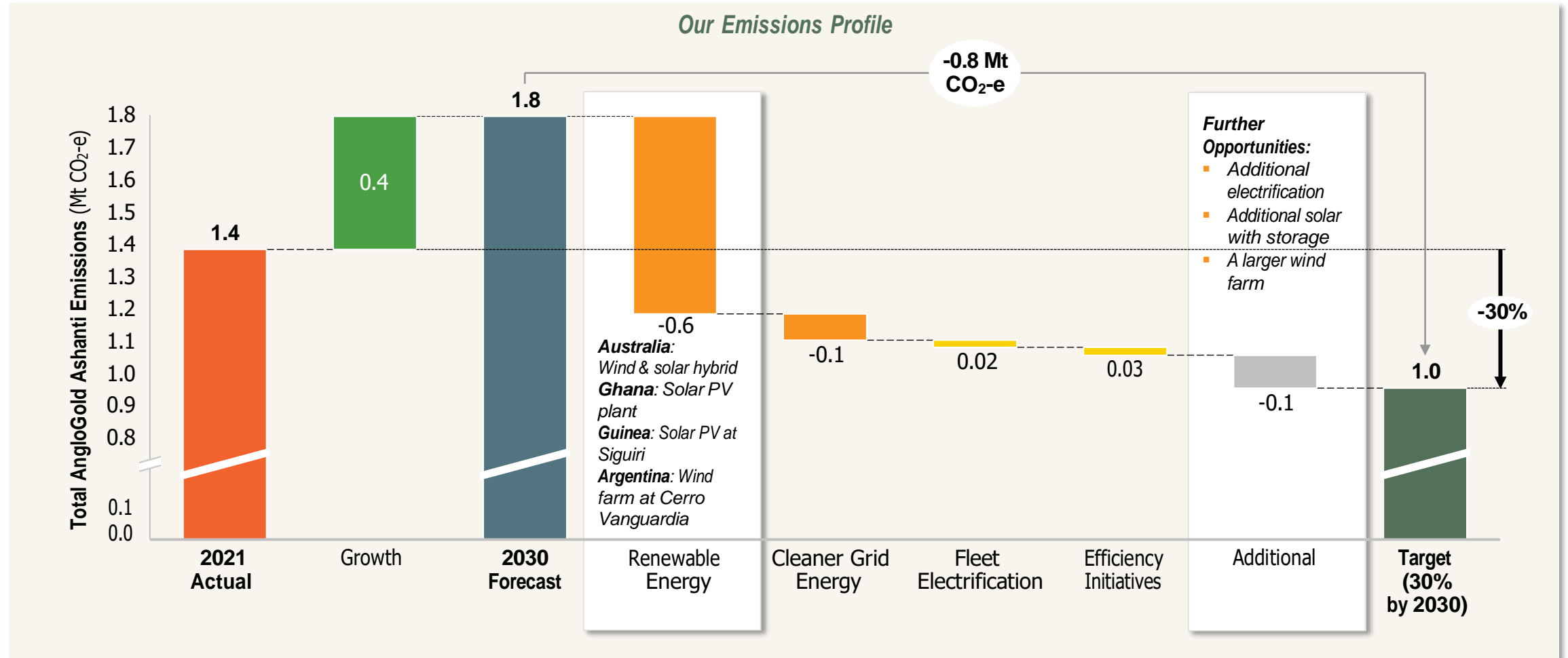
*...through a combination of renewable energy projects, fleet electrification and lower-emission power sources.*





# WE HAVE SET THE TARGET AND IDENTIFIED OPPORTUNITIES

Initial estimates show we have the opportunity to reduce absolute GHG emissions...

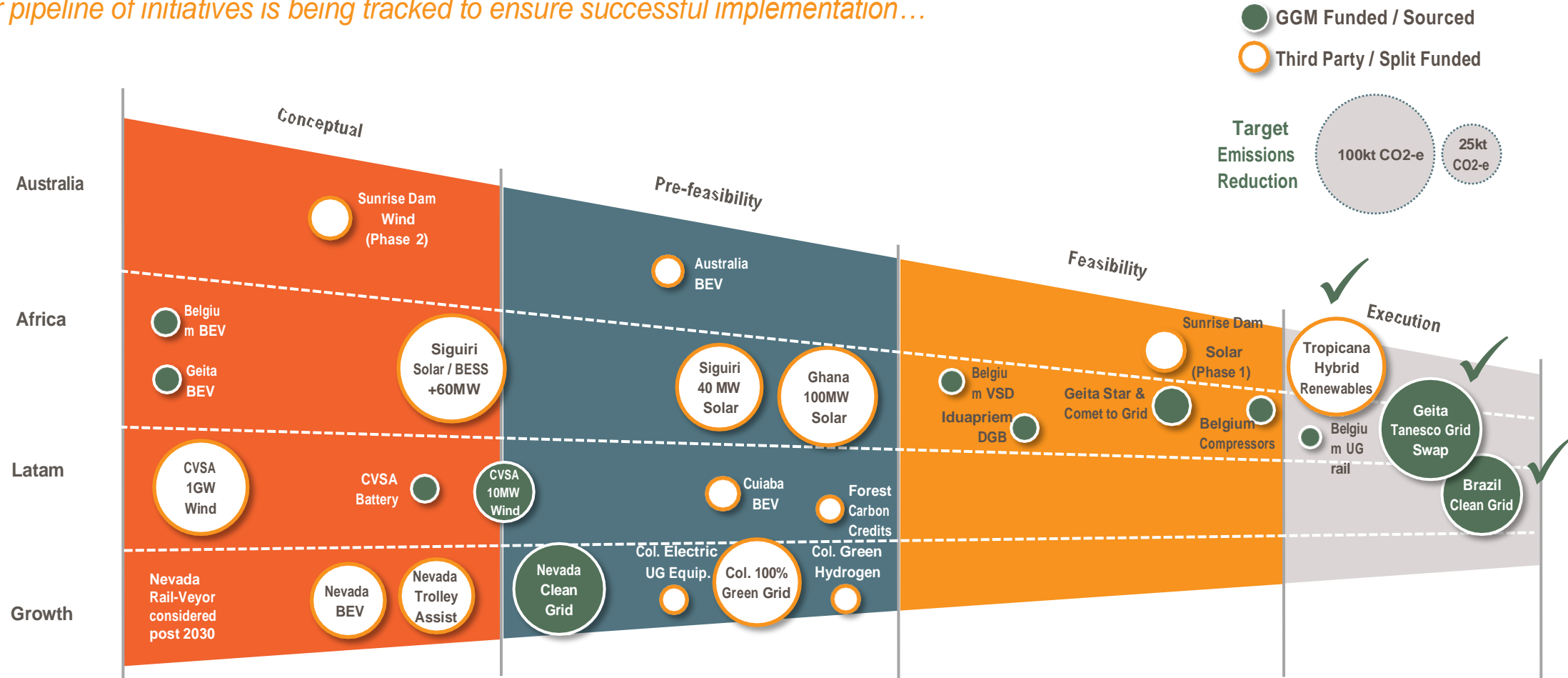


...by ~0.8 Mt CO<sub>2</sub>-e to ~1 Mt CO<sub>2</sub>-e by 2030.



# CARBON EMISSIONS REDUCTION PIPELINE

Our pipeline of initiatives is being tracked to ensure successful implementation...



...with the majority delivering benefits planned before 2030.



# TROPICANA HYBRID RENEWABLE PLANT

*Tropicana has started construction of the wind turbine plinths...*

*Tropicana Construction Progress*



## Summary

- The Tropicana's Hybrid Renewable Plant is expected to provide **~50% clean energy** offsetting **~65 Ktpa CO<sub>2</sub>-e** in emissions through:



**24 MW**

Wind Turbines



**24 MW**

Solar Plant



**14 MW**

Battery

- We signed an agreement with **Pacific Energy** to construct the **renewable wind and solar** project, while continuing to operate the combined renewables-gas power station under a **10-year build-own-operate contract**.
- The renewables integration is expected to almost **eliminate Tropicana's diesel** consumption for power generation and **reduce natural gas consumption** for power generation by approximately **50%**.

*...with completion planned for January 2025.*



# GEITA CONNECTION TO THE NATIONAL GRID

*General construction is nearing completion...*

*Connection to the Tanesco Grid in 2024*



## Summary

- Over the last 2 years Geita has worked with the national power provider (Tanesco) which has built infrastructure (power pylons and transmission lines) while Geita has constructed the switchgear to enable the site to link into the power grid.
- Tanesco's generation system largely comprises hydro and thermal electricity generation.
- Connecting into the Tanesco grid is expected to halve the cost of Geita's power generation and reduce GHG emissions by 50%.
- The swap to the national grid is on track to take place in 2024.
- Tanzania continues to invest in upgrading the grid to mitigate instability issues as a result of the dry season (May – October) by adding an additional 400 MW via a hydro-scheme.

*...with Geita planned to operate off the grid in 2024.*



# BEV SHARED LEARNINGS AT SUNRISE DAM & CUIABA

*GGM is trialling an electric truck at Sunrise Dam and an electric loader at Cuiaba...*

*Sunrise Dam – BEV Truck Trial*



**Largest BEV underground mining truck begins trials at Sunrise Dam**

*Cuiaba – BEV Loader Trial*



## Summary

### *BEV Shared Learnings Platform Established:*

- A three-party agreement between **AngloGold Ashanti, Barminto and Sandvik** was reached to trial a **65 tonne battery-electric underground mining truck** at Sunrise Dam.
- The prototype truck, one of the world's largest, will produce zero diesel emissions underground and is expected to generate 80 percent less heat.
- **Cuiaba** is trialling a **loader** with a view to replace all its loaders with electric equipment before 2030. The option to replace diesel trucks with electric versions is also being pursued.

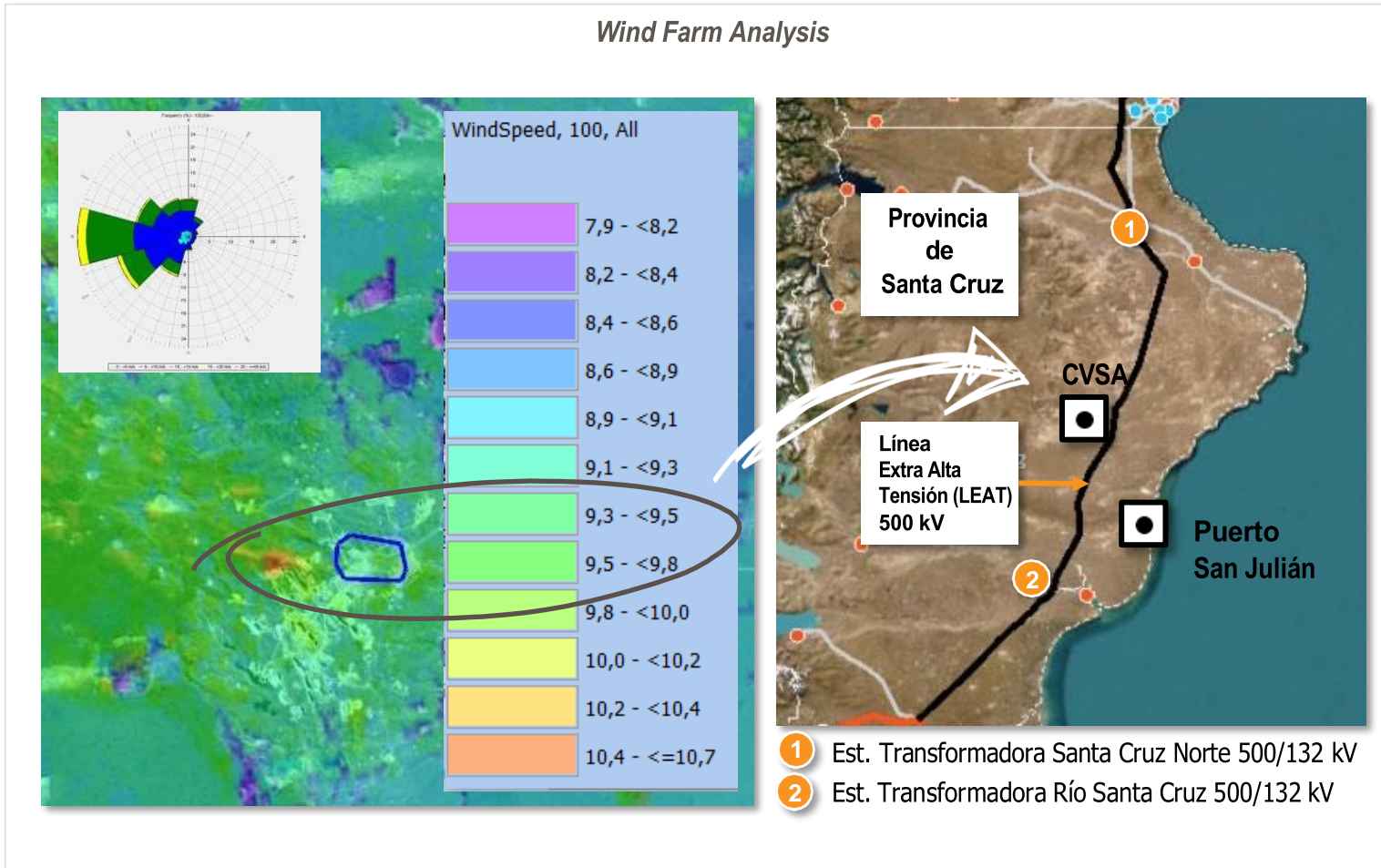
This **platform** will promote sharing of best practice in the areas of **operational readiness, infrastructure design and regulatory compliance.**

*...which will promote sharing lesson learnt.*



# CVSA WIND FARM

The viability of installing wind turbines at CVSA has the potential to reduce emissions...



**Opportunity Overview**

- CVSA is completing a **Strategic Asset Review** to maximise the long-term value of the site.
- This analysis will consider **additional gold resources** and the potential for regional exploration opportunities to **increase the life of mine** at CVSA.
- The **outcome** of this study will inform the **viability of installing wind turbines** at the site.
- According to analysis, the **wind speed** in the area immediately surrounding the site (<3 km) is estimated to be between **9.3 m/s and 9.8 m/s at 100 m height** - similar to Bahía Blanca and Puerto Madryn.

...and analysis is continuing.



# APPENDIX: NON-GAAP DISCLOSURE - RECONCILIATION

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