 EIT InnoEnergy is supported by the EIT, a body of the European Union

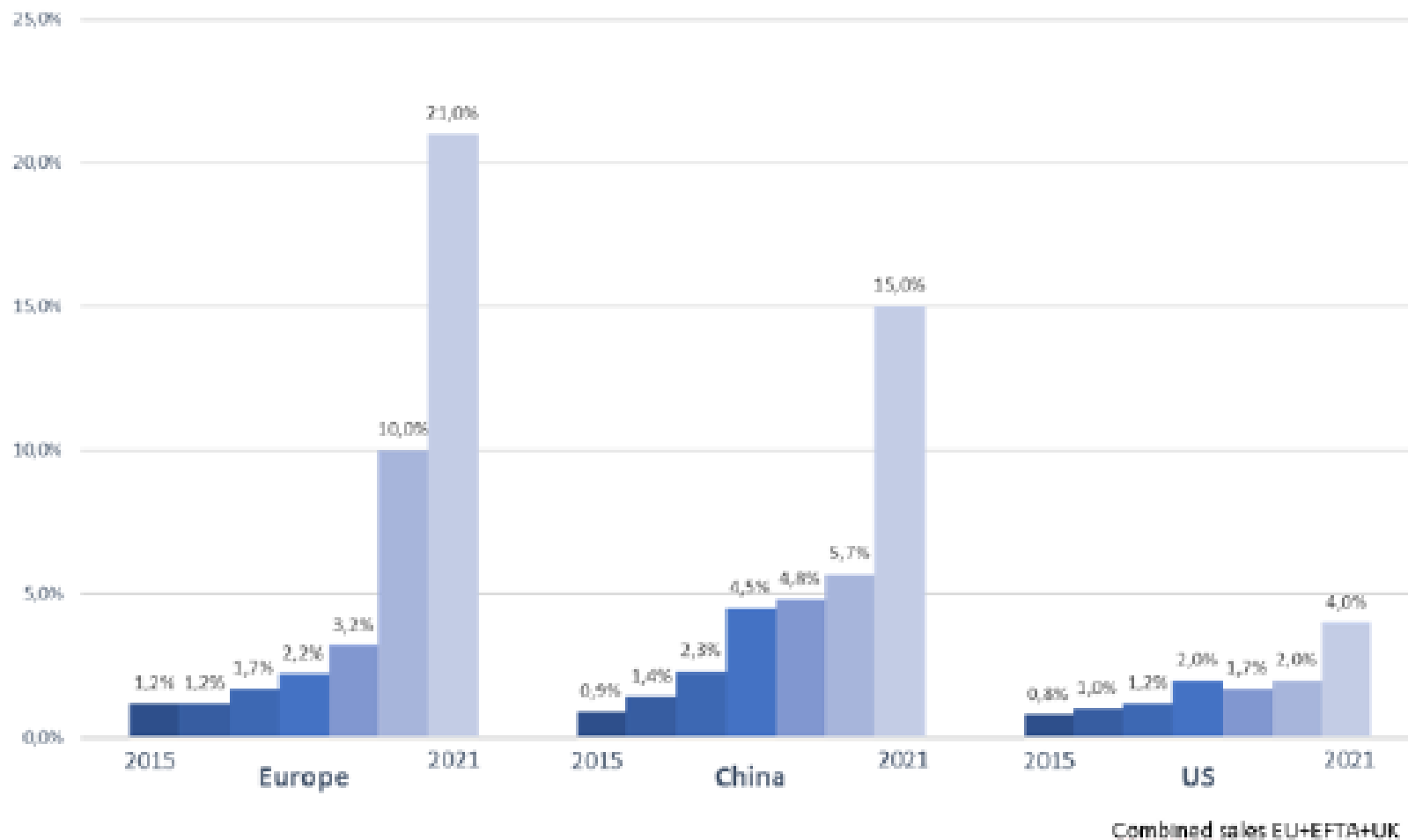


# The European Battery Alliance

## A European success story

REKK Energy Futures workshop  
22<sup>th</sup> February 2022

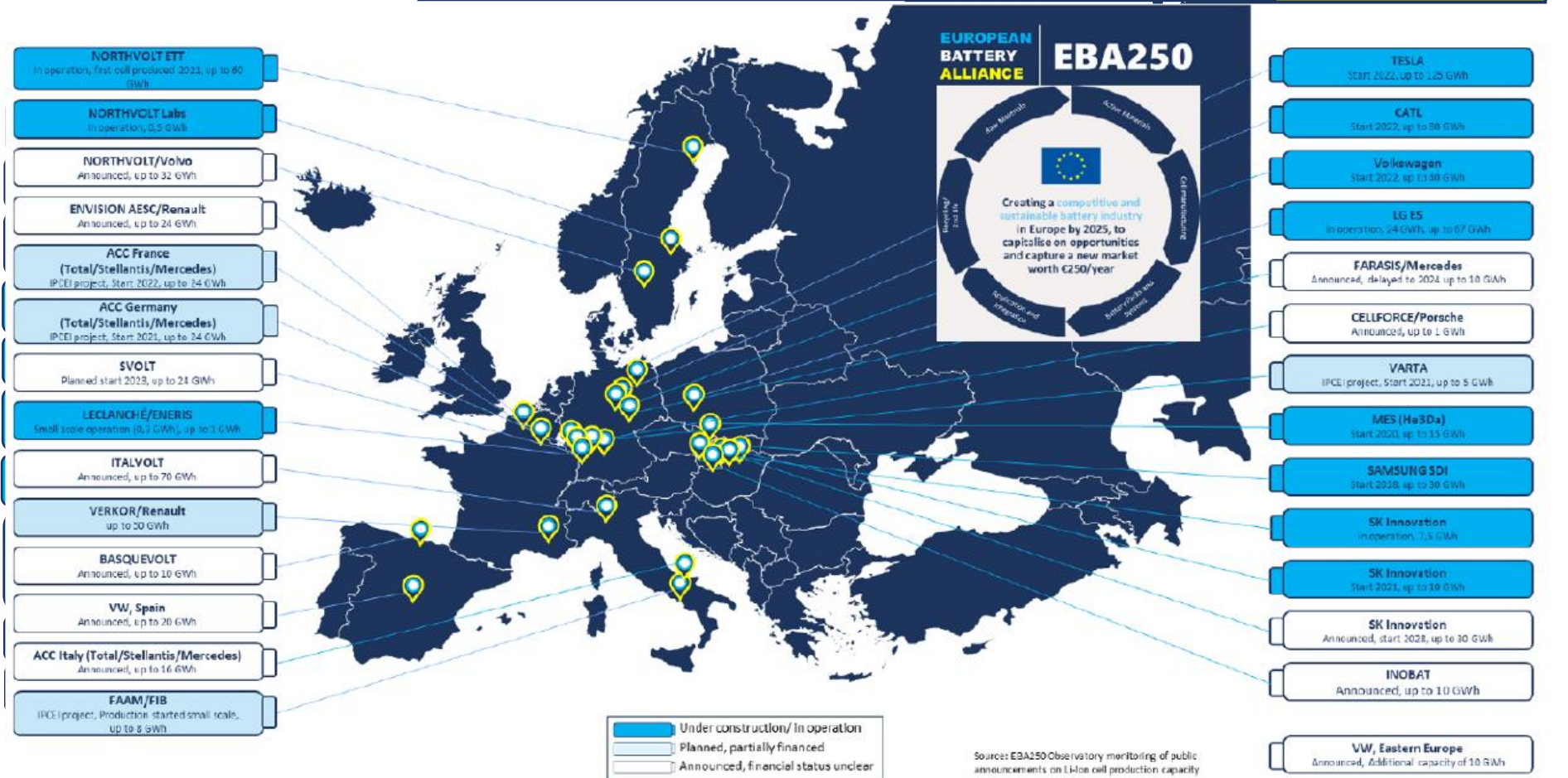
### Market share of new plug-in electric passenger cars by region/country (2015-2021)



# EBA harvest since October 2017 (2/3)

## Industrial projects all across the value chain in 22 countries

2



110 Industrial projects all across Europe, creating jobs and growth

# EBA harvest since October 2017 (3/3)

## The means: A “Fit for purpose” ecosystem built from scratch

3



EIT Raw Materials Finnish Minerals Group Fin. Network for Sust. Mining European Lithium Magnis/ Allocate Prince Erachem Aura Energy Outotec Cobalt Institute Copperalliance Keliber Albemarle EUROMINES Trafigura Rio Tinto GTK Crisolteq Aurubis	Leading Edge Materials European Metals Holdings European Copper Institute Gov. of Western Australia Fennoscandian Resources Infinity Lithium Eramet DERA Boliden Cobat FLSmith KGHM	Nanomakers 3M Elkem Umicore Imerys Graphite & Carbon Solvay LOTOS BASF Arkema SGL Group Heraeus Nanomakers Wacker Chemie OXIS Energy Phillips 66 Evonik Tribotec Höganäs RGS Development	Nawa Technologies Grupa Azoty EMIRI Ganomat Leyden-Jar	Saft KLIB Northvolt LION Smart LION E-Mobility CustomCells EAS Batteries Terra E Lithops Leclanché Liacon Electrovaya Litarion Varta Hoppecke Envites Energy BELENOS Forsee Power MES InnoLith	AkasoL Tata Steel Plating EM Micro-electronics HE3DA EV Battery Akkurate Delfort Videoton EoCell Inc CAEC Cleantron Clean Power Technology Passion Motorbike Renata Batteries Dassault Systems Blue Solutions Freyr	Freudenberg Manz MW group Thyssen Krupp PEC FAAM FIB srl MG Energy Honeywell ABB Coperion NXF Semiconductors Vaisala CEGASA Tungstram Gestamp Swatch Group BMZ Schäffer AG	Sonnen ErlingKlinger PSA Groupe Renault SA Daimler AG NISSAN Automotive Einride Jaguar Landrover TESLA Ford VolvoCars Volvo Continental AG Bosch Siemens Stihl Honda R&D Europe Danfoss	CNH Industrial Volkswagen VESTAS RIMAC FCA - EMEA FIAT Centro Ricerche FIAT AmbiBox Innogy Red Electrica cyberGRID Albufera Energy Stor Streetscooter PKN ORLEN AMPS Power Fortum Nordex TOYOTA Tsusho EU	BMW Epiroc Portliner Ampere Energy Cargotec Cummins Rafako ENEL TERNA EDF ENEDIS Total Vattenfall EDP Inovacao OIG CAF Alpiq FPT Powertrain Tech	Veolia Suez Revatech EBRA RECHARGE Stena metall Stena Recycling International Akkuser Interseroh Bee Planet ARN envirobat Umicore
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700+ stakeholders, capturing a common goal

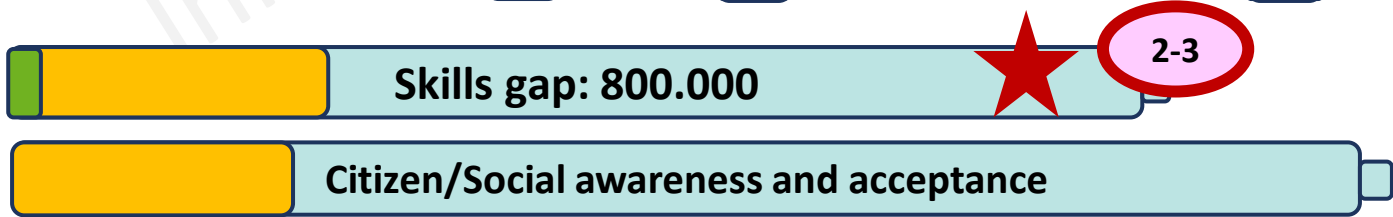
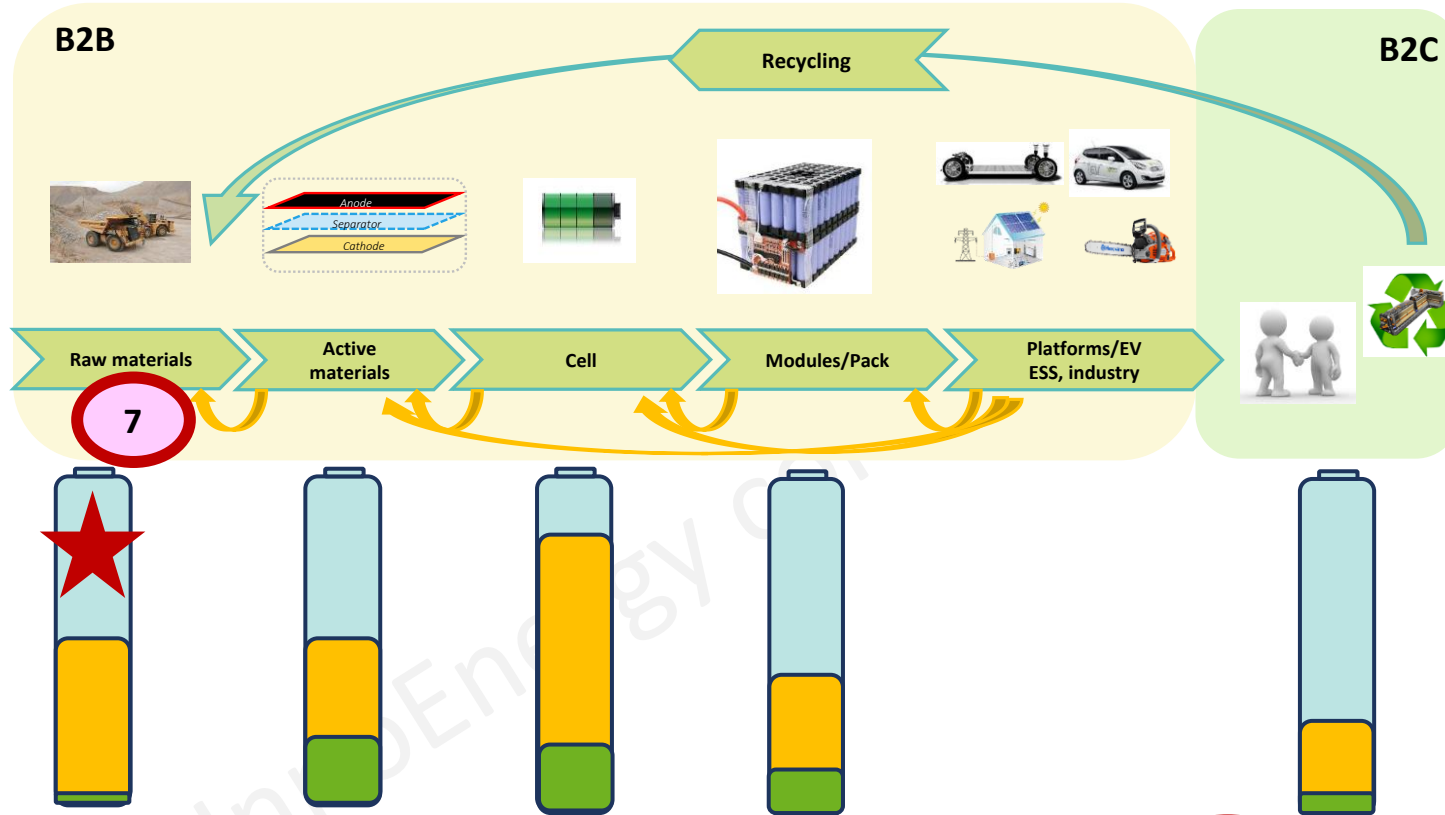


Research and associations active in large parts of the value chain	Fraunhofer	CEA	SINTEF	AIT	VITO	ENEA	AVL ITALIA	CNR	ANIE	Politecnico Milano	CATCH	ECOS
	Inst. Chem. Slovenia	Innovate UK	Faraday Inst	Uppsala Univ	VUB	CEPS	UTBM	FEMTO	INST. ITALIANO	CIDETEC	SFEM Stora	Not innovated here
	Munster Uni	CIC	TU Braunschweig	Aalto Univ	ERRIN	EASE	EUROBAT	T&E	EUCAR	EGVIA	Instituto Tec Energia	CEFC
	smartEN	DNV GL	TUV SUD	AVL	RISE	ifu	CEFC	VDMA	VDE	CEN/CENELEC	ACEA	VG-Colab
MCI	Valuad	AVERE	ADS	BVES	A3PS	Zabala	AMMA	TNO	ACEA	CEP		
DENA	GART	Business Finland	VASEK	GigaVaasa	Amiens	Invest in Lithuania	RVO	RSE	CLEPA			
Financial Institutions involved in EBA	EIB	BPI	DEMETER	LB	BNP Paribas	ING	Total VC					
	EBRD	Société Générale	Equinor	Lazard	Credit Agricole	HSBC	Macquarie					
	PFR	KFW	LBW	San Paolo Intesa	Goldman	DZ Bank						

3-4M jobs

EBA: Institutions from most European countries, acting together, with an ambitious goal, lead from “Brussels”

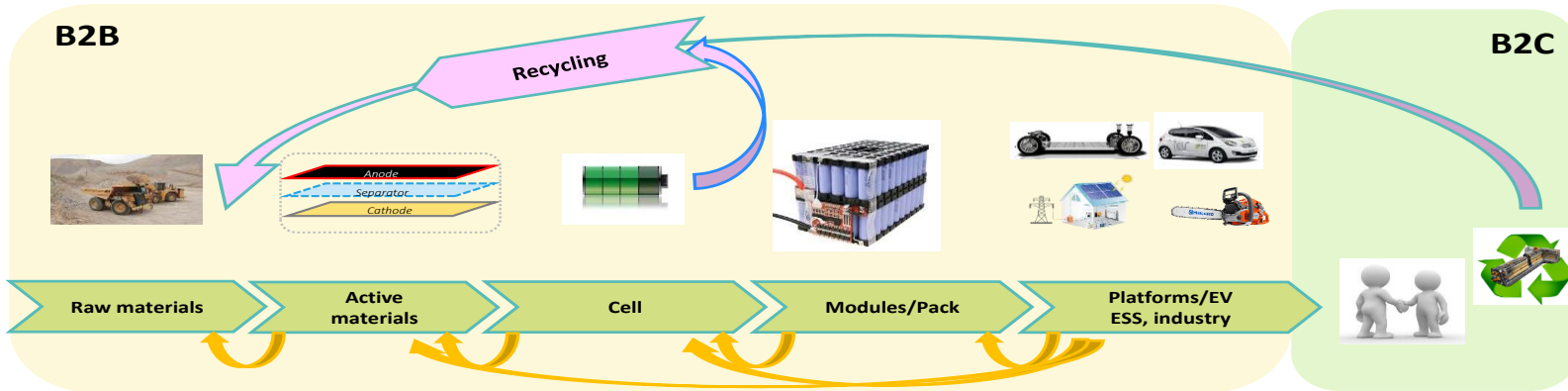
### Gap between **existing + committed** and **needed capacity** (for 2025)



**Resilience building up, yet more speed needed**

# Still work to do and gaps to fill (2/3)

## Traceable and responsible sourcing in battery value chain



2

Accelerating PFS & DFS

3

Recycling prod. scrap

4

EOL collection & Black Mass

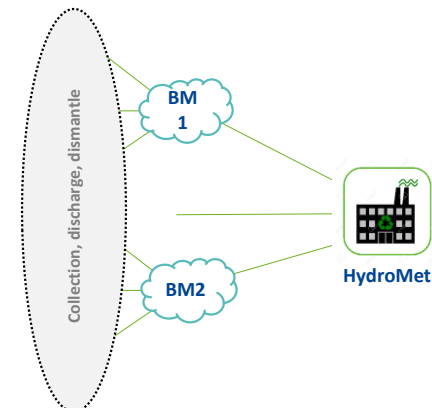
EBA Green Fund  
Live Q1 2022

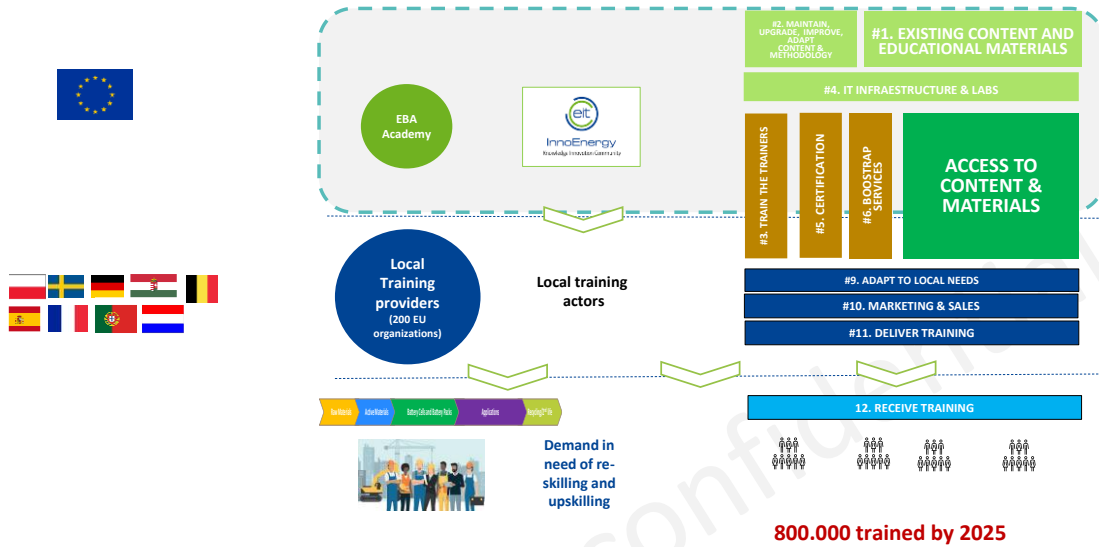
Scoping, PFS, DFS  
Mining & processing  
Li, Mn, Co, Ni, C, Al  
250M€ - 10 cases

Industrial cell with 100%  
recycled Ni, Co, Mn

<https://northvolt.com/articles/recycled-battery/>

125ktons/year plant committed





Industry Employment

MOUs signed between **Member State** and **InnoEnergy** with the patronage of **VP Sefcovic**

# Your points of contact in InnoEnergy

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