be I Sirius



Practical applications of AI for ESG reporting and regulatory compliance in the steel industry

Sustainability turned into compliance.

>80% of time on answering questions in 100s different formats

uy	No.J STT	AUDIT ITI	EMS/ HẠNG MỤC ĐÁNH GIÁ												
	1	FIFO flow followed when providing materials													
t i		Tuần theo quy trình FIFO khi cung cấp nguyên vật liệu?													
t	2	Record docs for material imported (quantity & status)?													
ł		Lau giữ chứng từ nhập nguyên vật liệu (số hạng và chất lượng)?													
ł	3	Bules for quality control when receiving materials and performance ?													
ł		Các any định mán là chất hong khi nhân nguyên vật liêu và thực kiến như nha							-						
ł	4	4 Rules to separate and distinguish NG and O													
ł		Cáo ann Ainh ab in leai/ab in hite annain a	A B	C	b		E	P	6						
ł	5	Instruction standard & method 2	45 1.4) Target date if registration												
ł	-	Tilu oluán vá nhama nkán kilu tav?	Neiv dự kiến đặng kủ												
+	6	Working instantion, standards does for me	65 right of kill daily ky						-		- (
ł	0	working instruction, standards does for pro	[17] 1.5) Is there an original QMS (Q	uality Management Syste	m) in your company	2		Yes	No	_					
ł		tai ueu neu ceuan, oan euong aan nao tae	48 Công ty có hệ thống quản lý chấ	t lượng không?				Có 🗌	Không		ŕ				
ł	7	Rules for emergency issues (machine, NO	49 1.6) If yes, who is the company	representative responsibl	e for the QMS?										
ŀ		Quy ainn vê xử lý văn đẽ phảt sinh (máy n	n Nếu có, ai là người phụ trách bê	thống quản lý chất hưm	a										
ļ	8	Rules for record of in-process inspection a	51 Name/ Tên:		Designation/ Chies										
ļ		Quy định về lưu trữ các kết quả kiếm tra tr	52 Email add/ Dia chi email-		Designation Child		_		_		• • •	•	_		
ļ	9	Rules for output record?	53 1.7) Does the company have As	arance Quality Chart or	Organization ch		ABCD	EFGHI	JKLM	NO	PQRSTUV	WXYZA	A AB AC AD A	NE AF AG AH AI AJ AK	AL
L		Quy định về thống kê sản hợng ?	54 Công ty có biểu đồ bảo đám chấ	t lượng hoặc biểu đồ tổ r	húc không?	128	Zimba	hwr	(All ex	or the co	(antry)				
l	10	Rules for record of NG, OK ratio in proc	55 (If yes, provide copy version/)	vều có cung cấp bản cop	y)	129	Color-	o ne	1240 41						
l		Quy định về thống kê tỉ lệ hàng lỗi, hàng đ	56 1.8) Does the company have a Q	uality Policy?		130	8. Country	of Origin		_					
[11	Procedure, rules for new production opera	67 Công ty có chính sách chất lượn	g không?		132	(I) Name	of Mining Site		/	Antapaccay and Batu Hijar	1			
[Quy trình, quy định đào tạo công nhân vận	58 (If yes, provide copy version/ Nếu có, cung cấp bản copy)			133 (2) Location of Mining Site			0	Jusco. Peru and Sumbawa	. Indonesia				
- [12	Have process change rule?	59			134	(l) Numb	r of People Worl	ing in the Mir	nina		,			
1		Có quy trình kiếm soát thay đối không?	50 2. Environment system/ Hê thố	ng môi trường		136	(3) Number of People working in the Mining Site		ş	more than 500					
ł	13	Inspection standard & method ?	61 2.1) Has ISO 14001 certification	or equivalent standard b	een acquired?	137	(4) Have you ever performed on-		d on-site visit?	m-site visit? (YesNo) Antapaccay is part of		ourt of the (T	the (Date) N/A		
ł	_	52 Có chúng nhận ISO 14001 hoặc các chúng nhận tương đương không? Tiêu chuẩn và phương pháp kiếm tra?			uong không?	ng7 138				Glencore Group			Comment (If any		
ł	14	Working instruction, docs. , sample for inst	[53 2:2) If yes, state date of acquisition, Certification standard name, [64 Neu có, chí rð ngày chứng nhận, tên tiêu chuẩn chứng nhận [55 Certification hody name. Certification No :-		name,	140 1		(5)					When sourced	When sourced from our own assets belonging to the Glencore	
ł	-	Tài liêu tiêu chuẩn, bản hướng dẫn thao tác					Are there comprehensive procedures and systems rafity of nervormed at the minima rite?			to guarantee the health and Yes	standardized approach to identifying, assessing		and managing Healt		
ł	15	Rules for record of parts inspection (NG	56 Tên cơ quan chứng nhân, số chủ	ng nhin		141	2007	a parsonara a are	manug 2001				Safety, Environ	ment, Communities and Huma	Rights risks and
ł		Ouv định về lưu giữ số liệu kiếm tra sản nh	67 2.3) If no,does the company plat	n to go for registration?		142	(6) Are the	re comprehensive	procedures and	systems	at the mining site to avoi	d Yes			
ł	16	Rules/Indication for goods before & after	58 Nếu không, công ty có kế hoạch	đăng ký không?		144	 (7) (7)	e mipaci to the en	includes:			Var			
	10	One that had a life bire service as a service bird	59 2.4) Target date if registration/ N	igày dự kiến đãng ký		145	Does to	e mining site eng	ge with anecte		mmunny:	16			
			70 2.5) Is there an original EMS (Er	nvironmental Manageme	nt System) in y	146	(8) Is there child be	comprehensive pr bor and forced lab	ocedure at the r or?	mining si	te to ensure prevention of	Yes			
			71 Có hê thống quản lý môi trường	không?		148	(9) Does th	e mining site ens	ure that profit fr	ium copp	er ore are not given to	V.er			
			72 2.6) Who is the company represe	intative responsible for the	e EMS?	149	illegiti	nate non-state arm	ed group?			103			
			73 Người phụ trách hệ thống quả lý	môi trường?		150	9. Transpor	ation							
			74 Name/ Tên		Designation/	152	Please describ	e transporter an	the way to tr	ansport	of conner are ar concent	rate.		1	
			75 Email add/ Dja chi email:	environmental Balian/I	-	153					Errasporter.	Way to transr	art	Comment (If	(10)
			 2.7) Does ne company nive a e. (Provide conv version) 	invironmental Foney:		155	(l) From t	he mining site	- 1		ana				Page 9
			78 Công tự có chính sách môi trườn	g không? (Cung cấp bả	a copy)	156	to the	processing plant		~9	agy.		_		
			79	6 6. (6 F		157	(2) From to the	ne processing pil	at	supp	lier or its attiliate	vehicle			
			(0 2.8) Is there a system to control	chemical substances.		159	(3) From	he port of loadin	g		third party	shin			
						160	to the	oort of discharge							
						162	10. Permissi	20							
						163	Questions							Yes/N	
						164 165	(1) Does y	our company purc	ase copper ore	or concer	strate which is supplied to	o PPC from othe	a supplia?	Yes	
						166	(2) Does y	our company have	the permission	for mini	ng which is required?			NUA	
						167	(If YES	, please provide u	s the copy of th	he permis	sion.)			DOM:	
						169	(3) Does y (If VES	ur company have , please provide u	the licence to it s the copy of th	import th he licence	e copper ore or concentrat	e watch is suppl	ies to PPC?	Not legally	equired
						 (u) IES, please provide us the copy of the licence.) (4) Does your company have the licence to expert the copper ore or concentrate which is supplied to P 						ied to PPC?	Not legally	souired	
						171	(If YES	, please provide u	s the copy of th	he licence	.)				
						171 172 173	(If YES	, please provide u ry Laundering (/	s the copy of th ML) - Comba	ting Fin	.) ancial Terrorism (CFT)				



ESG regulation is constantly evolving and changing...

- New updates almost every month (e.g. IFRS S1, S2; CSRD, CSDDD, CBAM, CA Climate risk disclosure laws)
- Updates in some cases contradict the previous ones (e.g. Omnibus)
- Different requirements in different countries
- The criticality is growing (e.g., penalties, liability)
- Own performance is not enough, supply/value chain should be included
- Cross functional
 expertise required



be-Sirius 3

CSRD as an example with Omnibus Amendments

Complex structure

To comply, Sus teams need to hop between and within standards and supplemental documents to understand the reporting requirements.



Different data types

CSRD requires both qualitative and quantitative data in a specific format, meaning even if you have the data, you'll likely need to transform it in some way.



Continuous updates

EFRAG releases updates and Omnibus even with suggested simplification will add work



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Green Steel Conference 2025

Metal and mining sustainability teams face extraordinary challenges while meeting regulation and other stakeholders requirements



Green Steel Conference 2025

AI helps: It takes on the routine while you focus on impact

As sustainability professionals spend much time on routine tasks and reports, tools like **AI are becoming critical** for automating operations and freeing up time for high-impact initiatives.

Key benefits of using AI:

- Increased Efficiency and Productivity: Huge amount of data processed in minutes
- Cross-Format and Multilingual Document Analysis: Easy to compare/analyse documents in different formats/languages
- Data to Insights: Ability to easily transform data into insights
- **Tailored Solutions:** There are solutions specifically developed for your needs, tailored for gap assessment, reporting and disclosure

Key limitations of using AI:

- Limited Contextual Understanding: Al systems need more nuanced understanding than human. Expertise and judgment of topic specialist are very important.
- Data Privacy and Security: Handling sensitive data with Al demands stringent security measures.
- Bias in Algorithmic: Additional verification algorithms required in identifying and mitigating such biases.

66% Say AI will profoundly change their daily life in the next 3-5

years. While 50% say it already has.

46%

Of Gen Z think AI will replace their job in the next five years compared to 40% of Millennials, 31% of Gen X, and 26% of Baby Boomers. How it works: beSirius replaces static reports with Sustainability Twin™, answering any request in any format



Cuts 65-75% of manual work, delivers unique intelligence

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be—Sirius 7

Key differences between working on sustainability data disclosure with and without AI

Criteria	Without Al	With Al				
Time spent	High	Reduced by 50-70%				
Manual effort	High	Low				
Risk of error	Moderate—High	Low				
Collaboration	Slower, more back and forth	Streamlined within the Al tool				
Insights	Reactive, based on human recall	Proactive: flags trends, gaps, and risks				
Scalability	Difficult	Easily scalable across requests and frameworks				

Top 7 categories requested over the past six months from steel producers, based on data processed through the beSirius platform.



Such analytics helps plan strategic priorities, and it's easily available per stakeholder, company's subsidiary, product, etc.

A global steel company saves 45 hours a week and turned ESG pressure into leverage

Request:

Automate the the sustainability team's tasks:

- · 2-3 requests per week from customers to answer, several ESG ratings questionnaires to fill in
- 5-7 internal requests per week from Risks, Finance and Legal departments
- · gap assessment on meeting regulatory requirements to fulfill

Solution:

- A unique Sustainability Twin[™] was created based on the documents the company has on sustainability topics
- Al algorithm fills in the uploaded requests with the data from Sustainability Twin
- Al algorithm finds gaps the company has in order to meet regulatory and stakeholder requirements
- Sustainability team reviews the filled in requests and shares with external stakeholders, develop and implement road map to work on identified gaps
- · Internal stakeholders have access to Chat and receive answers from Sustainability twin

Results:

- All requests filled in time
- Gap assessment prepared, analytics report provided to management
- Team has more time for valuable sustainability projects and initiatives





Answers in requests filled by AI



45h/week Saved on data processing



be-Sirius 10

Be serious, be sustainable



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