

COPPER Invest In Sustainability

Corporate Presentation April 2023



Cautionary Information



This presentation ("Presentation") is being furnished on a confidential basis in order to provide readers certain information with respect to the business and operations of Arizona Sonoran Copper Company Inc. (the "Company" or "ASCU").

This presentation contains forward-looking information within the meaning of applicable Canadian and United States securities legislation. All information contained in this presentation, other than statements of current and historical fact, is forward-looking information. Often, but not always, forward-looking information can be identified by the use of words such as "plans", "expects", "budget", "guidance", "scheduled", "estimates", "forecasts", "strategy", "target", "intends", "objective", "goal", "understands", "anticipates" and "believes" (and variations of these or similar words) and statements that certain actions, events or results "may", "could", "would", "should", "might" "occur" or "be achieved" or "will be taken" (and variations of these or similar expressions). All of the forward-looking information in this presentation is qualified by this cautionary note.

Forward-looking information is not, and cannot be, a guarantee of future results or events. Forward-looking information is based on, among other things, opinions, assumptions, estimates and analyses that, while considered reasonable by the company at the date the forward-looking information is provided, inherently are subject to significant risks, uncertainties, contingencies and other factors that may cause actual results and events to be materially different from those expressed or implied by the forward-looking information. The risks, uncertainties, contingencies and other factors that may cause actual results to differ materially from those expressed or implied by the forward-looking information. The risks, uncertainties, contingencies and other factors that may cause actual results to differ materially from those expressed or implied by the forward-looking information are described under the heading "Risk Factors" in the ASCU Final prospectus dated November 9, 2021 and filed on SEDAR, and recent financial disclosures. Should one or more risk, uncertainty, contingency or other factor materialize or should any factor or assumption prove incorrect, actual results could vary materially from those expressed or implied in the forward-looking information. ASCU does not assume any obligation to update or revise any forward-looking information after the date of this presentation or to explain any material difference between subsequent actual events and any forward-looking information, except as required by applicable law. This presentation contains certain financial measures which are not recognized under IFRS, such as cash cost, sustaining and all-in sustaining cash cost per pound of copper. For a detailed description of each of the non-IFRS financial performance measures used in this presentation, please refer to ASCU's management's discussion and analysis for the nine months ended September 30, 2021 available on SEDAR at www.sedar.com. All amounts in this presentation are in U.S. dollars unless otherwise noted.

Technical Information

The scientific and technical information in this Presentation, other than in respect of metallurgy, was prepared under the supervision of Mr. Allan Schappert, Stantec. The scientific and technical information in this Presentation in respect of metallurgy was prepared under the supervision of Dr. Martin Kuhn, MAG. Each of Mr. Allan Schappert and Dr. Martin Kuhn is a Qualified Person as defined by National Instrument 43-101– Standards of Disclosure for Mineral Projects.

The potential quantity and grade presented in the Exploration Target ranges are conceptual and have insufficient exploration and drill density to define a Mineral Resource. At this stage, it is uncertain if further exploration will result in the targets being delineated as a Mineral Resource. Estimates of exploration targets are not Mineral Resources and are too speculative to meet the NI 43-101 reporting standards.

ASCU has conducted extensive exploration work to delineate the exploration target contained in this presentation. This work includes analysis and interpretations from four historical and the two recently drilled core holes into the project, similarities of mineralization intercepted to that of the adjacent Cactus project (for mineralization and alteration characteristics, and grade architecture), and review of geophysical and surface ionic leach programs to support realistic target ranges for extent, thickness, and grade. The Exploration Target ranges assume an underground target for exploration purposes.

Peers

The comparable information about other issuers was obtained from public sources and has not been verified by the Company. Comparable means information that compares an issuer to other issuers. The information is a summary of certain relevant operational and valuation attributes of certain mining and resource companies and has been included to provide the prospective investor an overview of the performance of what are expected to be comparable issuers. The comparables are considered to be an appropriate basis for comparison with the Company based on their industry, size, operating scale, commodity mix, jurisdiction, capital structure and additional criteria. The comparable issuers face different risks from those applicable to the Company. Investors are cautioned that there are risks inherent in making an investment decision based on the comparables, that past performance is not indicative of future performance and that the performance of the Company may be materially different from the comparable issuers. If the comparables contain a misrepresentation, investors do not have a remedy under securities legislation in any province in Canada. Accordingly, investors are cautioned not to put undue reliance on the comparables in making an investment decision.

Capital Structure & Ownership



CAPITAL STRUCTURE

Market Capitalization	C\$190M
Shares Outstanding (M)	105.8
Warrants (M)	5.7
Options (M)	5.6
RSU's (M) ⁽¹⁾	0.3
DSU's (M)	0.5
Fully Diluted Share Capital (M)	117.8
Cash as at Feb 16, 2023	US\$31M
Debt	Debt Free

Notes: (1) RSUs may be issued in shares or cash

OWNERSHIP



ANALYST COVERAGE







HAYWOOD



iA







Brownfield Exploration and Development Project in Tier 1 Jurisdiction



Private Landownership = State and County Led Permitting process



Proposed Copper Heap Leach, SXEW Operation⁽¹⁾⁽²⁾

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Building Scalability and Growth



Experienced Leadership Team; Strong Supportive Sponsors



Supportive Copper Market Fundamentals ESG Framework in Place, Path to Net Zero

Management Team with Track Record of Execution



George Ogilvie, P.Eng. PRESIDENT, CEO & DIRECTOR

+30 years of management, operating and technical experience in the mining industry. Previously President & CEO of Battle North (sold to Evolution Mining), CEO of Kirkland Lake, and CEO of Rambler Metals



lan McMullan, P.Eng., MBA coo

+25 years of mining experience in operational and management roles. **20 year tenure with Newmont** including responsibility for ramp-up and expansion of Leeville and Carlin Portal (Newmont/Barrick). **Previously VP of Mining at Klondex**



Nick Nikolakakis, BASc, MBA VP FINANCE AND CFO

+27 years of North American executive mining finance experience. Former VP Finance and CFO of Battle North, Rainy River and Placer Dome, VP Corporate Finance at Barrick and other positions at North American Palladium and BMO Nesbitt Burns.



Rita Adiani, LLB Hons SVP STRATEGY & CORPORATE DEVELOPMENT

+16 years of mining experience across strategy & business development, investment banking and corporate law. Previously EVP and Head of Business Development at Xiana Mining, MD at NRG Capital Partners, VP at Societe Generale and Senior Corporate Finance Manager at La Mancha



Doug Bowden, MSc. VICE PRESIDENT, EXPLORATION

+40 years mining experience throughout North America and Mexico. Responsible for managing exploration programs for Amselco, BP Minerals, Kennecott and Western Uranium. **Senior executive positions held at Gold Summit Corporation, Western Uranium and Concordia**



Travis Snider, B.Sc, Env Chem, SME VICE PRESIDENT, SUSTAINABILITY & EXTERNAL RELATIONS

+20 years experience in the mining industry in Arizona. Previously Mining Project Manager at Engineering & Environmental Consultants, SVP of Operations for Sierra Resource Group and VP of Mining & Oil operations for Wilcox



Alison Dwoskin, CPIR DIRECTOR, INVESTOR RELATIONS

+15 years in investor relations. Formerly Manager, Investor Relations of Klondex Mines and Eastmain Resources. Began her career at a Toronto-based IR firm, broadly specializing in mining

STRONG SPONSOR SUPPORT



- Global leading diversified metals and mining company with operations in 35 countries.
- Innovating technologies to advance the mining industry
- Shareholder since 2022

TEMBO CAPITAL

- Private equity fund investing in junior and mid-tier mining companies, with low cost, quality assets managed by high caliber teams
- Shareholder since 2020



Experienced Board of Directors





David Laing, B.Sc. Eng CHAIR OF THE BOARD OF DIRECTORS

+40 years experience in the mining industry with roles across operations, project development, mining finance & M&A. **Previously EVP and Senior VP of Operations for Endeavour Mining, COO of Equinox Gold, True Gold and Quitana Resources. Currently Chair of Fortuna Silver and Director of Northern Dynasty Mineral, Blackrock Silver Corp and Amarillo Gold Corp**



Thomas Boehlert, ICD.D DIRECTOR

+30 years in the agribusiness, mining & energy. Experienced finance executive at 6 international public & private resource companies. 14 years' experience in infrastructure and energy project finance banking at Credit Suisse. Previously EVP, CFO of Bunge Limited, President, CEO of First Nickel Inc., EVP, CFO for Kinross Gold Corporation & CFO of Texas Genco. Previously also nonexecutive director of Harry Winston and TMAC Resources



George Ogilvie, P.Eng. PRESIDENT, CEO & DIRECTOR

+30 years of management, operating and technical experience in the mining industry. Previously **President & CEO of Battle North (sold to Evolution Mining), CEO of Kirkland Lake, and CEO of Rambler Metals.** Began his career with AngloGold in South Africa, also held roles at Hudbay and served as Area Manager for Dynatek



Alan Edwards, B.Sc. Eng, MBA DIRECTOR

+35 years of operational and executive experience in the mining sector. **Previously CEO of Oracle Mining, President & CEO of Copper One and Frontera Copper, COO of Apex Corporation. Currently also director of Americas Gold and Silver, Entrée Resources & Orvana Minerals**



Mark Palmer, B.Sc DIRECTOR

+30 years in the mining industry with roles in finance and industry. Currently Partner at **Tembo. Previously at Rothschild and** responsible for EMEA Mining Investment Banking at UBS. Also served as Vice Chair of Canaccord Genuity. Currently also serves on the board of Orion Minerals



Sarah Strunk

+37 years in the mining law, with commercial, legal and transactional experience. Currently Chair at Fennemore Craig. Previously at Cyprus Amax Minerals Corporation. Also served on the Board of Arizona Mining Association, as Trustee of the Foundation for Natural Resource and Energy Law, and as Chairman of Brio Gold



Location Advantage

ARIZONA: Globally Recognized Top Tier Jurisdiction to Operate

Accessible Infrastructure and Skilled Labour-force





Arizona is the **USA's leading copperproducing state which accounted for 70%** of domestic output of copper in 2022⁽¹⁾ 8



Arizona ranked No. 5 for the year 2021 in Fraser Institute's Investment Attractiveness Index⁽²⁾

Notes: (1) USGS Copper Data Sheet- Mineral Commodity Summaries 2023 (2) Fraser Institute Annual Survey of Mining Companies 2021, available at www.fraserinstitute.org



COMPLETED PERMITS

Permit	Permit Office
Air Quality Dust Permit	Pinal County
Arizona Pollution Discharge Elimination System (402) (SWPPP)	ADEQ
Water Rights	ADWR
Aquifer Protection Permit (for Stockpile Project)	ADEQ
General Plan Amendment (including development agreement and city zoning change from residential to industrial)	Casa Grande
Aquifer Protection Permit (Major Amendment)	ADEQ
Mined Lands Reclamation Permit (MLRP)	Arizona State Mine Inspector

OUTSTANDING PERMITS – STREAMLINED PROCESS

Permit	Permit Office	Status		
Industrial Air Permit	Pinal County	Submission under review		
Reclamation Bond	AZ State Mine Inspector			
Radio Station License, Wireless Communication	FCC	Application post-PFS		
Notice of Intent to Clear Land	AZ Department of Agriculture			
Mining Construction Permits	Pinal County	Poquired purcuent to a		
Above-Ground Tank Storage	ADEQ	Required pursuant to a construction decision		
State Notice of Startup/Miner Registration Number	AZ State Mine Inspector/MSHA			

Among the Most Developed Independent US Development Copper Assets

Permitting well advanced and on track to complete a PFS





Source: S&P Capital IQ USA and company reports | Metals and Mining Projects based on active, independent, development stage assets in the USA, as of Feb 15, 2022. Not including projects currently under JV. See PR dated Sept 28, 2022 for disclosures regarding the Cactus and Parks/Salyer MRE.



ASCU Projects

Cactus Project, Low-Risk Brownfield Project

Leachable Base Case Economics / Optionality for Primary Sulphides

ASCI





Project Economics + Rescoped Opportunity

PEA BASE CASE PROJECT METRICS ⁽¹⁾⁽²⁾ Cactus Mine's Oxide and Enriched Material						
	Over the Life of Mine					
Mine Life	1.27 B lbs of Cu over 18 years					
Average Production	28 ktpa (56Mlbs); Peaks at 40 ktpa (80Mlbs)					
Operating Costs Avg OPEX over LOM (US\$/t milled) Avg C1 Cost over LOM (US\$/lb) Avg AISC over LOM (US\$/lb) 	 US\$9.06/ton US\$1.55/lb US\$1.88/lb (incl. 3.18% royalty on Cactus) 					
Сарех	Initial Construction Capex: US\$124M Sustaining Capex over LOM: US\$340M					
Free Cash Flow (Post tax Undiscounted)(US\$3.35/Ib Cu)	• US\$960M					
NPV8 Post-Tax	• \$312 M					
IRR Post-Tax	• 33%					

Sources/Notes: (1) Integrated Cactus PEA, Table 1-6, 1-7 (2)) The Integrated Cactus PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have economic considerations applied to the them that would enable them to be categorised as mineral reserves and there is no certainty that the preliminary economic assessment will be realised

(3) Mineralized Material Sources:

- 1. Stockpile
- Cactus East
 Cactus West
- 4. Parks/Salver
- 5. Primary Sources



Upcoming PFS to target 50 ktpa Copper Production With 30 year Mine Life

Between the PEA and the forthcoming Prefeasibility study, ASCU is considering the following:

- Mining inventory review to include material from:
 - PEA Base Case: Cactus West, Cactus East, Stockpile oxides and enriched material
 - ADDITIONS: Parks/Salyer oxide and enriched matter
 - Development plan sequencing
- Metallurgical recoveries
- Park Salyer Geotechnical and Hydrology
- Operating cost parameters
- Capital cost parameters
- Macro inputs
- Nuton Leaching Technology Option

Increased Underground Grades Contribute Significantly to the Economics

	LEACHABLE MINERAL RESOURCE								
	Total	Open	Pit (CW)	Stockpile					
Indicated	1,065,900 Klbs	919,700 Klbs	0.696% Cu TSol	146,200 Klbs	0.954% CuTSol	٦	′a		
Inferred	1,211,300 Klbs	672,100 Klbs	0.334% Cu TSol	315,700 Klbs	0.881% Cu TSol	223,500 klbs	0.144% Cu TSol		

Sources/Notes: Integrated Cactus PEA, Tables 14-16 and 14-17

Maiden Reserves expected with PFS – 70-80% conversion expected Almost 50% of Cactus Resources comprise of Indicated Resources Infill to measured drilling to resume in Q2 2023

Organic upside potential exists in-pit and on 4 km mine trend

Infill to Measured: ECE-076 - Oxide, Chrysocolla and Malachite in Granite Results Support mine plan



10.0 ft (3.0 m) Interval from 1,362.0 ft - 1,372.0 ft (415.1 m - 418.2 m)

ASCU:TSX ASCUF: OTCQX ARIZONASONORAN.COM

Parks/Salyer Project – Grades ✓ Thicknesses ✓

Opportunity to Integrate into the Cactus PFS

- Mineral resource grade in excess of 1%
- Newly defined deposit is being reviewed for inclusion to the Base Case project for the upcoming PFS
- Traditional horst-graben copper porphyry system from P/S, extending northeast beyond Cactus East
- Drilling Programs to upgrade to maiden reserves with the PFS:
 - Currently infill to indicated program from current inferred category (105,000 ft program) for upcoming PFS
 - Q2-Q4 2023 infill program (90,000 ft program) to upgrade to the measured category spacing for FS in 2024

PLAN VIEW



Contained Copper	Grade
2.9 B Ibs	1.015% T Cu
Ox and Enr Primary 84% 16%	1.06% TSol Cu
Contained Copper	Tons
1.46 M tons	143.6 M

OBLIQUE VIEW



Source: See slide 37 for notes to the mineral resource estimate. Effective date August 31, 2022

Beyond the Base Case: Primary Sulphide Optionality



Currently column leach testing primary sulphides via Rio Tinto's Nuton[™] technologies

- Initial testing showed +72% leaching recoveries of primary sulphides
- Technology assumes simple heap leach and SX/EW plant flowsheet

If successful, includes 1B+ pounds of copper for assessment in the upcoming PFS

Primary mineralization open around Cactus West and NE of Cactus East

Project Primary Indicated **545 M Ibs**

Project Primary Inferred 1.2 B lbs

ABOUT NUTON[™]

- NutonTM is a proprietary suite of copper leach technologies
- Potential to unlock low-grade copper sulphide resources, copper bearing waste and tailings, and achieve higher copper recoveries on oxide and transitional material
- Potential to deliver leading environmental performance
- Testing material from: Los Azules, Argentina (McEwen Copper), Tantahuatay-AntaKori, Peru (Regulus Resources), Gunnison, Arizona (Excelsior)



Beyond the Base Case: Exploration along 4 km Mine Trend

Building Scale and Potential Future Operational Pipeline

- Layering geophysics and drilling results show compelling drill targets along the 4 km porphyry copper mine trend:
- Gap Zone:
 - Priority target, outlined by ionic leach and magnetics
 - Historic condemnation drilling extended 100 ft
 in depth
- <u>NE Extension</u>:
 - ECN-128 confirmed mineralization, similar to P/S and CE, 3,000 ft NE of Cactus East
 - Historic drilling intercepted 3% Cu
- A 20,000 ft (6,100 m) exploration program is being considered

ECN-128 CONTINUOUS MINERALIZATION: 997.4 ft @ 0.46% CuT, 0.20% Cu Tsol, 0.007% Mo 118.1 ft @ 0.97% CuT, 0.94% Cu Tsol (oxide) 151.4 ft @ 0.46% CuT, 0.38% Cu TSol (enriched) 653.4 ft @ 0.40% CuT, 0.008% Mo (primary)







Task		1Q23	2Q23	3Q23	4Q23	1Q24	2Q24	3Q24	4Q24	2025	2026	2027
Drilling		PFS drilli	ng	BFS drilli	ng							
Metallu	ırgy											
Detaile	ed Mine Design and Engineering											
Pre-Fe	asibility					€						
Permit	ting											
Feasib	ility Study											
nt on FS	Construction Decision and Project Financing											
Financing Construction Construction Construction									18 month PEA	build as pe	er the	
ŭ "	Production											



Peer Benchmarking

ASCU Within the Lassonde Curve



20 yr, 556 Mlbs LOM 62,000 tpa; 40,000 oz/y \$1,973 M Market Cap **\$966 M NPV*** *Analyst estimate, pre-resource update **FOM (construction)** 18 yr, 65 Mlbs LOM **29,500 tpa** \$955 M Market Cap \$466 M NPV₇ (after-tax) **ASCU (PFS)** 18 yr, 62 Mlbs LOM 28,000 tpa Assessing inclusion of P/S to the PFS in Q4 23

\$185 M Market Cap \$312 M NPV₈ (after-tax)

Copper Development Peers (P/NAV)



Source: Company Filings, Capital IQ, February 15, 2023

Value Proposition: Benchmarking to Copper Developers

Low-Risk Copper Developer in Top Tier Jurisdiction



Source: Company Filings, Capital IQ. February 16, 2023

Benchmarking ASCU to Copper Developers

	ARIZONA SONORAN			FILO	marimaca	MINERALS		B Western		HIGHLAND Copper Company Inc.	FARADAY COPPER
Market Capitalization (C\$)	\$190M	\$1.4B	\$784M	\$2.8B	\$304M	\$534M	\$533M	\$315M	\$112M	\$59M	\$133M
Asset Name	Cactus / Parks Salyer	Santa Cruz / Tintic	McIlvenna Bay	Filo del Sol	Marimaca	Los Helados	Kay	Casino	Arctic	Copperwood	Cu Creek / Contact Cu
Economic Study Level	PEA	Resource	FS	PFS	PEA	Resource	Historic	PEA	FS	FS	Historic
Development Type (Greenfields or Brownfields)	Brownfields	Greenfields	Brownfields	Greenfields	Greenfields	Greenfields	Brownfields	Greenfields	Greenfields	Greenfields	Greenfields
Jurisdiction	Arizona	Arizona / Utah	Sask.	Argentina	Chile	Chile	Arizona	Yukon	Alaska	Michigan	Arizona
Fraser Institute Policy Perception Index (Rating Out of 100)	85	85 / 91	91	77	69	69	85	80	85	72	85
Measured & Indicated Attributable Resource (MIbs CuEq)	1,611	6,197	2,096	6,019	1,477	14,609	-	14,830	2,629	5,259	4,126
Inferred Attributable Resource (MIbs CuEq)	4,894	4,073	337	2,116	712	4,658	-	6,605	2,792	3,723	673
Mine Life (Years)	18	-	18	13	12	-	-	27	13	10	-
Annual Attributable LOM Production (Mlbs CuEq Payable)	62	-	65	274	79	-	-	329	135	74	-
LOM C1 Cash Cost (US\$/Ib CuEq)	\$1.55	-	\$1.79	\$1.23	\$1.22	-	-	\$1.00	\$1.69	\$1.74	-
Capital Intensity (US\$/Ib CuEq)	\$2.20	-	\$4.47	\$4.62	\$3.61	-	-	\$10.45	\$4.81	\$3.69	-
Headline After-Tax IRR (%)	33%	-	22%	23%	34%	-	-	18%	23%	18%	-
Headline After-Tax NPV (US\$M)	\$312	-	\$370	\$1,280	\$524	-	-	\$2,334	\$1,108	\$117	-
Economic Study Long-Term Copper Price (US\$/Ib Cu)	\$3.35	\$3.70	\$3.50	\$3.00	\$3.15	\$3.00	-	\$3.60	\$3.00	\$3.10	\$3.80

Source: S&P Capital IQ. Company Filings. The Integrated Cactus PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have economic considerations applied to the them that would enable them to be categorized as mineral reserves and there is no certainty that the preliminary economic assessment will be realized. Data as of February 15, 2023

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High Quality Project

A simple porphyry copper project in a top tier jurisdiction with robust economics and low capital intensity

Growth focused

Multi-billion-pound project pipeline includes Cactus, Parks/Salyer leachable material, sulphide optionality and exploration opportunity

A Team with a Successful Track Record

A proven track record of delivering successful mining projects. The team takes an environmental and socially conscious approach to project development





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www.arizonasonoran.com | www.cactusmine.com



Appendix

	LEACHABLE MINERAL RESOURCE									
	Indicated Resource: 1,065,900 Klbs Inferred Resource: 1,211,300 Klbs									
					1,211,0		<u> </u>			
	Open	Pit & Sto	ockpile			Un	dergrou	Ind		
Material Type	Tons (kt)	CuT (%)	Tsol (%)	Tsol_lb (klbs)	Material Type	Tons (kt)	CuT (%)	Tsol (%)	Tsol_lb (klbs)	
	Inc	licated Reso	ource		Indicated Resource					
Oxide	27,000	-	0.512	275,900	Oxide	4,400	-	0.844	74,200	
Enriched	39,200	-	0.822	643,800	Enriched	3,300	-	1.101	72,000	
Total Leachable	66,200	-	0.696	919,700	Total Leachable	7,700	-	0.954	146,200	
	In	ferred Reso	urce			Inf	erred Reso	urce		
Oxide	51,600	-	0.268	282,000	Oxide	10,900	-	0.718	157,200	
Enriched	48,100	-	0.405	390,100	Enriched	7,000	_	1.136	158,500	
Total Leachable	99,700	-	0.334	672,100	Total Leachable	17,900	-	0.881	315,700	
Stockpile – Total Inferred	77,400	0.169	0.144	223,500	Sources/Notes: Integra	ited Cactus PEA, Tal	bles 14-16 and 14-1	7		

Resource

• UG high-grade contributing to economics

 Maiden Reserves expected with PFS -70-80% conversion expected

Almost 50% of current Resources
 comprise of Indicated Resources

 72,000 ft Feasibility level drilling program to resume in late 2022

 Organic upside potential exists in-pit and on 4 km mine trend

Brownfield Infrastructure Advantage

Valued at approximately \$100M



- Offices, core shack and ancillary buildings
- Power substation
- Onsite metallurgical testing
- · Water wells and water pond permitted
- Access to water

- Rail line (to ship concentrate to refinery)
- Stockpile (part of Integrated Cactus PEA)
- Vent raise, shaft and underground workings (has not been upgraded)

01	Cactus Programs complete with favourable leach cycles	Cactus Met Program (updated Feb 2022)	Leach Cycle	Recoveries	Gross Acid Consumption (Ib/ton)	Net Acid Consumption (Ib/ton)
	 Enriched Material is acid generating, reducing reliance on external acid sources 	Stockpile (Oxide)	90 day leach cycle	90% (% CuAS)	22	16
		OP & UG (Oxide)	90 day leach cycle	92% (% CuAS)	22	16
	Parks/Salyer Met Programs currently underway in onsite facility	OP & UG (Enriched)	200-220 day leach cycle	73% (% CuCN)	21	0
)2	 20 ft columns online (Stockpile, P/S, Cactus) 30 ft columns being constructed Initial views indicate similarities to Cactus results 					

Cactus mine site above, with Trustone Facility on the right side of the image

Inside the Trusone building: 12 online 20 ft columns online, image on the right

Columns began in late 2023

Rio Tinto's Nuton innovations department

well underway testing primary sulphides

03

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The Cactus Mine Project History and Path Forward



Our ESG Framework – Setting the Pace for Net Zero Carbon Emissions



• ASCU is actively exploring use of renewable energy for its operations with the goal of becoming a "Net Zero Carbon Emissions" copper producer

• Ability to also reduce carbon footprint by Arizona Public Service's transition to renewable resources (65% by 2030 and 100% by 2050)

Local Support for the Cactus Mine

Overwhelming support for the Cactus Mine in Casa Grande – economic survey shows \$8.5 Billion of indirect and direct revenues to the local community.

Probably Support
Don't Know, Refused
Definitely Oppose
Probably Oppose
Definitely Support



10.6% Oppose GOP: 93.0% Support Dem: 66.7% Support PND: 84.4% Support IND: 91.1% Support Casa Grande: 81.5% Support Maricopa: 84.8% Support

Polling completed by Highground Public Affairs Consultants in December 2021

Journey Towards Net Zero - Partnership with Minviro

PFS/FS

- Design parameters used to scope impact
- GHG inventory assessment (Scope 1, 2 and 3)
- Consideration of impact of diesel fuel, sulfuric acid, carbonate minerals, electricity, cement in operations across Scopes 1 and 2
- 100% renewable energy solutions
- Careful water use and management
- Waste and pollution management air quality, dust management and tailings management
- Establishing carbon trading and offset policies/trading to the extent required

PRODUCTION AND REPORTING

- Establishing reporting KPIs
- Reporting to international standards (e.g. SASB, TCFD)



Construction

- Investment in low carbon technologies and minimizing direct impacts (Scope 1 & 2)
- Supply chain management to minimize Scope 3 emissions
- Local procurement and workforce hiring generating positive social impact
- Compliance with global standards (e.g., Equator Principles) to align with debt financing



Source: Company Filings, Capital IQ – February 15, 2023

(1) Arizona Sonoran production shown as peak production of ~80 Mlbs, an additional data point is shown as the Company's goal of +100 Mlbs of annual copper production

Cactus PEA Production Schedule – Opportunity beyond 40 kstpa (80 Mlbs)

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Heap Leach & SX/EW Processing

The mining schedule reflects a layered mining plan targeted at early production with low capex, maximising project returns. Initial plant capacity is designed at 22 kstpa with expansion to 35 kstpa concurrent with underground mining in full ramp up by year 7 of the project start-up. Significant organic expansion opportunities exist

Sources/Notes: (1) Integrated Cactus PEA, Table 16-8 and figure 16-23 (2) The Integrated Cactus PEA is preliminary in nature, it includes inferred mineral resources that are considered too speculative geologically to have economic considerations applied to the them that would enable them to be categorised as mineral resources and there is no certainty that the preliminary economic assessment will be realized

Robust Returns from Lowest Capital Intensity vs Peer Group

Between the PEA and the upcoming Prefeasibility study, ASCU is reviewing the following:

- Mining inventory (potential to include P/S and Primary Material)
- Development plan sequencing
- Metallurgical recoveries
- Operating cost parameters
- Capital cost parameters
- Macro inputs

PEA CONSTRUCTION CAPEX BREAKDOWN (US\$M)							
Direct & Indirect Cost Components	Leach Pads, Ponds & Pipelines	SXEW Facility	Total Capital Cost				
Directs Subtotal	\$18.4	\$45.9	\$64.3				
Indirects Subtotal	\$3.1	\$19.1	\$22.2				
Contingency	\$3.0	\$9.0	\$12.0				
Total Process Construction Cost (22 ktpa)(Initial)	\$24.5	\$74.1	\$98.5				
Land Acquisitions			\$22.9				
Project Other Costs			\$2.6				
Total Initial Construction Cost			\$123.9				

DEA CONSTRUCTION CADEY RDEAKDOWN (US¢M)

Assumes contractor mining

 A contingency of 15% has been included in the capital cost for ancillary mine equipment, leach pad infrastructure and the SXEW facility



Sources: (1) Integrated Cactus PEA 2021 for ASCU – Table 21-2, Mollvenna Bay Project, Freadmining (Pre-feasibility Study for the McIlvenna Bay Project, Report Date: 27 April 2020); Marimaca Project, Marimaca Project, Marimaca Project, Marimaca Project, Freiminary Economic Assessment Marimaca Project, Anot Date: 24 August 2020); Filo del Sol, Filo Mining (Pre-feasibility Study for the McIlvenna Bay Project, Freadminary Economic Assessment Marimaca Project, Marimaca Project, Anot Date: 24 August 2020); Marimaca Project, Fastibility Study for the McIlvenna Bay Project, Ford Date: Supervised, Fastibility Study Alaska, USA; Report Date: August 20, 2020); and Josemaria Copper-Gold Project, Josemaria Copper-Gold Project, Supervised, Argentia; Regoin, Cate Province, Argentia; Report Date: Supervised, Argentia; Regoin, Cate Province, Argentia; Regoin, Cate P

Material Type	Tons (kt)	CuT %	TSol %	Contained Cu (k lbs)	Contained Cu (k Tons)
INDICATED					
Cactus					
Oxide	31,400		0.559	349,700	176
Enriched	42,500		0.844	715,500	359
Total Leachable	73,900		0.723	1,065,200	534
Primary	77,900	0.35		545,500	273
Total Indicated	151,800	0.531		1,610,700	806
INFERRED					
Cactus					
Oxide	62,500		0.346	430,500	216
Enriched	55,100		0.498	548,800	274
Total Leachable	117,600		0.417	979,300	490
Primary	111,300	0.349		776,000	388
Total Inferred	228,900	0.384		1,755,300	879
Stockpile					
Oxide	77,400		0.144	223,500	111
Parks/Salyer					
Oxide	14,100		0.827	233,700	117
Enriched	101,200		1.1	2,227,200	1,113
Total Leachable	115,400		1.066	2,460,900	1,230
Primary	28,300	0.804		454,400	228
Total Inferred	143,600	1.01	5	2,915,400	1,458
		Total Resou	Irces		
INDICATED					
Total Leachable	73,900		0.723	1,065,200	534
Total Indicated	151,800	0.53		1,610,700	806
INFERRED					
Total Leachable	310,400		0.59	3,663,700	1,832
Total Inferred	449,900	0.54	4	4,894,200	2,447

1. CuT means total copper and Tsol means total soluble copper as the addition of sequential acid soluble and sequential cyanide soluble copper assays. Tons are reported as short tons.

2. Cactus and Stockpile Resource estimates have an effective date of 31st August, 2021 and use a copper price of US\$3.15/lb. The assumptions in respect of the Cactus and Stockpile Resource estimates are as stated in the Preliminary Economic Assessment ("PEA") titled "Arizona Sonoran Copper Company, Inc. Cactus Project, Arizona, USA Preliminary Economic Assessment" with an effective date of filed in August 31, 2021; Parks/Salyer Resource estimate has an effective date of 7th September, 2022 and uses a copper price of US\$3.75/lb

3. Technical and economic parameters defining resource pit shell: mining cost US\$2.45/t; G&A US\$0.55/t, and 44°-46° pit slope angle.

4. Technical and economic parameters defining underground resource: mining cost US\$28.93/t, and G&A representing 7% of direct costs.

5. Technical and economic parameters defining processing: Heap leach (HL) processing cost including selling US\$1.77/t; HL recovery 83% of CuT; mill processing cost US\$8.50/t.

6. For Cactus: Variable cutoff grades were reported depending on material type, potential mining method, and potential processing method. Oxide material within resource pit shell = 0.096% TSol; enriched material within resource pit shell = 0.098% TSol; primary material within resource pit shell = 0.205% CuT; oxide underground material outside resource pit shell = 0.56% TSol; enriched underground material outside resource pit shell = 0.70% TSol; primary underground material outside resource pit shell = 0.70% CuT.

7. For Parks/Salyer: Variable cutoff grades were reported depending on material type associated potential processing method. Oxide underground material = 0.495% TSol; enriched underground material = 0.60% TSol; primary underground material = 0.586% CuT.

8. Mineral resources, which are not mineral reserves, do not have demonstrated economic viability. The estimate of mineral resources may be materially affected by environmental, permitting, legal, title, sociopolitical, marketing, or other relevant factors.

9. The quantity and grade of reported inferred mineral resources in this estimation are uncertain in nature and there is insufficient exploration to define these inferred mineral resources as an indicated or measured mineral resource; it is uncertain if further exploration will result in upgrading them to an indicated or measured classification.

10. Total may not add up due to rounding.

Cactus East FS Level Infill Drilling Supporting Current Model

Press Release Dated August 30, 2022



Cactus East Cross Section, Looking Northwest

Press Release Dated August 30, 2022



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Parks/Salyer Plan View with Interpreted Mineralized Extents Press Release Dated November 29, 2022





• Previously Reported November 28 Press Release • Assays Pending Interpreted Mineralization Extents

500 ft (152 m)

1,000 ft (304.8 m)

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Parks/Salyer Cross Section – Looking West

Press Release Dated November 29, 2022





ECP-097 Oxide Mineralization

Press Release Dated November 2, 2022





1.71% TCu 1.70% TCu Sol 0.027% Mo

10 ft Interval 1,324 – 1,334 ft (3.0 m, 403.5 – 406.6 m)

WITHIN: 0.68% TCu 0.65% Cu Tsol 0.018% Mo

294.4 ft interval 1,071.0 - 1,365.4 ft (89.7 m, 326.4 - 416.2 m) Drilling the same porphyry copper system, starting at Santa Cruz and extending northeast over P/S and beyond the Cactus Mine Project.

- ASCU active drilling (3 rigs)
- IE active drilling (6 rigs)
- Ivanhoe Electric Mineral Resource Estimate
- Indic 226 Mt of 1.24% CuT, 0.82% Cu TSol
- Inf 149 Mt of 1.24% CuT, 0.82% CuTSol
- (0.39% cut-off \$3.70/lb Cu)

Source : Ivanhoe Electric Technical Report

