GoSí Energy case studies

Three operating mines. Solar and batteries, and wind at Agnew.
These are not GoSí plants.
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Agnew Gold Mine
Gold Fields. An 18 MW wind farm (five turbines), a 4 MW photovoltaic system and a 13 MW / 4 MWh battery, with gas and diesel generation as backup.

The Gold Fields / ARENA final report (2022) describes a forecast annual average of about 54% renewable energy, more than 85% in favourable weather, and a forecast cut of about 40,000 tonnes of CO2e a year.

Dollar savings, diesel litres and payback are not stated here, because that report does not give them.

Source: Gold Fields; ARENA, Gold Fields Agnew Gold Mine Final Report (2022).

Fekola

B2Gold, Mali. Phase 1 of the hybrid power plant, integrated in April 2021: 30 MW of solar and a 17.3 MW / 15.4 MWh battery, working alongside the existing heavy-fuel-oil generators.

Up to 75% of the mine’s daytime electricity from solar. In 2024 the plant saved around 13 million litres of heavy fuel oil and about 38,000 tonnes of CO2e (B2Gold).

Sources: B2Gold; BayWa r.e.

Granny Smith

Gold Fields. An 8 MW photovoltaic system with a 2 MW / 1 MWh battery, commissioned in 2020 and integrated with gas generation.

Savings, CO2 and payback figures are not shown. A Gold Fields or ARENA source for those Granny Smith figures was not confirmed, so they are left off this document.