RAIL SUSTAINABILITY INDEX

RSi to help rail with SDGs

- Propose to score UIC members on voluntary basis in the frame of SDGs

- First campaign in 2022 / yearly base / data collection on 3 years open from June to October

- 7 SDGs / 31 Key Performance Indicators (KPIs) / 50 variables (either collected or calculated and consisting of both quantitative figures and qualitative questions)

- Points are given regarding benchmark on average (max 3 points) and trend (max 3 points) for quantitative data. Qualitative data : 2 yes/no questions and one open text to explain (max 3 points). SDGs are weighted

- Outputs : dashboard, individual report and badge

- Global Rail Sustainability report

What 's new in 2023 campaign

4 new indicators

One quantitative

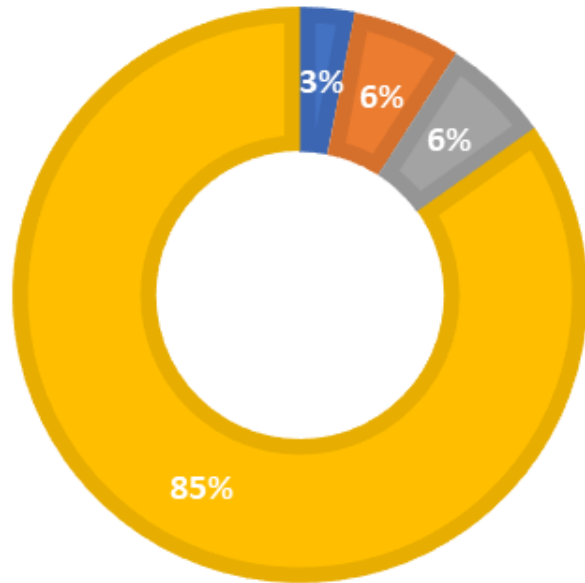- 11.2.2 - Percentage PRM available seats

3 qualitative

- 8.5.2 - Equity pay target

- 8.8.2 - Framework for gender gap : diversity and inclusion report

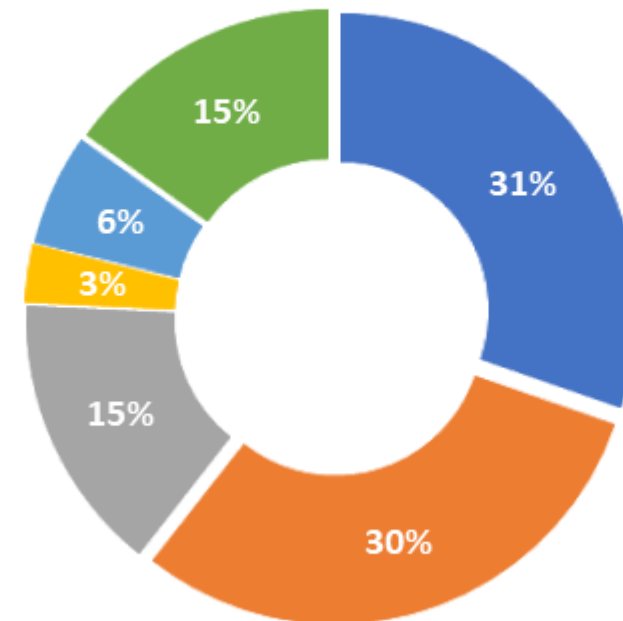- 11.2.3 - PRM access to rail stations
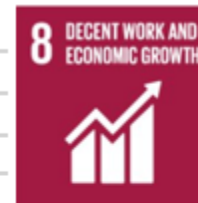
2023 Campaign participation

Example quantitative indicators
work in progress

SDG 9 — Industry, Innovation and Infrastructure / **SDG 8 — Decent Work and Economic Growth** / **SDG 12 — Responsible Consumption and Production** / **SDG 11 — Sustainable Cities and Communities**

	Variable	unit	Average value Rsi 22	Average value Rsi 23	Nb of answers in 2023	Possible answers
8.5.1.3	% Fixed-term	%	9,28	9,98	29	33
9.1.2.4	% of electrified lines	%	60,75	58,01	21	22
11.2.1.4	Safety Index	i.	2,23	2,46	19	22
12.4.1.4	Hazardous waste generated per capita	t per capita	5,29	2,19	22	33
12.5.1.2	Non-hazardous waste sent for recycling	%	73,31	71,52	17	33
12.5.1.4	Reused non-hazardous waste	%	5,88	2,44	12	33

SDG 7 — Affordable and Clean Energy / **SDG 5 — Gender Equality**

	Variable	unit	Average value Rsi 22	Average value Rsi 23	Nb of answers in 2023	Possible answers
5.1.2.4	Women managers	%	25,49	26,72	30	33
5.1.2.9	Women in the workforce	%	22,8	23,02	32	33
5.1.3.4	Women directors	%	27,02	25,67	28	33
7.1.1.1	Total energy from renewable energy	%	58,25	48,25	25	33
7.1.1.2	Energy saving	GWheq / year	86,45	169,09	15	33

SDG 13 — Climate Action

	Variable	unit	Average value Rsi 22	Average value Rsi 23	Nb of answers in 2023	Possible answers
13.1.2.1	Green Bond Ratio	%	11,32	10,92	14	33
13.1.2.2	Green Debt Ratio	%	13,02	12,36	13	33
13.1.1.5	Total direct CO_2 emissions (scope 1) by revenues	tCO_2e	102,49	49,35	26	33
13.1.1.6	Total indirect CO_2 emissions (scope 2 - location based) by revenues	tCO_2e	118,03	70,56	23	33
13.1.1.7	Total indirect CO_2 emissions (scope 2 - market based) by revenues	tCO_2e	68,74	57,45	21	33

Example qualitative indicators - work in progress

SDG 5 - Non-discrimination framework/code	Yes	No
1. Do you have a written non-discrimination code or policy in place? (Defined for instance, after a due diligence) - (Indicator)	31	1
2. Do you monitor the effectiveness of that code? - (Indicator)	30	2
3. If you have answered yes to either of the above questions, could you please describe the main principles of the code, how it is monitored and the result of that monitoring? - (Indicator)	30 descriptions	

SDG 8 - Health and safety policies/system	Yes	No
1. Do you have an health and safety management system in place? - (Indicator)	30	1
2. Is the system certified (i.e. ISO45001)? - (Indicator)	15	16
3. Please describe the activities covered by this system - (Indicator)	27 descriptions	

Final outputs for members

- Scoring dashboard *confidential*

- Badge *confidential*

- Individual report *confidential*
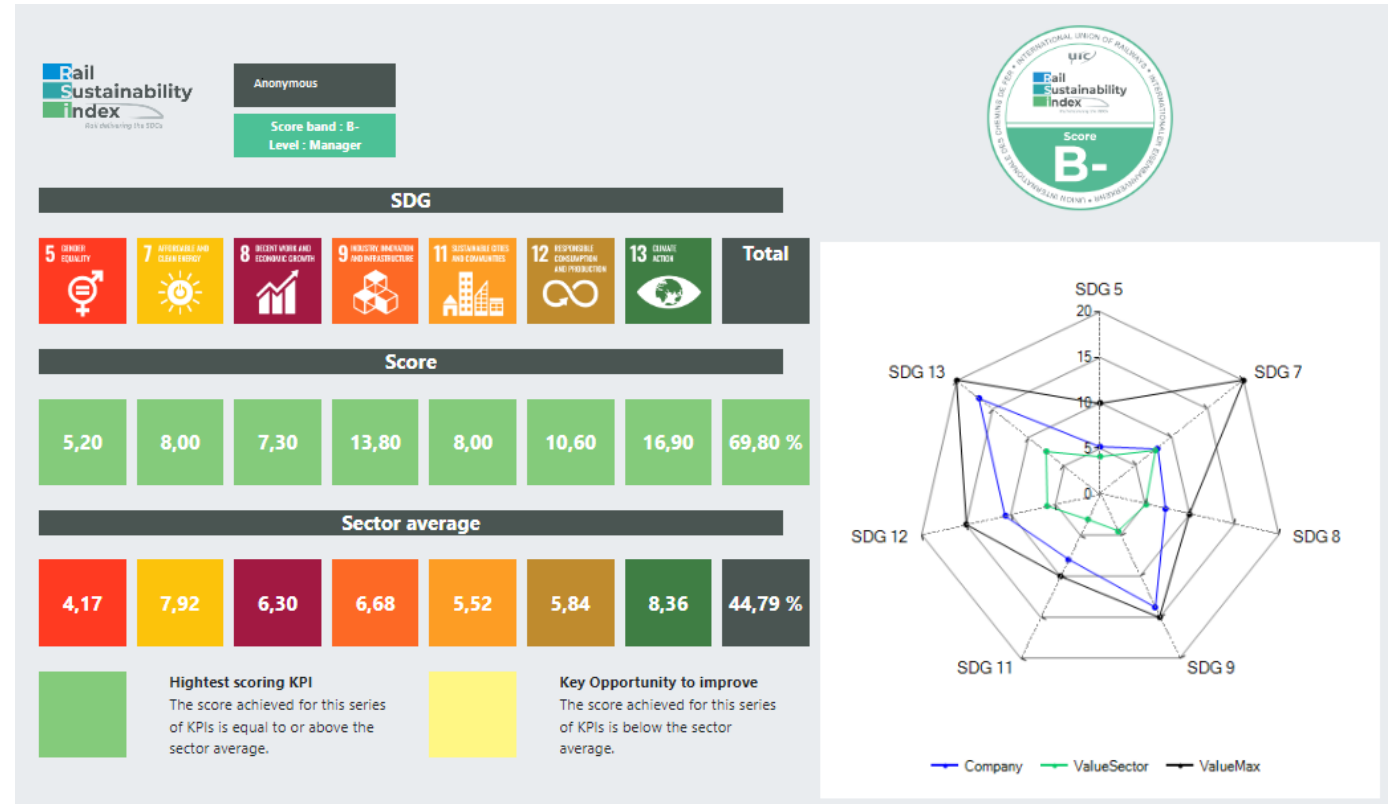
- Global Rail Sustainability report
  2022 https://uic.org/IMG/pdf/global-rail-sustainability-report-2022.pdf
  Next report to be issued in Sept 2024

Data availability

- Some data can be taken from Railisa :
    % women in the total workforce - SDG 5,

    % electrified lines - SDG 9 ,

    Passenger.Km - SDG 9,

    Tonne.Km - SDG 9 , etc.

https://uic-stats.uic.org/select/

- UIC Safety WG; safety Index SDG 11

https://safetydb.uic.org/IMG/pdf/uic_safety_report_2023.pdf

https://uic.org/safety/safety-performance-group-safety-database/

UIC SAFETY UNIT
UIC Safety Report 2023
Significant Accidents 2022
Public Report

October 2023

INTERNATIONAL UNION
OF RAILWAYS

2022 Global Rail Sustainability report
https://uic.org/IMG/pdf/global-rail-sustainability-report-2022.pdf

https://uic.org/sustainability

REPORT METHODOLOGY

The report is a synthesis of the most recent data from a range of UIC databases, including the UIC RAIL Information System and Analyses (RAILISA), the Rail Sustainability index (RSi), the Traction Energy and Emissions Database (formerly the Environment Strategy Reporting System, ESRS) and the UIC International Sustainable Rail Awards. The document is also supported by literature, data and reports from several international organisations, including the United Nations (UN), the International Energy Agency (IEA), the European Commission, the European Union Agency for Railways (ERA), and the Community of European Railways and Infrastructure Companies (CER). It should be noted that the data sources come predominantly from the global North and from Europe, often due to a lack of data from other regions of the world, although the global situation is given wherever available.

THE RAIL SUSTAINABILITY INDEX

The UIC Rail Sustainability index (RSi) was launched in 2022. The RSi is a benchmarking tool that measures the sustainability performance of rail using the framework of the United Nations Sustainable Development Goals (UN SDGs).

The RSi is made up of a set of Key Performance Indicators (KPIs) which provide UIC members with a unique rating, presented as a dashboard, to keep track of progress supporting a range of these SDGs. A materiality assessment was carried out by a working group against all 17 goals to establish a shortlist of those most directly aligned to rail activities, and where a contribution can be easily demonstrated by the members. The following were deemed most relevant:

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RAILISA STAT UIC https://uic-stats.uic.org/select

Annexes

Data collected for 7 key SDGs

Prioritization of SDGs: 7 relevant goals for the rail transport selected among 17
➢ Indicators aligned with global reporting standards (GRI) and ESG requirements

SDG 5 - Achieve gender equality and empower all women and girls
➢ Non-discrimination framework/code, Women by level of responsibility, Women in Governance bodies

SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all
➢ Energy consumption, Share of renewable energy, Targets

SDG 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
➢ Total number of employees by employment contract, Health and safety policies/system

SDG 9 - Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation
➢ Electrified lines, Climate-related risks, Rail infrastructures and climate change

SDG 11 - Make cities and human settlements inclusive, safe, resilient and sustainable
➢ Rail accidents

SDG 12 - Ensure sustainable consumption and production patterns
➢ Sustainable procurement clauses, Hazardous waste, Reused/recycled waste, Sustainability reporting, Environmental management system
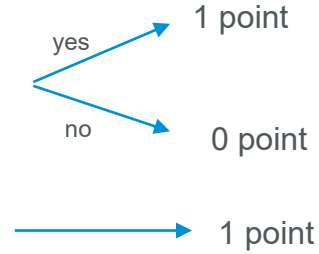
SDG 13 - Take urgent action to combat climate change and its impacts
➢ CO_2-eq emissions direct and indirect, Green bond/debt ratio, Board-level oversight of climate-related issues, Emission targets, Collaborating with governments
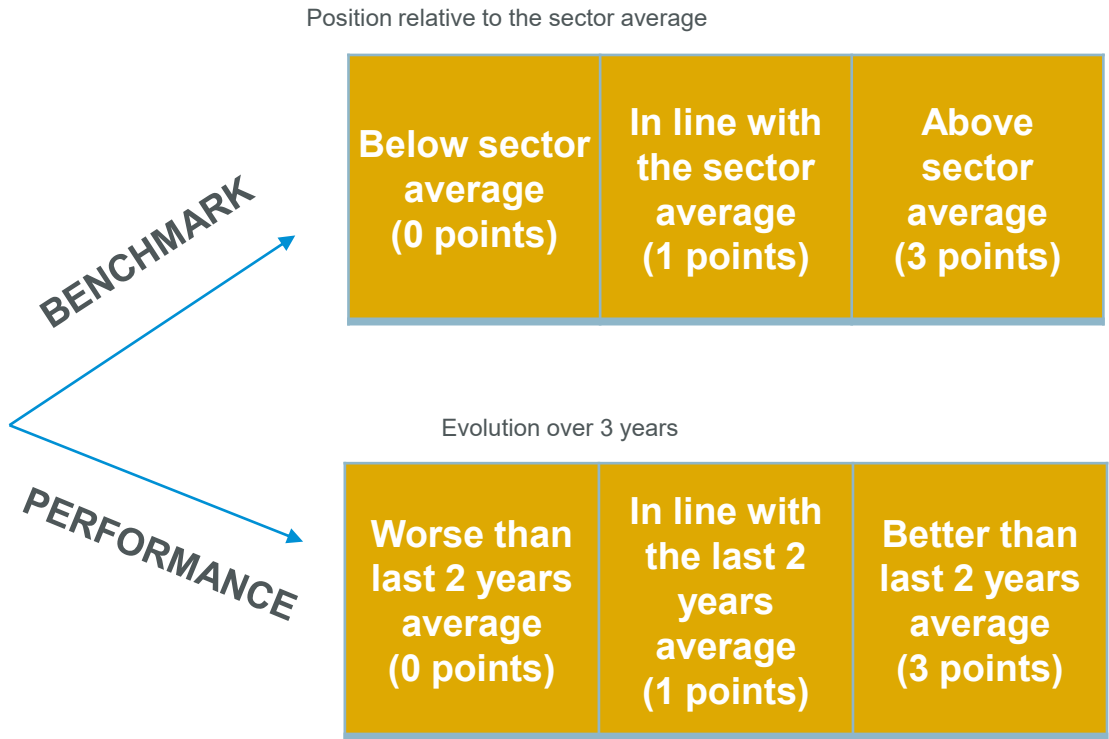
Scoring method (1/2)

QUALITATIVE

- 2 «yes / no» questions

yes → 1 point

no → 0 point

- 1 open-ended question → 1 point

MAX 3 POINTS

QUANTITATIVE

BENCHMARK

Position relative to the sector average

Below sector average (0 points)	In line with the sector average (1 points)	Above sector average (3 points)

PERFORMANCE

Evolution over 3 years

Worse than last 2 years average (0 points)	In line with the last 2 years average (1 points)	Better than last 2 years average (3 points)

MAX 6 POINTS

Scoring method (2/2)

SDG weight based on the prioritisation phase results

SDG Rail Index	Total max number of points	SDG weight
SDG 5 - Achieve gender equality and empower all women and girls		10%
SDG 7 - Ensure access to affordable, reliable, sustainable and modern energy for all		20%
SDG 8 - Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all		10%
SDG 9 - Build resilient infrastructure, promote inclusive and sustainable industrialization and foster innovation		15%
SDG 11 - Make cities and human settlements inclusive, safe, resilient and sustainable		10%
SDG 12 - Ensure sustainable consumption and production patterns		15%
SDG 13 - Take urgent action to combat climate change and its impacts		20%
Company SDG Rail Index score		**100%**

$$SDG\ score = \sum_{1}^{7}\left(\frac{company\ points}{\max points} \ X\ SDG\ weight \right)$$

Level	Score %	Score band
Beginner	1-20	D-
	21-30	D
Pursuer	31-46	C-
	47-55	C
Manager	56-70	B-
	71-82	B
Leader	83-90	A-
	91-100	A