Proposal Content Document

Table 1: General proposal content description

Proposal title	St Ives Renewable Energy Project		
Proponent name	St Ives Gold Mining Company Pty Limited (SIGMC)		
Short description	The St Ives Gold Mining Company Pty Ltd (SIGMC) proposes to construct a hybrid energy-source powered microgrid on the existing St Ives Gold Mine (SIGM) site, which is located to the South of the town of Kambalda East.		
	The SIGMC operation currently consists of land and lake based mining activity on Lake Lefroy and adjacent land. The operation includes the discharge of mine dewatering to the lake surface, and the construction of mine infrastructure, including open pits, underground operations waste rock dumps and tailings storage facilities.		
	The St Ives Hybrid Microgrid Project (SIHMP - the Project) will consist of a wind farm comprising wind turbine generators (WTG's), a solar farm, thermal generation plant, battery energy storage system (BESS), new substation and associated transmission, power conditioning and supporting infrastructure.		

Table 2: Proposal content elements

Proposal element	Location / description	Existing Proposal extent, capacity or range	Proposed amendment	Combined extent, capacity or range	
Physical elements					
Existing mine elements, including:					
Open Pits					
 Underground portals and mining 	Figure 1a, 1b,		No shares		
 Haul roads and access roads 	1c		No change		
 Waste Rock Landforms (WRLs) 					
 Topsoil stockpiles 		Up to 4,061 ha of		Up to 4,061 ha of disturbance	
Existing processing elements, including:		cluding: lake-based	disturbance for lake-based operations, 5,085		for lake-based operations, 5,085 ha of
Ore stockpiles		ha of disturbance		disturbance for	
 Processing Plant (Lefroy Mill) 		for land based operations, and 110 ha of riparian	No change	land based operations, and 110 ha of	
 Tailings storage facilities 		zone disturbance within a development		riparian zone disturbance within a	
Heap Leach		envelope of 45,585 ha		development envelope of	
 Process water ponds 		40,000 Ha		45,589 ha	
Existing infrastructure elements, including:					
 Accommodation village 					
 Buildings, including offices, ablutions and crib rooms 			No change		
Supporting infrastructure					

Proposal element	Location / description	Existing Proposal extent, capacity or range	Proposed amendment	Combined extent, capacity or range
Renewable infrastructure, including:			Increase of 2.0 hs	
 Solar Farm, Thermal Generation Plant and BESS 	Figure 2	Up to 4,061 ha of disturbance for lake- based operations, 5,085 ha of disturbance for land based operations, and 110 ha of riparian zone disturbance within a development envelope of 45,585 ha	Increase of 3.9 ha for supporting infrastructure	Up to 4,061 ha of disturbance for lake-based operations, 5,085 ha of disturbance for land based operations, and 110 ha of riparian zone disturbance within a development envelope of 45,589 ha
 Wind farm (including contingency) 				40,000 Ha
• Supporting Infrastructure				
Construction elemen	nts			
Concrete batching plants	N/A	N/A	N/A	N/A
Operational elements	S			
Groundwater abstraction for water supply and mine dewatering	A number of groundwater extraction bores across the site	Abstraction of up to 34.015 GL/a	No change	Abstraction of up to 34.015 GL/a
Management of surplus water	Discharged to lake Lefroy	Discharge of up to 30,000,000 tonnes per annum to Lake Lefroy	No change	Discharge of up to 30,000,000 tonnes per annum to Lake Lefroy
Waste rock backfilling	N/A	A minimum of approximately 95 million tonnes and backfilling of sterilised pits	No change	No change

Processing throughput capacity	N/A	Up to 9,000,000 tonnes per annum	No change	No change
TSF capacity	Figure 1a, 1b, 1c	Up to 9,000,000 tonnes of tailings deposited per annum.	No change	No change
Proposal element	Location / description	Existing Proposal extent, capacity or range	Proposed amendment	Combined extent, capacity or range
Wind energy production	Figure 1a, 1b, 1c	Up to 10 x 6 to 7MW* Wind Turbine Generators Total approx. 60MW Wind Farm	N/A	No change
Solar farm energy production	Figure 1a, 1b, 1c	40MW Nominal	N/A	No change
Thermal Generation Plant	Figure 1a, 1b, 1c	40MW Nominal	N/A	No change
Battery Energy Storage System (BESS)	Figure 1a, 1b, 1c	30MW Nominal	N/A	No change
Overhead powerlines	Figure 2	33kV and 66kV	66kV and 132kV and increase footprint by 3.9 ha	

Proposal elements v	Proposal elements with greenhouse gas emissions				
Construction elements:					
Emissions	Original Proposal	Proposed Amendment			
	(tCO ₂ -e/per annum)	(tCO ₂ -e/per annum)			
Scope 1	4,282	No change			
Scope 2	NA	No change			
Scope 3	8,815.5	No change			
Operation elements:					
Emissions	Original Proposal	Proposed Amendment			
	(tCO ₂ -e/per annum)	(tCO ₂ -e/per annum)			
Scope 1	21,949	No change			
Scope 2	0	No change			
Scope 3	NA	No change			
Rehabilitation					
The post-construction phase rehabilitation may be restricted to construction laydown areas no longer required in the operational phase.					
SIGM is committed to the rehabilitation of all disturbed areas to be agreed final land use(s), this is extended to include disturbance and any potential contamination management throughout the operational life expectancy of Project specific infrastructure.					
Due to the nature and relatively small/narrow SIHMP operational footprint, post construction phase rehabilitation may be restricted to small construction laydown areas utilised during construction phase only but are no longer required during the operational phase.					
Commissioning					

Project commissioning is planned for Q3 2024.

Decommissioning

If decommissioning and demolition is required, phased activities are to be supported by suitably qualified and experienced specialists and documented reports.

Other elements which affect extent of effects on the environment				
Proposal time*	Maximum project life	N/A	~29.5 years from granting of all required regulatory approvals	~29.5 years from granting of all required regulatory approvals
2024-2025	Construction phase	N/A	~ 1.5 years	~ 1.5 years
2025-2050	Operations phase	N/A	25 years	25 years
2053	Decommissioning phase	N/A	~ 3 years post operations	~ 3 years post operations

* Proponents should only provide realistic timeframes to avoid unnecessary change to proposal applications at referral (section 38C), assessment (section 43A) or post assessment (section 45C).

N/A: Not Applicable

NA: Not Available







