

ASX Potash Companies

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AUD/USD

	DANAKALI	DAVENPORT RESOURCES	HIGHFIELD RESOURCES	KORE POTASH	SALT LAKE POTASH
FINANCE	DNK	DAV	HFR	KP2	SO4
Market Cap'n	\$169.6m	\$8.65m	\$230.3m	\$4.04m	\$205.39m
Price (22/11/19)	64.0¢	3.9¢	70.0¢	0.2¢	80¢
Shares (fully paid)	265 mill	165 mill	329 mill	213 mill	257 mill
Options & PR	9 mill	57 mill	0 mill	124 mill	77 mill
Cash Balance (30/9/19)	\$4.9m	\$0.9m	\$44.9m	\$10.7m	\$22m
Next Qtr Exp. Estimate	\$1.8m	\$0.45m	\$10m	\$3.3m	\$28m
DESCRIPTION					
Main Project	Colluli, 50%	South Hartz, 100%	Muga	Kola, 97%	Lake Way
Status	Financing, pre-development	Technical & economic studies done	In final permitting stages	DFS Jan 2019	BFS done, Oct '19 civils commenced
Location	Eritrea	Germany	Spain:Navarra, Aragon	Republic of Congo	Wiluna, WA
Logistics	230 km by road to port	modern infrastructure	2 hours from port	barging & transshipment	Next to sealed highway, gas pipeline
Description	Solid salts	seams up to 45m thick 4 separate projects	shallow beds, 350m depth	270m depth	brine deposits
Mineral Types	sylvinite, carnallite & kainite	sylvinite, carnallite, & specialty fertiliser	sylvinite	sylvinite	brines
Mining Method	open pit	underground	parallel declines, room & pillar underground	2x7m shafts, underground continuous miner, 2.5-6m heights	bores, seepage trenches & solar evaporation ponds
Processing	conventional flotation and mixing to produce SOP at ambient temperatures. No pre-evaporation ponds	various: conventional flotation, cold leach & hot leach methods	froth flotation, dissolution/recrystallisation	conventional flotation, drying, compaction, glazing & cooling	evaporation, attrition, flotation, conversion, crystalliser, finishing
Saleable Product	Standard & granular SOP, and soluble SOP-M products later	Standard and granular MOP. Standard, granular and soluble SOP. Speciality Fertilizer products	granular MOP	MOP products	premium SOP
Permit Status	Fully permitted	3 Perpetual mining & 2 exploration licences	Environmental Approval granted, awaiting Mining Concession		Granted Mining Leases
RESOURCE/RESERVES					
Measured	28 Mt	n/a	91.8 Mt	215 Mt	not a static resource
Grade	97.2% NaCl		12.4% K ₂ O		subject to movement
Indicated	180 Mt	n/a	143 Mt	292 Mt	of groundwaters
Grade	96.6% NaCl		12.1% K ₂ O		
Inferred	139 Mt	4,942 Mt	32.6 Mt	299 Mt	
Grade	97.2% NaCl	10.6% K ₂ O	12.9% K ₂ O		
Total Tonnes	347 Mt	4,942 Mt	267.4 Mt	847.7 Mt	107 Mt SOP
Grade	96.9% NaCl	10.6% K ₂ O	12.4% K ₂ O	34.9% KCl	11.4 Mt drainable
Proved Reserve	285 Mt	n/a	42.9 Mt	61.8 Mt	
Grade	11.3% K ₂ O Eq.		10.2% K ₂ O	32.13% KCl	
Probable Reserve	815 Mt	n/a	65.8 Mt	90.6 Mt	
Grade	10.3% K ₂ O Eq.		10.2% K ₂ O	32.8% KCl	
Total Tonnes	1,100 Mt	n/a	108 Mt	152.4 Mt	474 GL
Grade	10.5% K ₂ O Eq.		10.2% K ₂ O	32.5% KCl	5 kg/m ³ K
Mining Cut-Off Grade			8% K ₂ O	10% KCl	
PROPOSED PROJECT	Colluli	Ohmgebirge	Muga	Kore	
Annual Production	SOP		MOP, 95%		SOP
Stage 1	0.47 Mtpa	0.5 Mtpa	0.5 Mtpa	2.2 Mtpa	0.245 Mtpa SOP 42,000 tpa KCl
Stage 2	0.944 Mtpa	1.0 Mtpa	1.0 Mtpa		
Capex					
Stage 1	US\$302m	US\$389m	€368m	US\$2,103m	US\$173m
Stage 2	US\$202m	US\$179m	€208m		
Total	US\$504m	US\$568m	€576m		
Capital intensity	US\$534 pt	US\$568 pt	€576 pt		A\$1,038 pt

Opex					
Av. mine gate	US\$165 pt	US\$121 pt		US\$67.70 pt	US\$163 pt
Av. total cost	US\$258 pt		€82 pt, fob C1	US\$84.50 fob	US\$205 pt C1
Quartile (est.)	1st quartile	1st quartile	1st quartile	1st quartile	1st quartile
Recovery				91.9% of KCI	91% from brines
Project Status	Completed FEED. EPCM contract ready for execution.. Notice of Mine Development prepared, awaiting submission.	Completed Scoping Studies on 2 out of 4 projects. Feasibility Study to begin 2020	Awaiting environmental approvals. Awaiting Mining Concessions	DFS released January 2019	evaporation ponds in operation. Commissioning planned Q4 2020
Finance	African Finance Corp, for US\$200m senior debt approved, being documented. Negotiating for equity component	Not addressed yet	€185m debt credit from European banks, new approvals to be sought	Negotiating	US\$150m debt from Taurus, A\$28m equity from strategics
Offtake	EuroChem Trading GmbH for > 87%. Take or pay				3 binding terms sheets for sale of 170ktpa of SOP
Notes					
SOP					
MOP = Muriate of Potash					
Highfield					
Mining Parameters: diluted by 15cm waste on roof and floor, minimum seam height 2.1m, room width 8m					
Treatment Process: Froth flotation and dissolution/recrystallisation for sylvinite ores					
Kore					
Process: for Dougou, extension project. brine heated to 100°C injected into caverns to recover potassium chloride (KCI), then cooled to 47°C & pumped to surface crystallisers, then cooled to 10°C to precipitate KCI. KCI solids are drum filtered & dewatered to make cake, then dried and compacted. Further drying, cooling and glaring to harden the granular materials.					