

GreenMet 50 Critical Minerals Essential to

GreenWet	5		National Security
Indicates government stockpile	Net Expo	rter (E) o	Net Import Reliance
HAFNIUM	E		Nuclear control rods, alloys ←
BERYLLIUM	11%		Alloying agent in aerospace, defense industries
ALUMINUM	13%	Powe	er lines, construction, electronics
ZIRCONIUM	25%	High	-temperature ceramics production
PALLADIUM	40%	Cata	lytic converters
GERMANIUM	50%	Fibei	optics, night vision applications
LITHIUM	50%	EV re	chargeable batteries
MAGNESIUM	50%	Cars	seats, luggage, laptops
NICKEL	50%	Stair	iless steel, rechargeable batteries
TUNGSTEN	50%	Wea	r-resistant metals
BARITE	75%	Hydr	ocarbon production
CHROMIUM	75%	Stair	iless steel
TIN	75%		ings, alloys for steel
COBALT	76%		argeable batteries, superalloys
PLATINUM	79%		lytic converters
ANTIMONY	81%		l-acid batteries, flame retardants
ZINC	83%		allurgy to produce galvanized steel
TITANIUM BISMUTH	88% 94%		e pigment or metal alloys
TELLURIUM	95%		cal, atomic research r cells, thermoelectric devices
VANADIUM	96%		ing agent for iron, steel
ARSENIC	100%	-	-conductors, lumber preservatives, pesticides
CERIUM	100%		lytic converters, ceramics, glass, metallurgy
CESIUM	100%		arch, development
DYSPROSIUM	100%	Data	storage devices, lasers
ERBIUM	100%		optics, optical amplifiers, lasers
EUROPIUM	100%	Phos	phors, nuclear control rods
FLUORSPAR	100%	Man	ufacture of aluminum, cement, steel, gasoline
GADOLINIUM	100%	Medi	cal imaging, steelmaking
GALLIUM	100%	Integ	rated circuits, LEDs
GRAPHITE	100%	Lubr	icants, batteries
HOLMIUM	100%	Pern	nanent magnets, nuclear control rods
INDIUM	100%	Liqui	d crystal display screens
LANTHANUM	100%	Cata	lysts, ceramics, glass, polishing compounds
LUTETIUM	100%	Scint	tillators for medical, cancer therapies
MANGANESE	100%	Stee	lmaking, batteries
NEODYMIUM	100%	Medi	cal, industrial lasers
NIOBIUM	100%	Stee	l, superalloys
PRASEODYMIUM	100%	Perm	nanent magnets, batteries, aerospace alloys
RUBIDIUM	100%	Rese	arch, development in electronics
SAMARIUM	100%	Cano	er treatment, absorber in nuclear reactors
SCANDIUM	100%	Alloy	rs, ceramics, fuel cells
TANTALUM			ronic components, superalloys
TERBIUM	100%		al alloys, lasers
THULIUM	100%		al alloys, lasers
YTTOUINA	100%		lysts, scintillometers, lasers, metallurgy
IDIDILIM	100%		mic, catalysts, lasers, metallurgy, phosphors ing of anodes for electrochemical processes
IRIDIUM	**		lytic converters, electrical components
RHODIUM	**		rical contacts, chip resistors in computers

Electrical contacts, chip resistors in computers

RUTHENIUM

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