# Landsnet Annual Report 2022



#### **ANNUAL REPORT 2022**



### LANDSNET

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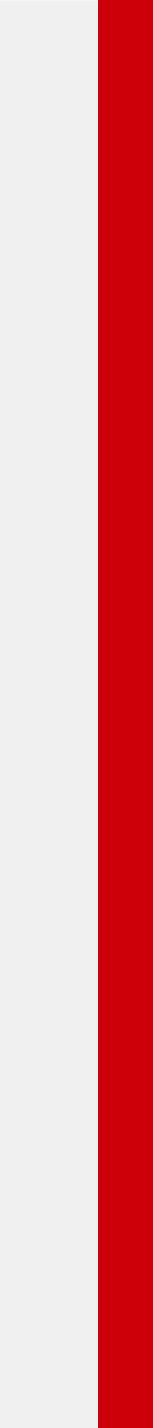
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# The future is bright

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The future is bright Key indicators Stable operations Human resources

Workplace **Business environment** Continuous improvement Security of supply Society

### LA**N**DSNET





### Landsnet's people, the projects that brought us closer to the energy transition, and our rapidly changing environment are the highlights of 2022. There is a need for a change in approach and methods. The operation of the transmission network, whether it's ensuring the security of supply, protecting the environment, or maximising efficiency, is a tremendous responsibility. It is an exciting time for our company, and our annual report

shows its strength and ability to move forward under new ownership.

Future opportunities await us, and we are ready to take them on together.

Guðmundur Ingi Ásmundsson, CEO at Landsnet Sigrún Björk Jakobsdóttir, Chairman of the Board

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## The Board of Directors

Landsnet's Board consisted of the following individuals at the end of 2022:

### Sigrún Björk Jakobsdóttir

Chairman of the Board Eggert Benediktsson Board Member

### Ólafur Rúnar Ólafsson

Board Member Svava Bjarnadóttir

Board Member



# The five words

**Our Vice Presidents agreed** that if the year could be summed up in five words, they would choose these:

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Collaboration

### **CONSTRUCTION AND GRID SERVICES DIVISION**

Hólasandslína Line

Weather effects





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# Our role

Secure and uninterrupted electricity is one of the main pillars of modern society, and our role is to ensure the efficient operation and maintenance of the transmission network.

# **Future vision**

Our future vision is: **AN ELECTRIFIED FUTURE IN TUNE WITH SOCIETY.** 

# Policy

### **INGENIOUS**

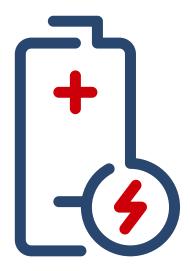
We operate in a continually evolving environment, ready to meet the technological changes ahead. We do this through increased automation and digital solutions. Increased insight and analytical ability facilitate informed decision-making. The flexibility of electricity and innovation within a constantly evolving electricity market enable us to meet future challenges.

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# RESPONSIBLE

We are responsible for an integral part of Iceland's infrastructure. The secure supply of electricity is an essential part of our operations. We can achieve this through transparent, informed decision-making, effective communication, and cooperation. We ensure continuous operations where project management is guided by associated risk. Environmental issues are a priority, and we never take risks regarding personal safety. We use organised work practices. We believe in continuous improvement based on international management standards, meeting the relevant legal and other requirements related to our operations.

# Policy

### EFFECTIVE

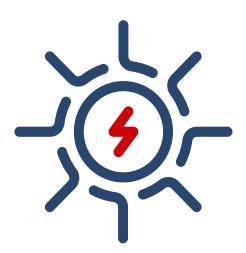
We are entrusted with a valuable commodity and expected to provide good service, efficient operations, and stable tariffs. We strive to do better. Continuous improvement is a crucial factor in achieving efficiency in processes and the successful development and operation of the electricity system. We want to simplify our processes to benefit customers and better use their resources and ours. Environmentally friendly solutions help us to utilise resources efficiently.

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### **AMBITIOUS**

We want to create a sought-after workplace where care, equality and employee safety are paramount. We want to create a positive workplace culture and a strong team spirit. We are ambitious and work hard to create incentives for success and progress. We are a progressive, knowledge-based company that focuses on developing the talent and skills of our employees. We support all our employees in developing work opportunities and seeking further education.

# Landsnet's owners

New owners were introduced at the end of 2022. Landsnet is now owned mainly by the nation. 2022

Landsvirkjun 64.73%

Orkubú Vestfjarða 5.98%

Orkuveita Reykjavíkur 6.78%

RARIK 22.51%

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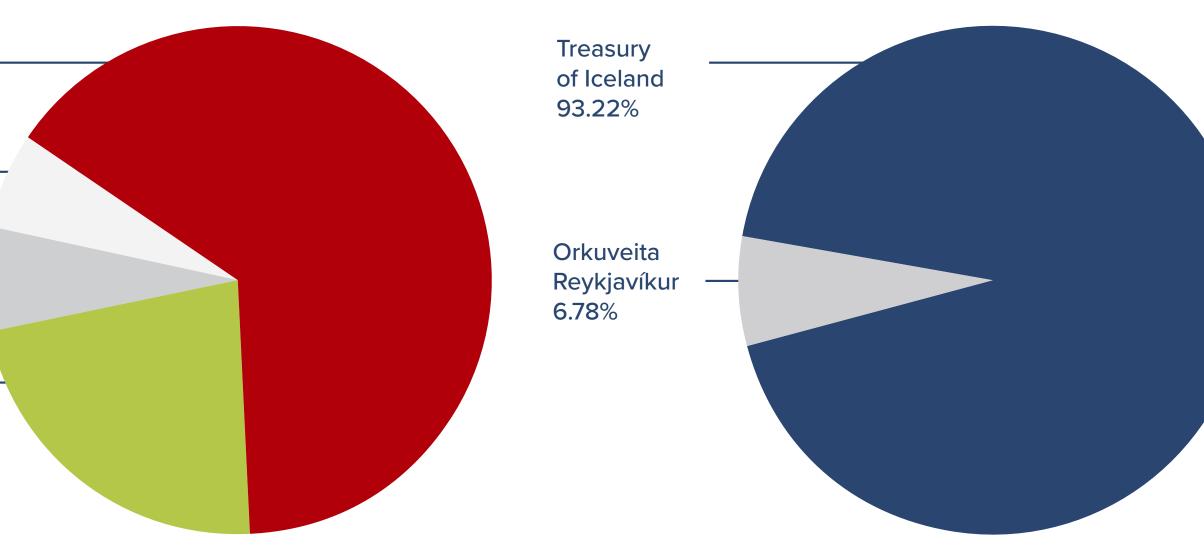
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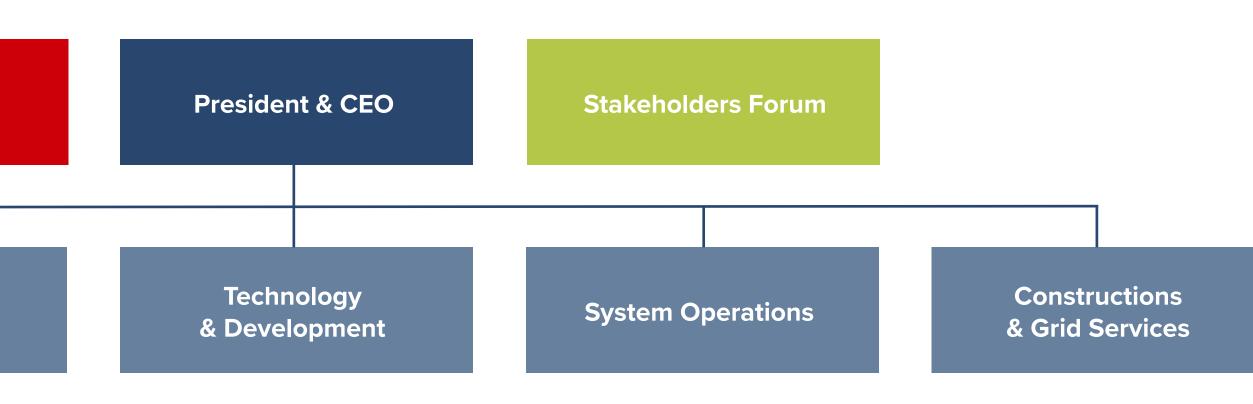
**Corporate Services** & Communications

**Customer Forum** 

Finance

### 2023







# Key indicators

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### Landsnet has defined six key indicators that reflect its promises to its stakeholders.



# Indicators

Indicator	Promise	Results 2019	Results 2020	Results 2021	Results 2022
Security of supply	99.9905%	99.9831%	99.9977%	99.9990%	99.9926%
Customer satisfaction	4.2	4.0	3.9	4.0	4.1
Return on equity	8.0%	7.4%	6.9%	8.1%	6.8%
Carbon emissions Scope 1	3,127	2,928	4,002	3,574	3,249
Dedicated team	4.3	4.3	4.3	4.2	4.0
Accident	0	0	0	0	0

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# Stable operations

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### The results of the Financial Statement indicate the company's financial strength and that it is well-positioned to deal with the challenges that lie ahead in the energy sector. Cash from operations is substantial, the company's return on equity is 6.8%, and the equity ratio is 46.7%. As the transmission system needs considerable development in the coming years, financial strength and stability are vital for continued success.

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# Key figures

### Key figures (amounts in USD thousands)

Output (GWh) Transmission losses (GWh) Transmission losses as a ratio of input

Operating revenue Investing activities Investing activities as a ratio of operating revenue

Earnings before interests and taxes (EBIT) EBIT as a ratio of operating revenue General operating cost \* General operating cost as a ratio of operating reven Profit Profit as a ratio of operating revenue

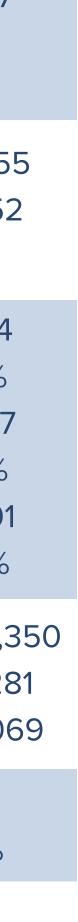
Assets Equity Liabilities

Return on equity Equity ratio

Length of overhead transmission lines (km) Length of underground and sub-sea cables (km)

Full-time equivalent positions at year end

	2018	2019	2020	2021	2022
	18,855	18,491	18,105	18,346	18,807
	398	366	353	388	384
	2.1%	1.9%	1.9%	2.1%	2.0%
	154,139	140,331	130,470	149,750	162,755
	34,172	43,889	87,096	89,588	45,052
	22%	31%	67%	60%	28%
nue	61,052	50,184	46,577	58,995	55,104
	39.6%	35.8%	35.7%	39.4%	33.9%
	36,911	36,840	33,140	37,056	39,377
	23.9%	26.3%	25.4%	24.7%	24.2%
	37,134	30,307	27,328	35,575	32,501
	24.1%	21.6%	20.9%	23.8%	20.0%
	846,332	852,307	911,438	1,020,176	1,032,3
	370,303	391,311	404,848	470,557	482,28
	476,029	460,996	506,590	549,619	550,06
	10.5%	8.0%	6.9%	8.1%	6.8%
	43.8%	45.9%	44.4%	46.1%	46.7%
	3,099	3,099	3,088	3,199	3,251
	234	260	270	327	361
	120	135	137	141	152



# **Main Results** of the Financial **Statement**



**SEE FINANCIAL** 

STATEMENT

2022

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Total assets amounted to 1,032.4 million USD at year-end compared with 1,020.2 million USD in 2021.



32.5 Profits

Profits were 32.5 million USD in 2022 compared with 35.6 million USD in 2021.



55.1

### **Earnings Before** Interest and Taxes

Earnings Before Interest and Taxes (EBIT) was 55.1 million USD compared with 59.0 million USD in the previous year.



Net cash availability

Net cash availability was 26.3 million USD at year-end, and net cash provided by operating activities amounted to 73.0 million USD.



1,032.4

Total assets



482.3

**Total equity** 

Total equity amounted to 482.3 million USD at year-end, and equity ratio was 46.7%.



6.8%

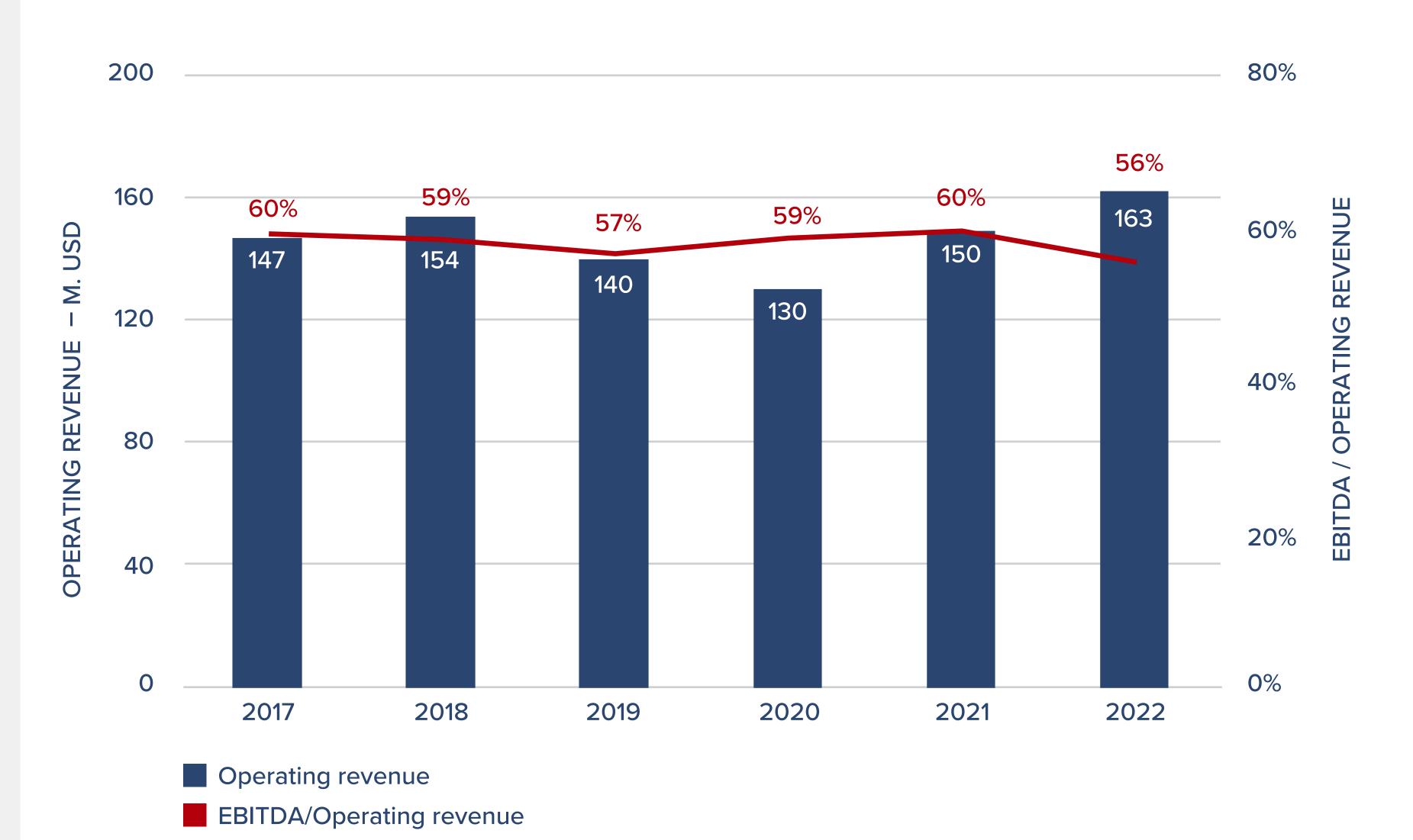
The annual rate of return

The annual rate of return was 6.8% in 2022.





### **Operating revenue** and **EBITDA**



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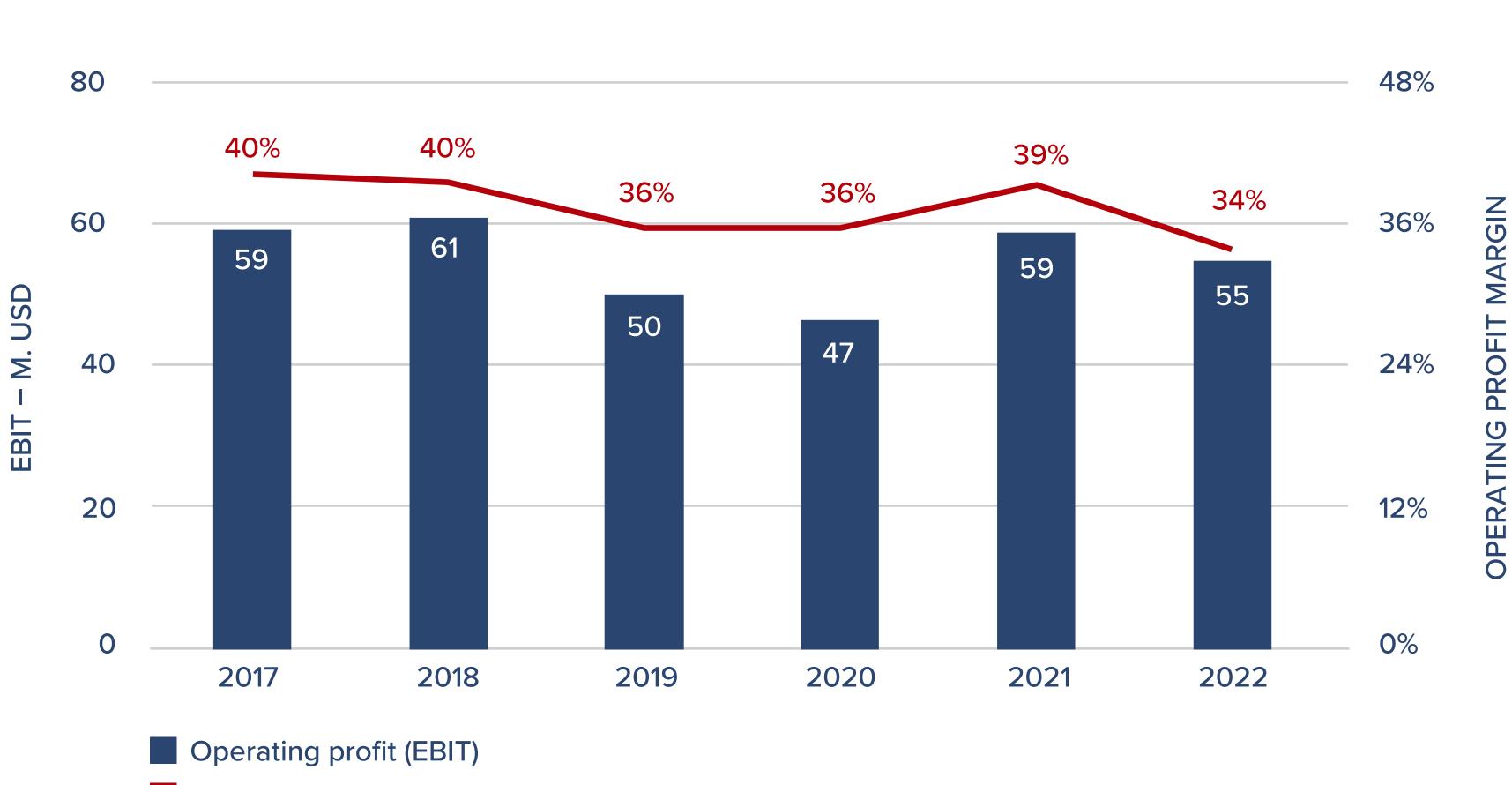
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# **EBIT** and operating profit margin



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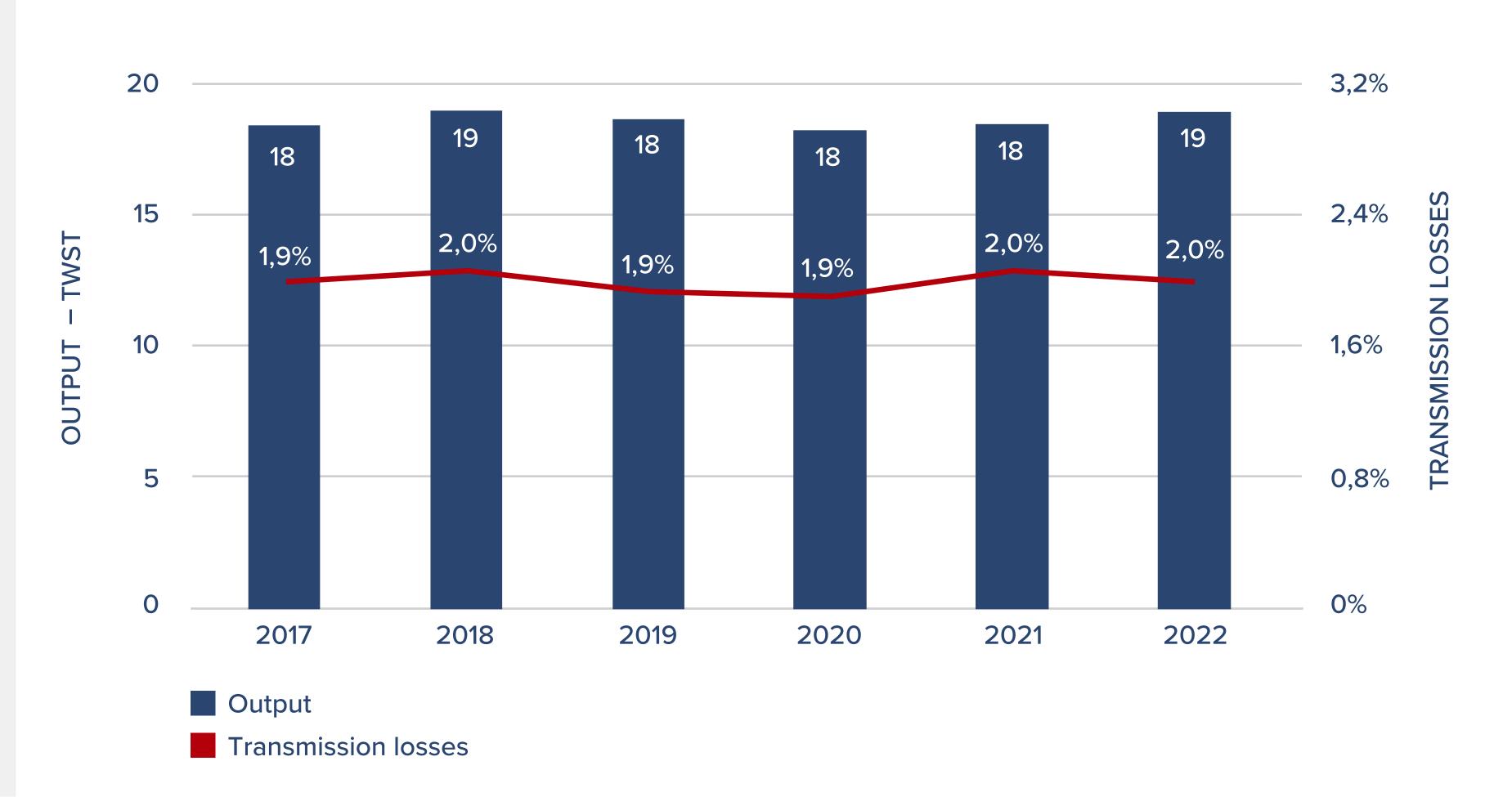
Operating profit margin

# **Transmission output** and system losses



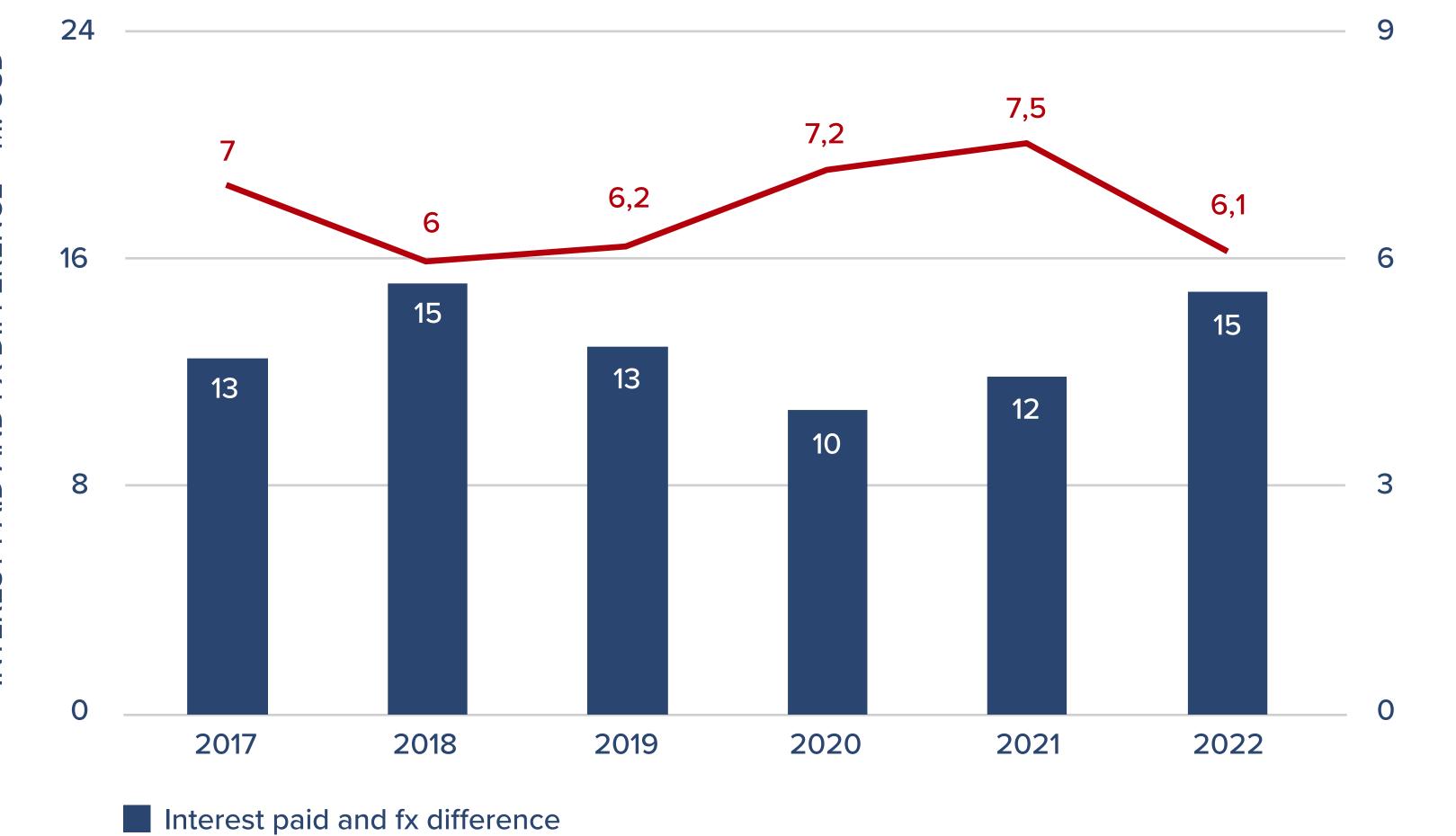
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# Interest paid and Interest rate coverage

Interest rate coverage ratio



M. USD PAID AND FX DIFFERENCE INTEREST

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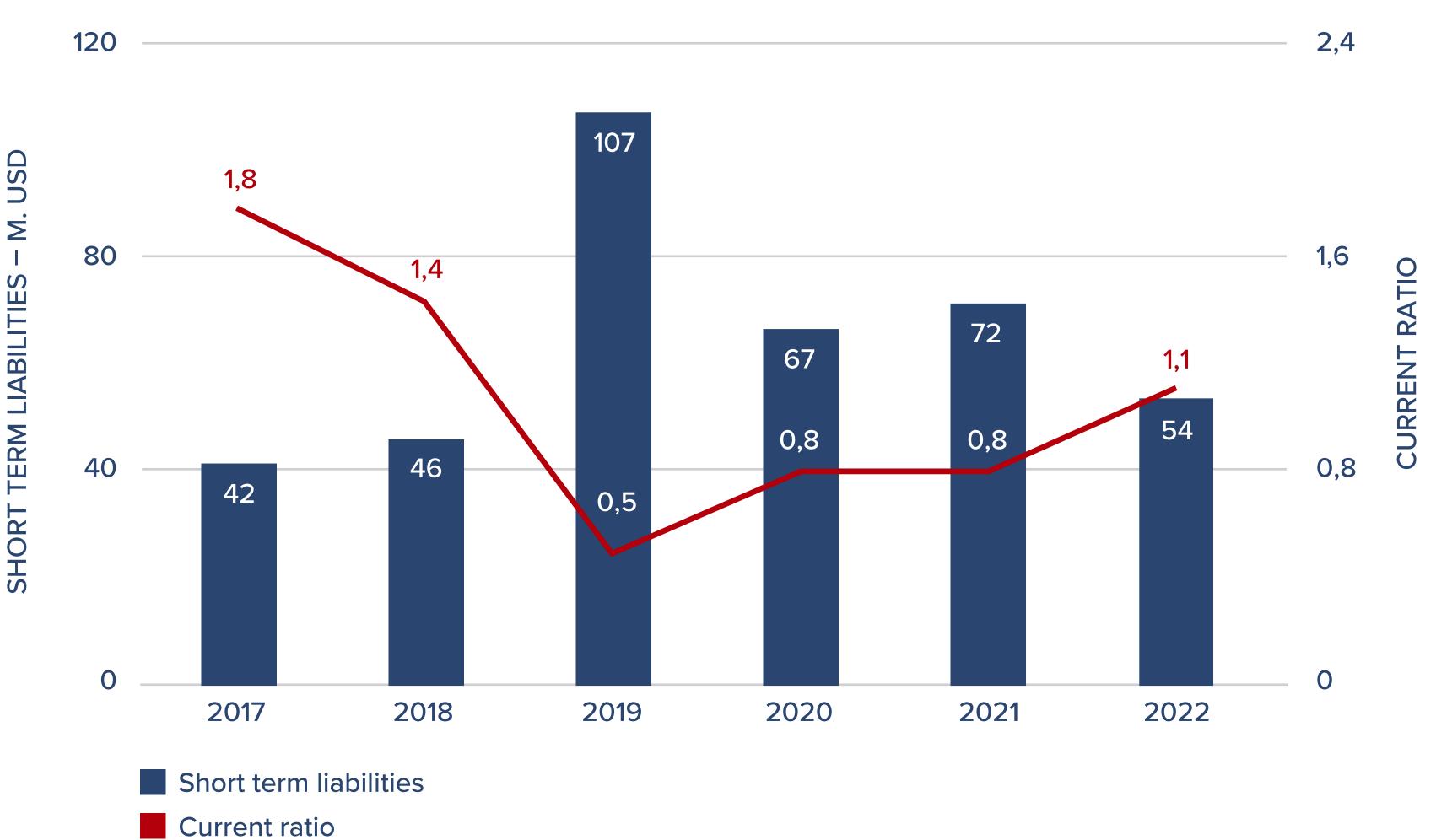
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RATE COVERAGE RATIO

INTEREST

# **Short term liabilities** and current ratio



# Ś **TERM LIABILITIES SHORT**

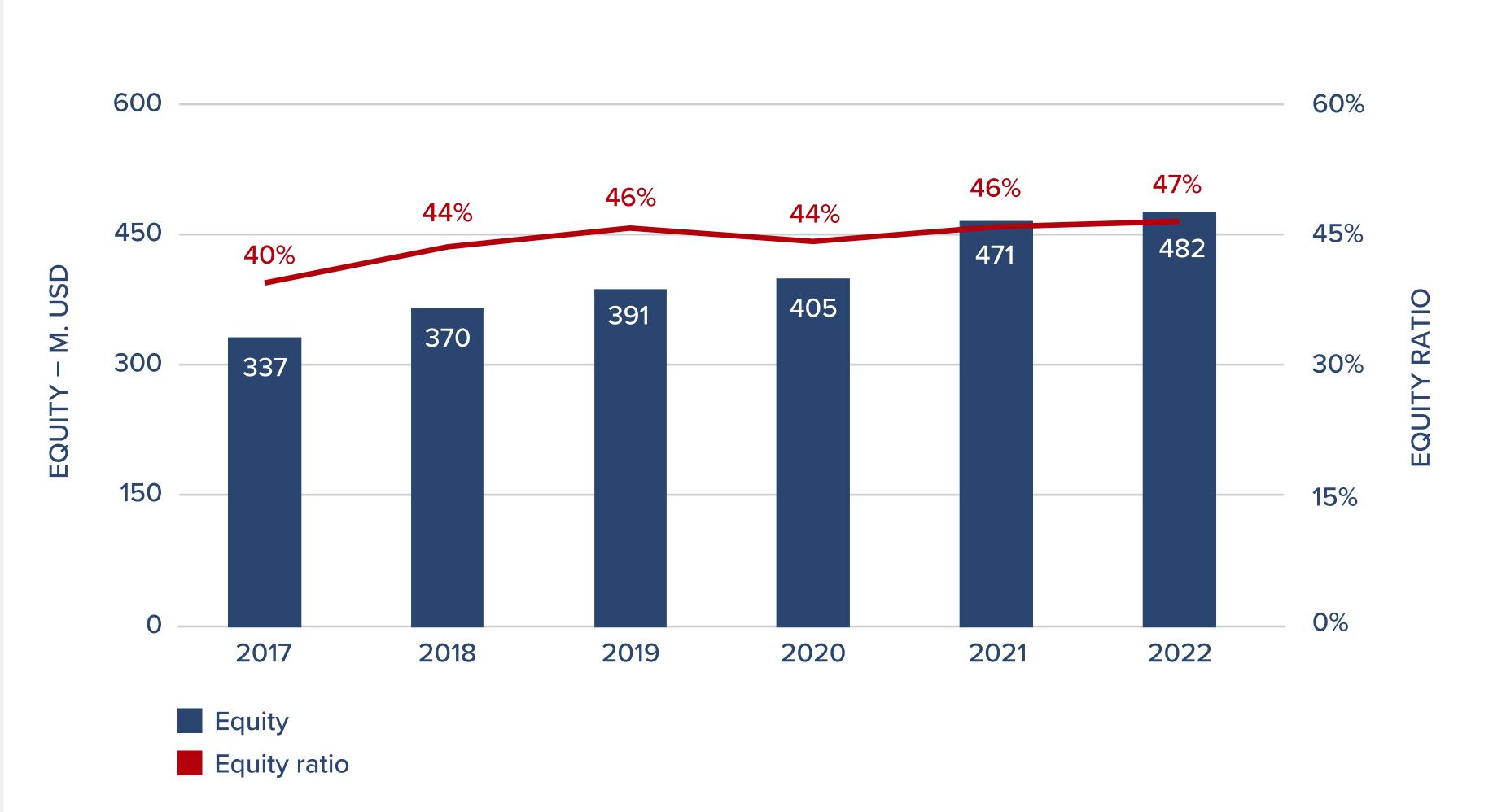
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# Equity and Equity ratio



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### Human resources

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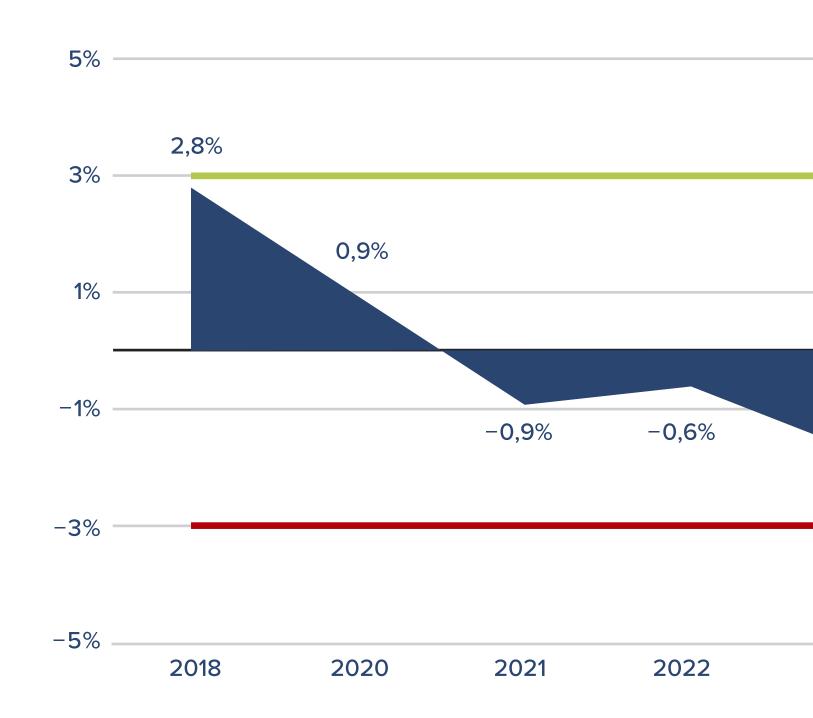


Landsnet welcomed 19 new members to its rapidly growing team this year. We also said goodbye to 11 employees and thank them for their hard work.

# Equality

Landsnet's wage analysis for 2022 found no unex-Training and education are always our priority, from lectures on happiness to safety courses. plained salary differences and an insignificant deviation of 1.7% in favour of women.

### EQUAL PAY ANALYSIS



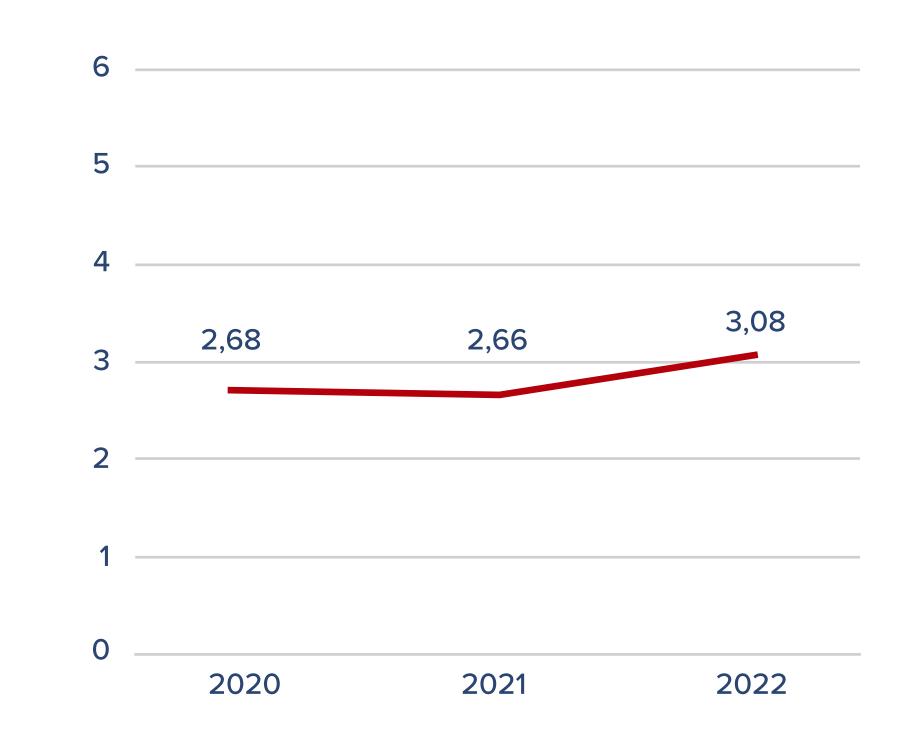
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# **Education and training**

### CEO PAY RATIO



2023

-1,7%

### Human resources

### 157

Total number of employees

### 47 years

Average age of employers

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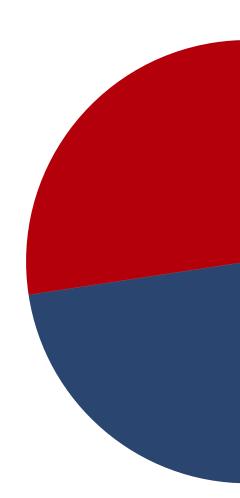
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### **11** years

Average length of employment

**40%** 

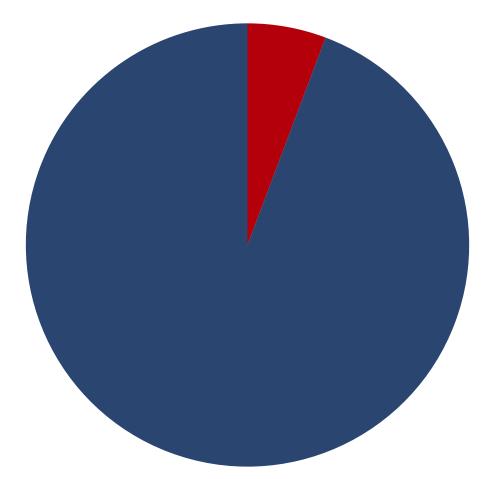
Women's share of new hires



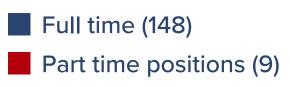
Male (114)

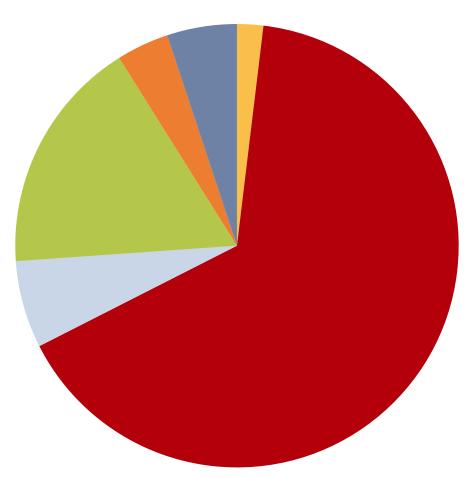


Female (43)



#### FORM OF EMPLOYMENT



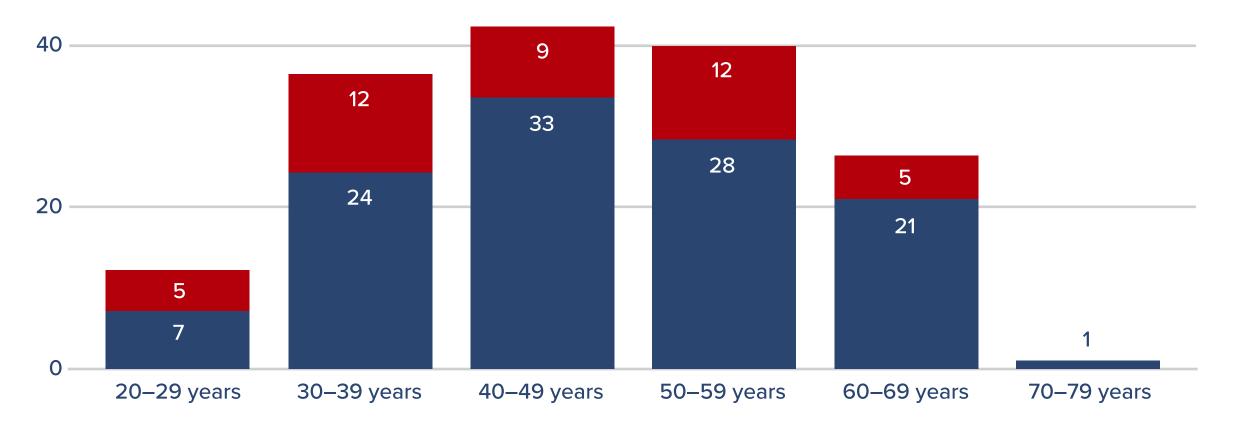


#### **EMPLOYEE EDUCATION**

- University education (103)
- Diploma (10)
- Vocational education (27)
- Intern (6)
- Junior college education (8)
- Compulsory school education (3)

### Human resources

### **AGE DISTRIBUTION**

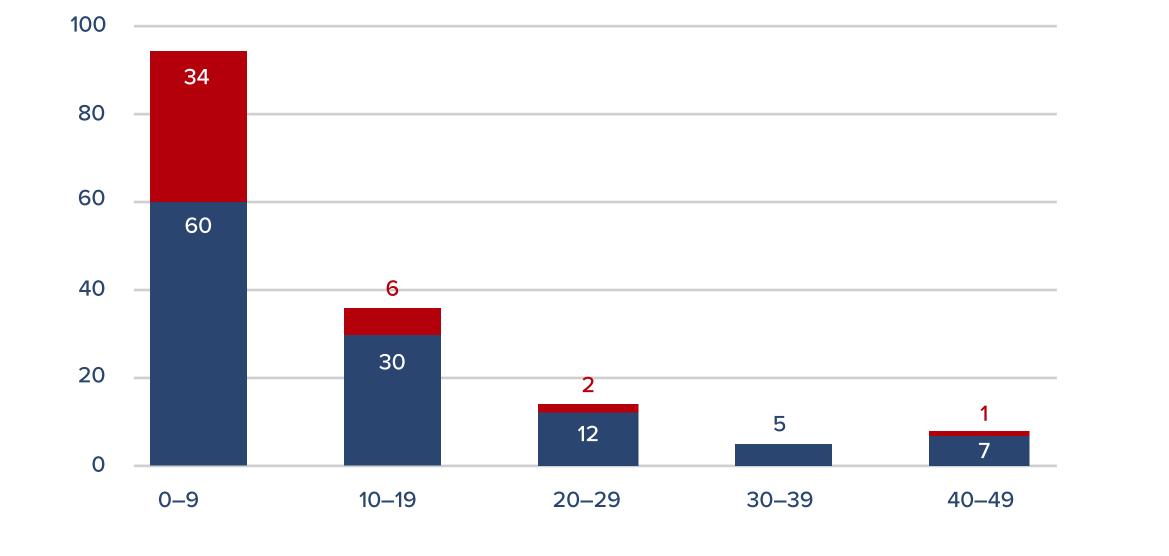


#### LENGTH OF EMPLOYMENT DISTRIBUTION

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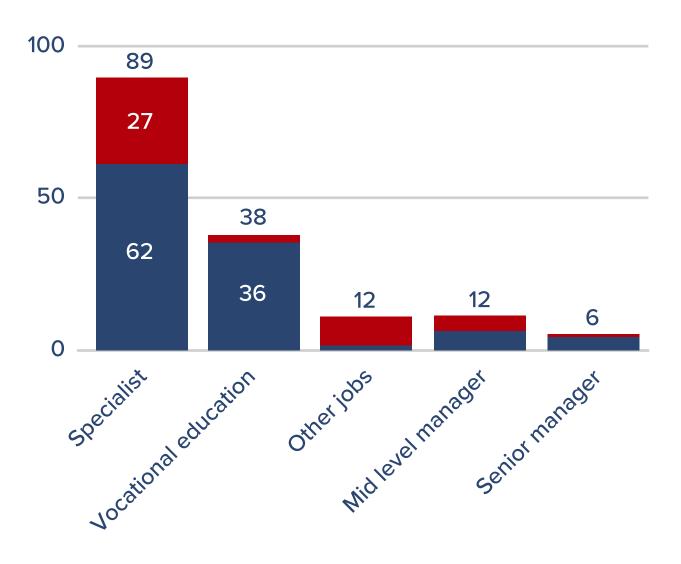
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#### **JOB CATEGORIES**



### The Workplace

8 88 A



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We employ people with diverse backgrounds and educations who work on exciting projects related to the electricity system's construction, development, and operation.

# Workplace culture

Last year's key project was the cultural road trip, used to implement various changes at Landsnet. Our leaders have undergone extensive training this year, and we all received training in constructive communication. Out of **150** employees, **71** have received coaching through LSI.



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# VERTU NJESOSAĐRA

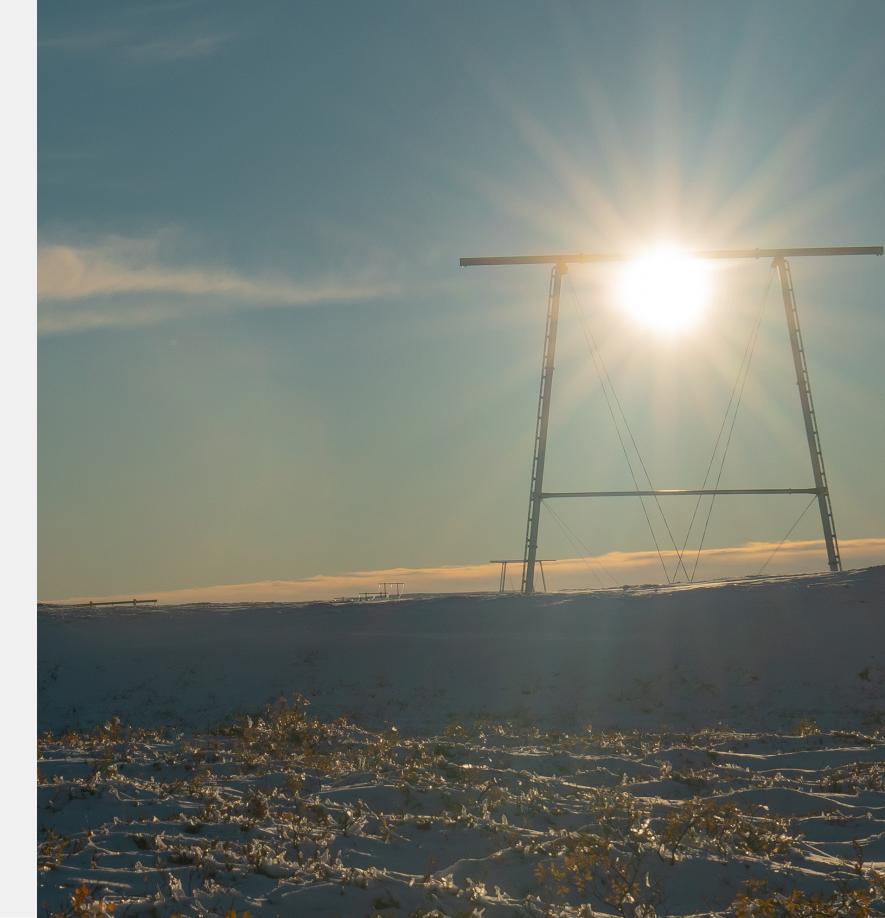


## Business environment

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We have 23 customers, five distribution companies, ten power-intensive users and nine electricity sellers (six electricity producers and three electricity brokers). About 80% of all inquiries were from users, while 20% were from electricity producers. Three meetings were held in Landsnet's business council.

# **Business environment**

Distribution System Operator (DSO)	Producers	Energy intensive users	<b>Energy Traders</b>
HS Veitur	Fallorka	Alcoa	N1
Norðurorka	HS Orka	AtNorth	Orka heimilanna
Orkubú Vestfjarða	Landsvirkjun	Borealis Data Center	Straumlind
Rarik	ON	Elkem	
Veitur	Orkubú Vestfjarða	Fjarðaál	
	Orkusala	Norðurál	
		PCC	
		Reykjavík DC	
		Rio Tinto á Íslandi	
		TDK Foil Iceland	
		Verne	

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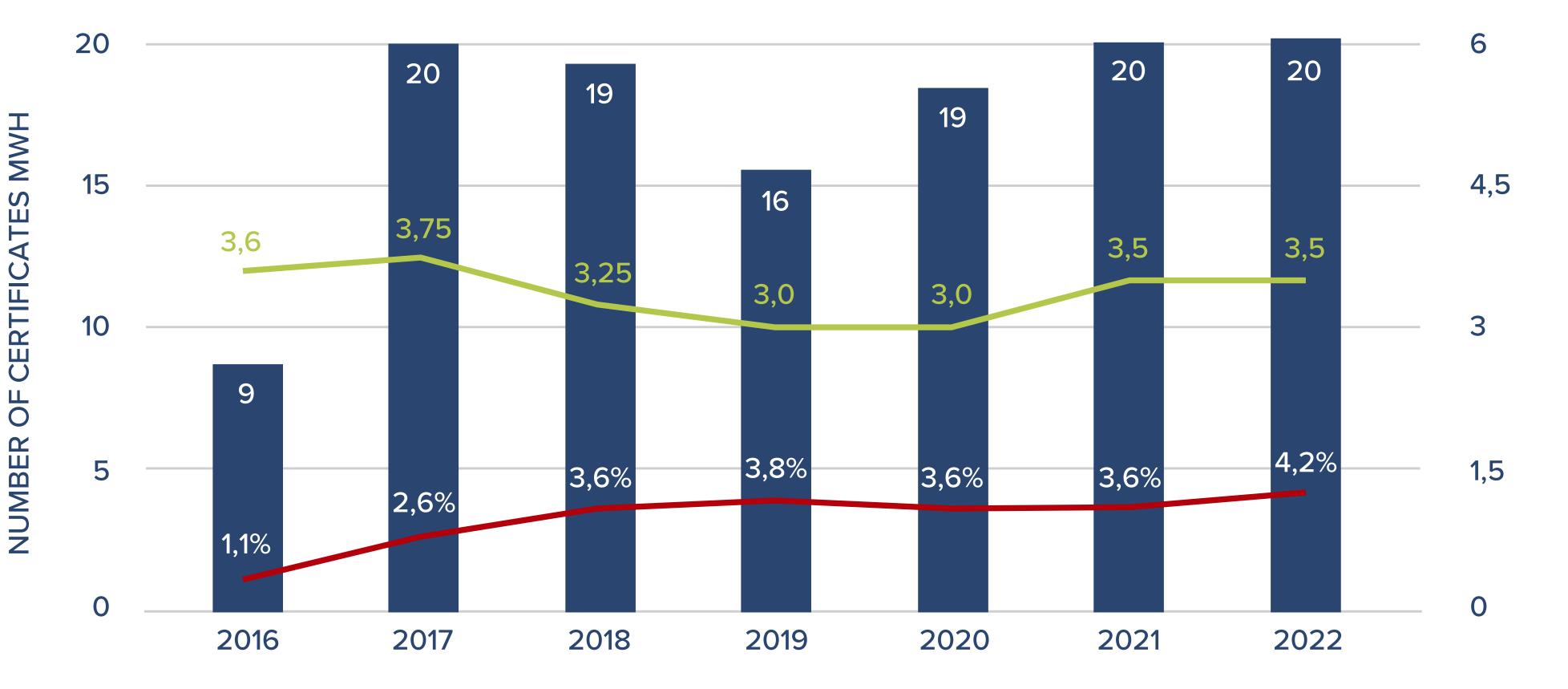
# **Guarantees of Origin**

Total Issued [MWh] Cancelations [MWh] Fee [KR./MWh]



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# Continuous improvement

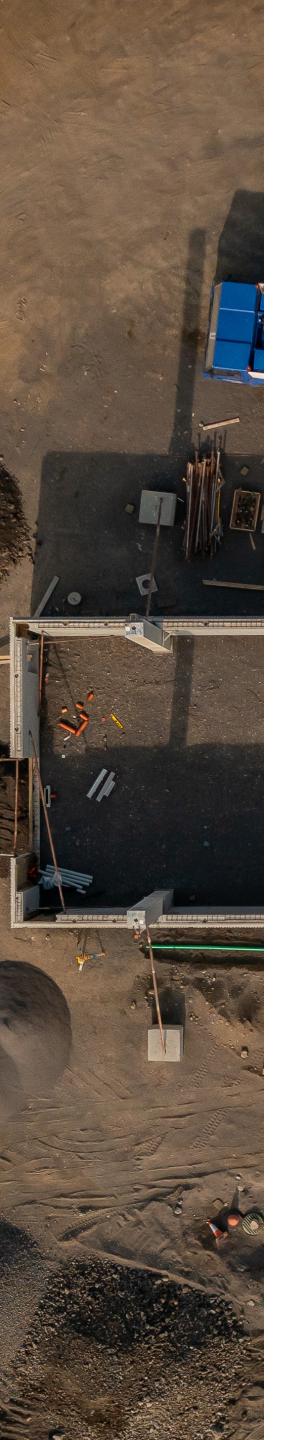
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In addition to our environmental policy and working systematically to reduce our activities' environmental impact, we also have a certified environmental management system according to the international standard ISO14001:2015.

### Management systems

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## What goals did we achieve?



# 2022

Maintenance certification

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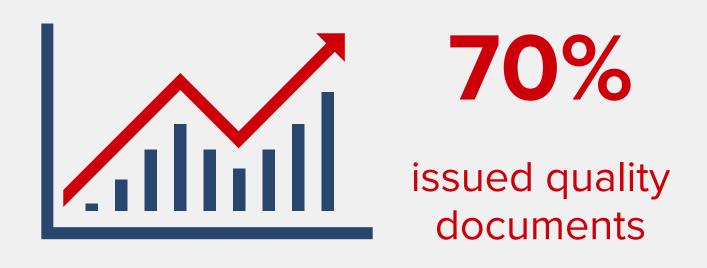
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increase in registration of issues







internal audits

# **Risk management**

In recent years, we have worked systematically to build stronger foundations for risk assessment in operations and development, among other things, through plans for continuous operations.

Our policy is to create an accident-free workplace. There were no absence-related incidents in 2022.

- **104** safety meetings to prepare operation and maintenance projects
- **O** absence-related incidents
- **40** reform proposals were implemented
- 50 educational modules on protection and working methods in risky projects

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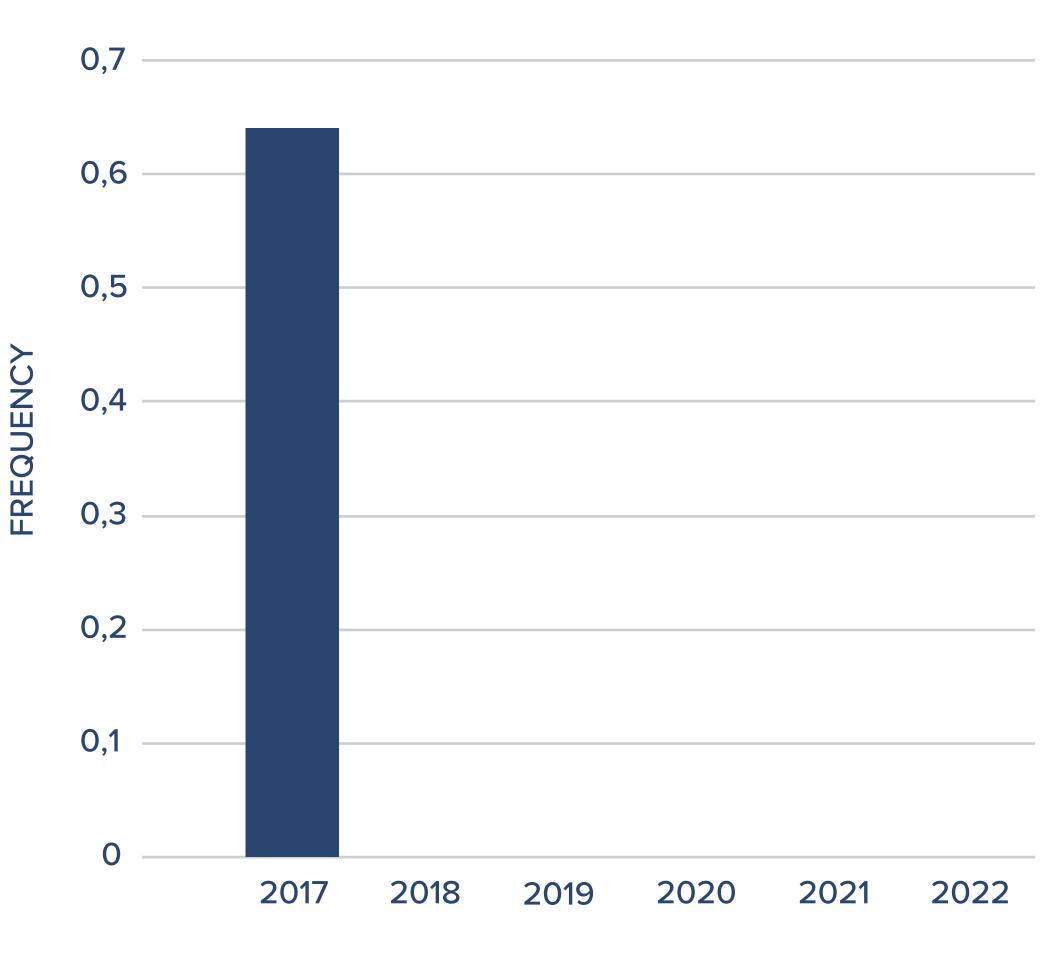
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### **Continuous improvement**

Security of supply Society

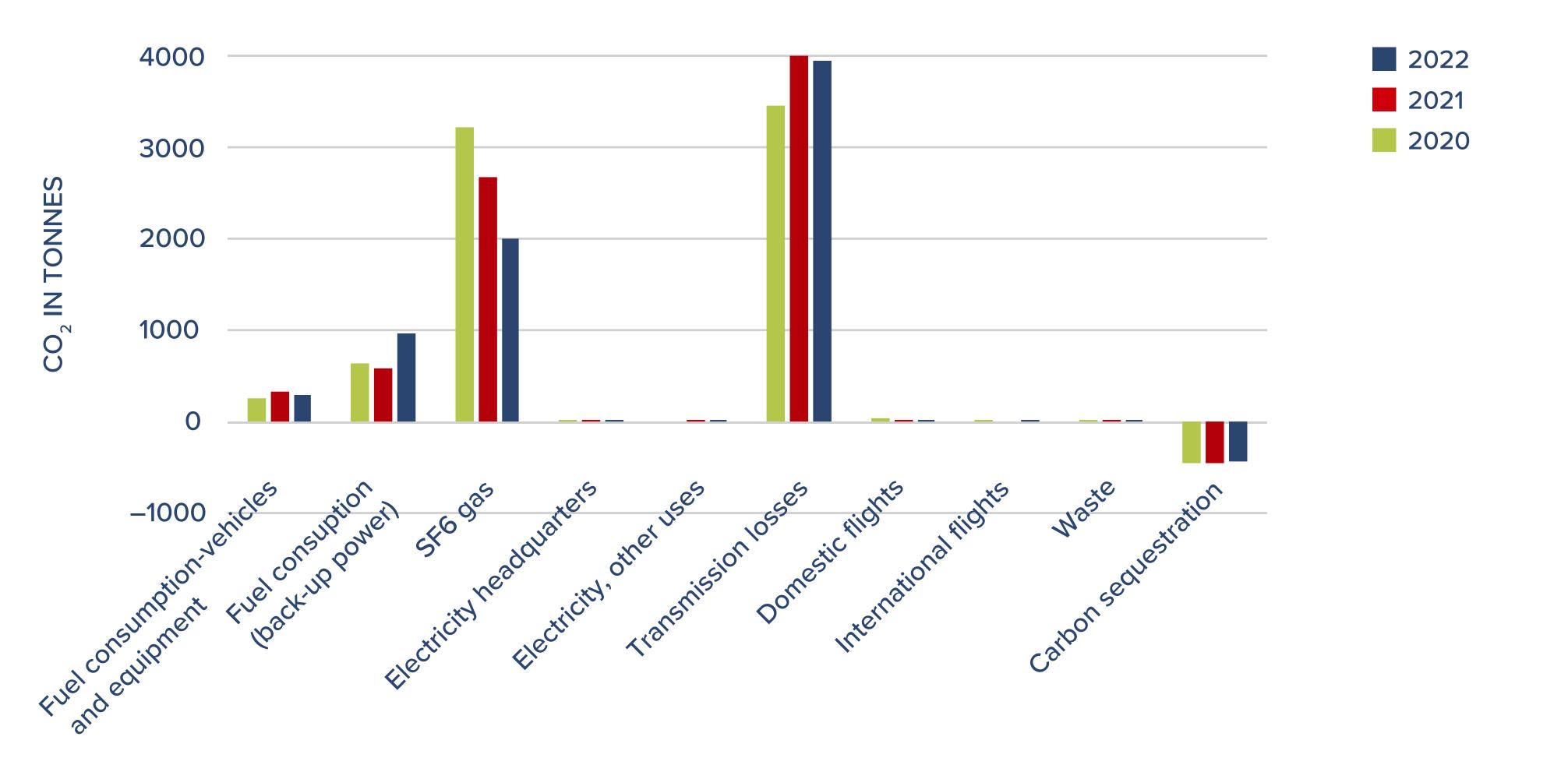
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### THE LOST TIME INJURY FREQUENCY RATE (LTIFR) IN LANDSNET'S OPERATIONS



# Carbon footprint

One of our key indicators is carbon emissions. We have set measures and targets for monitoring emissions development and set 2030 as our carbon neutrality goal.



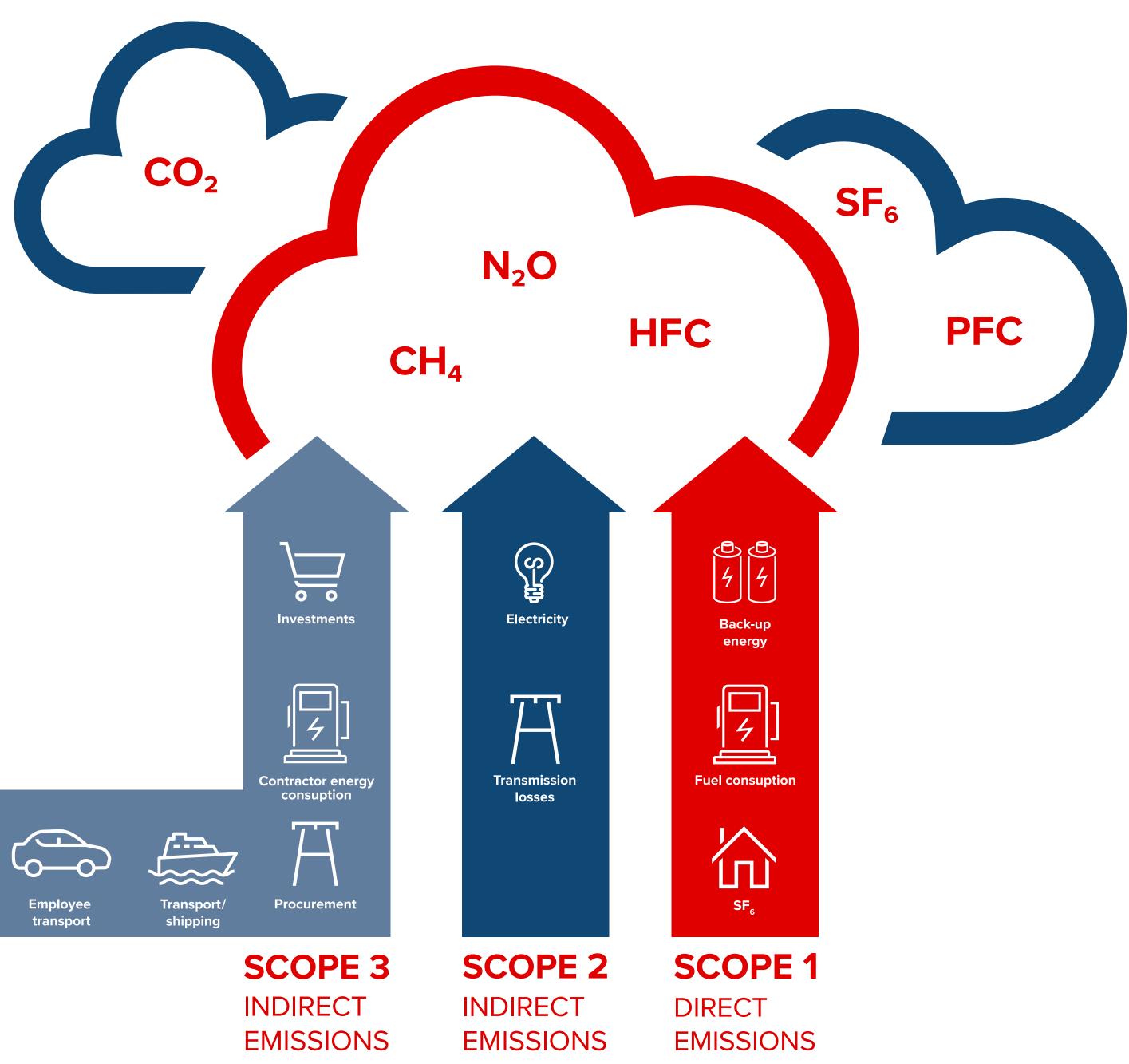
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The GHG Protocol methodology is used to calculate emissions accounts. Emissions due to transmission losses are calculated using a local-based approach to energy production emissions; the Icelandic energy basket was estimated to be 10.3 g CO2-eq/kWh in 2022. Market-based estimates of emissions from energy in 2022, assuming the sale of guarantees of origin, are 164,000 tonnes CO2-eq/kWh. The emission factor based on this electricity trading system is 427 tonnes CO2-eq/kWh.

# **Carbon neutral**

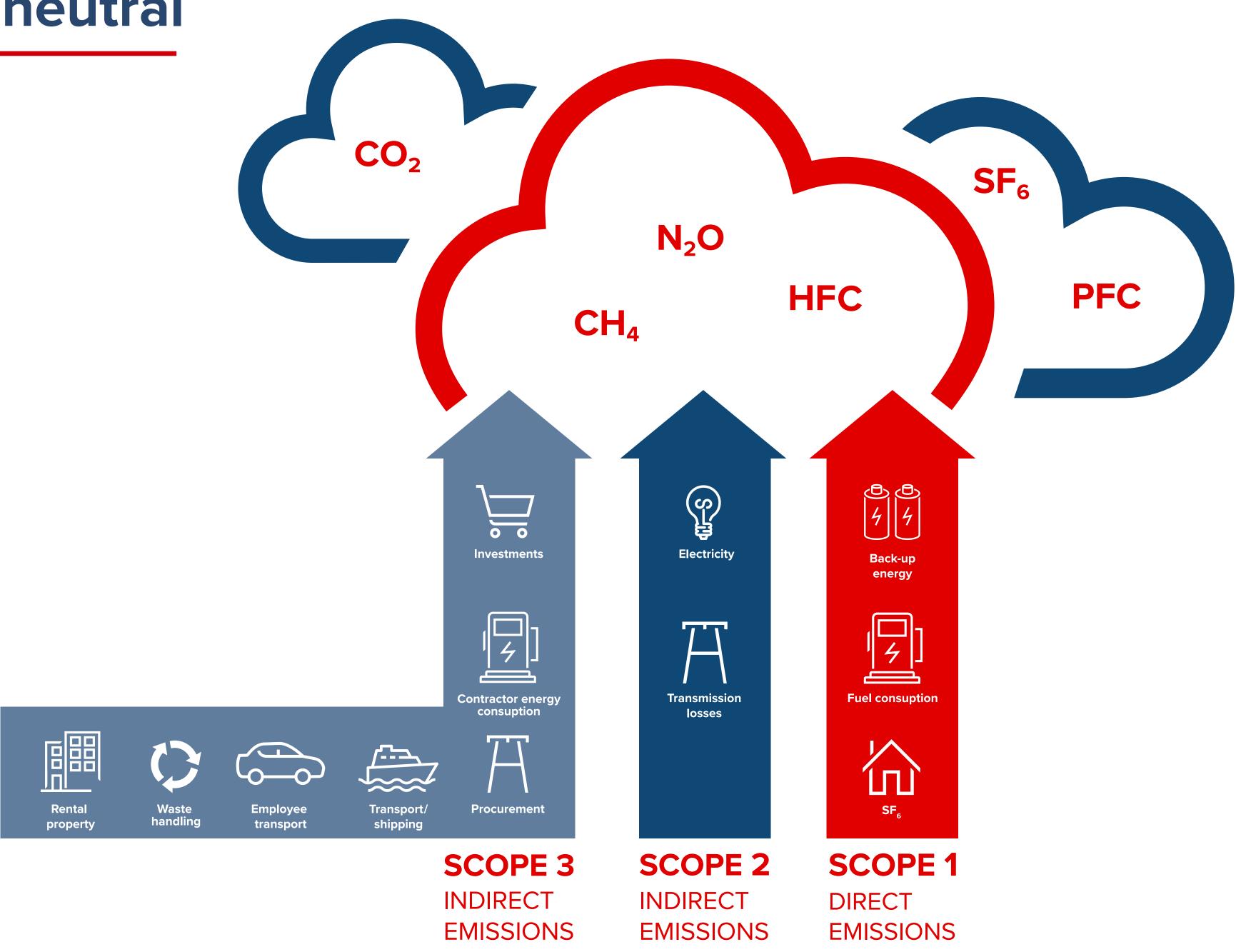


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# Security of supply

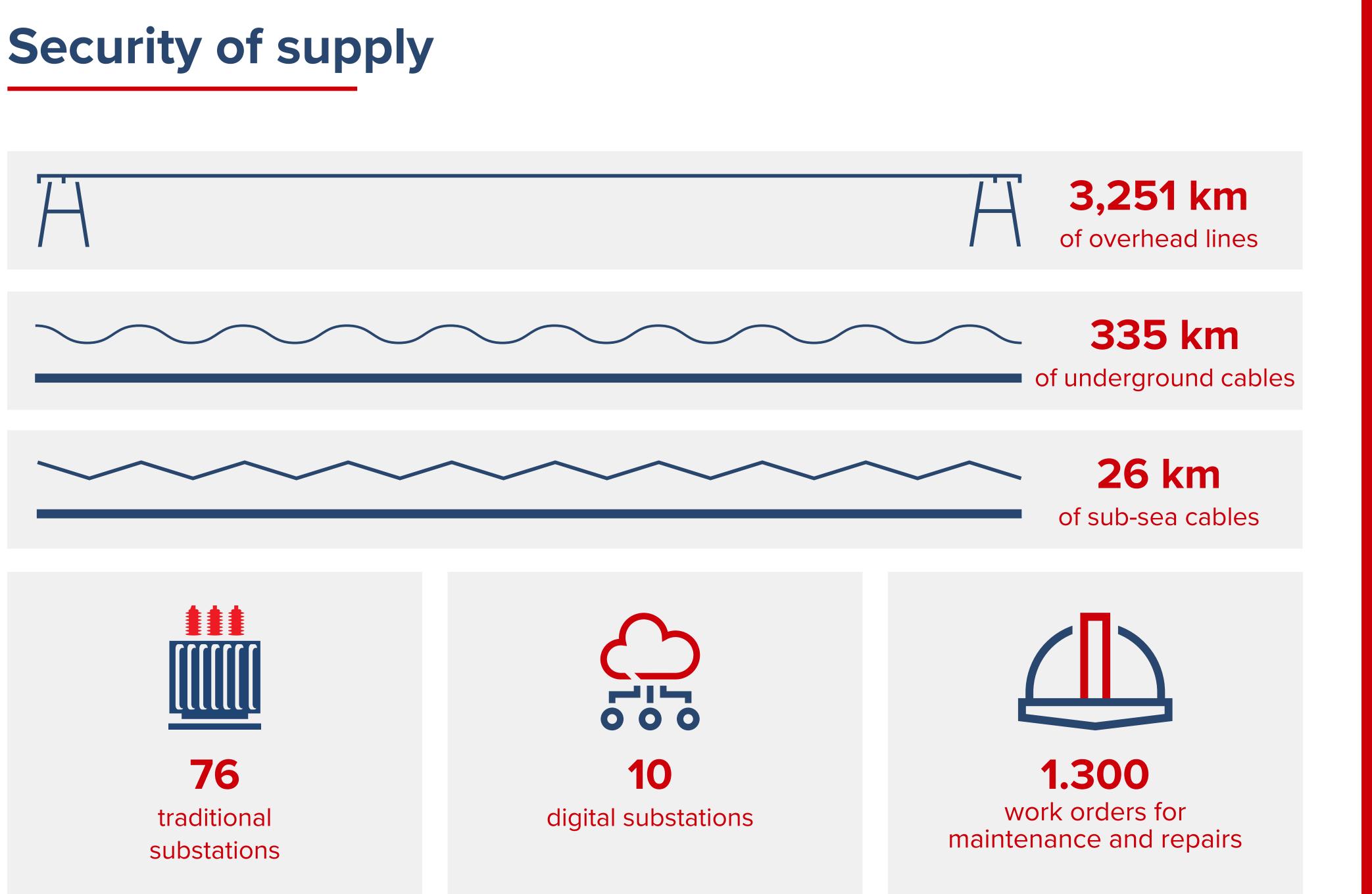
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In our view, electricity is a climate issue, and we play a critical role in the energy transition. Our team is well-prepared for the challenges that lie ahead.



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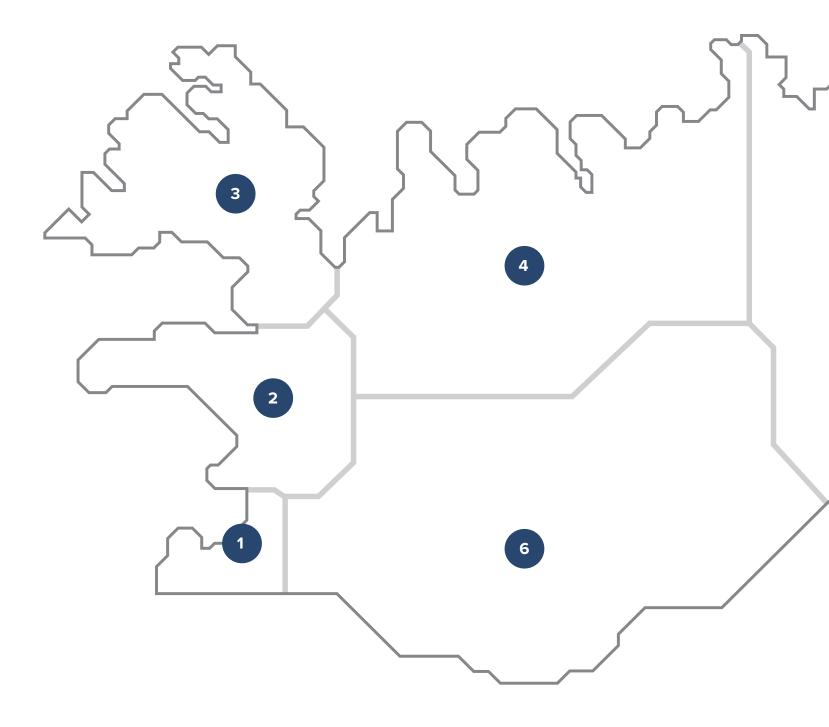




# **Construction projects**

The operation of the transmission network, whether it's ensuring the security of supply, protecting the environment, or maximising efficiency, is a tremendous responsibility. Our electricity lines play a critical role in the energy transition.

Our maintenance team for network services kept busy this year. They handled over 1300 work orders for maintenance and repairs.



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5



1

Suðurnesjaline 2 Hamranesline 1&2 – underground cable Ísallines 3&4

#### **CONSTRUCTION PROJECTS**

Substation Njarðvíkurheiði Kolviðarhóll – Geitháls **Substation Fitjar Reykjanesline 1** Suðurnesjaline 1 Substation Korpa

#### **FINISHED PROJECTS**

Hnoðraholtsline (AD7) Substation Reykjanes (REY) Nesjavallaline 1 – transfer

**PREPARATION PROJECTS** 2 Substation Klafastaðir Hvalfjörður – Holtavörðuheiði **CONSTRUCTION PROJECTS** Substation Vegamót **PREPARATION PROJECTS** 3 Strengthening the transmission system in the South Westfjords Ísafjarðardjúp – a new delivery point **CONSTRUCTION PROJECTS Substation Breiðadal PREPARATION PROJECTS** Blanda – Akureyri Holtavörðuheiði – Blanda Substation Varmahlíð **CONSTRUCTION PROJECTS Substation Hrútatanga** Akureyri – Dalvík **Substation Þeistareykir** Þeistareykir – Kópasker - strengthening the transmission system Rangárvellir – expansion **FINISHED PROJECTS** Akureyri – Hólasandur **PREPARATION PROJECTS Substation Sigalda** CONSTRUCTION PROJECTS Hella – Rimakot

**FINISHED PROJECTS** Substation Lækjartún Lækjartúnsline



# Supply chain

Global transport chain issues created problems in our supply chain, but our experience from the previous year helped us develop solutions.

- 50 tenders
- Contract numbers ranged from a few million to a billion
- 20–30 price inquiries

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# How did we do?

Among the most critical infrastructures in the country is the electricity transmission system. Power outages can be widespread and significantly affect homes, businesses, and critical infrastructure such as telecommunications.



# How did we do?

SEE PERFOR-MANCE REPORT 2022

### 19,228 GWh

Transmission system total feed-in

### 2,425 MW

Highest power of feed-in (average hour value)

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### 41

Number of grid disturbances leading to primary curtailments

### 18,844 GWh

Transmission system total supplied energy

### 384 GWh

Total transmission losses

### 2,374 MW

Highest power of load (average hour value)

### 83 disturbances/ 104 faults

Number of grid disturbances/ faults

### 1,391 MWh

Total energy not supplied. Primary load users 725 MWh

Total energy not supplied. Curtailable transmission



## Society

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### LANDSNET



The transmission system must be understood as one of the fundamental pillars of society, and there must be consensus about our role and priorities. We constantly strive to create harmony in our roles and activities. We aim to establish a continuous dialogue with stakeholders characterised by openness, responsibility, respect, and cooperation.

# Collaboration and conversation

Number of meetings by project	Staker Counc 2021		Project Counci 2021		Landov 2021	wners 2022	Local Goverr 2021	nments 2022	Field 1 2021	Trips 2022	Open Meetings 2021 2		Other Comm 2021	unicati 2022
Stakeholder Council	4	4											10	10
Network Development Plan	2	2											10	10
Holtavörðuheiðarline 1			3	2	4	2	4	4		12			10	10
Holtavörðuheiðarline 3							3						10	10
Hólasandsline 3			2	1					1	1			10	10
Blönduline 3			2	1			6	5				2	10	10
Lyklafellsline 1			2	2			1						10	10
Suðurnesjaline 2								1			1		10	10

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# **Research and collaboration Data storage**

We posted about **45** Friday educational pieces related to our activities throughout the year. We actively participated in **2** international research projects and **5** national ones. We also submitted **5** reports.

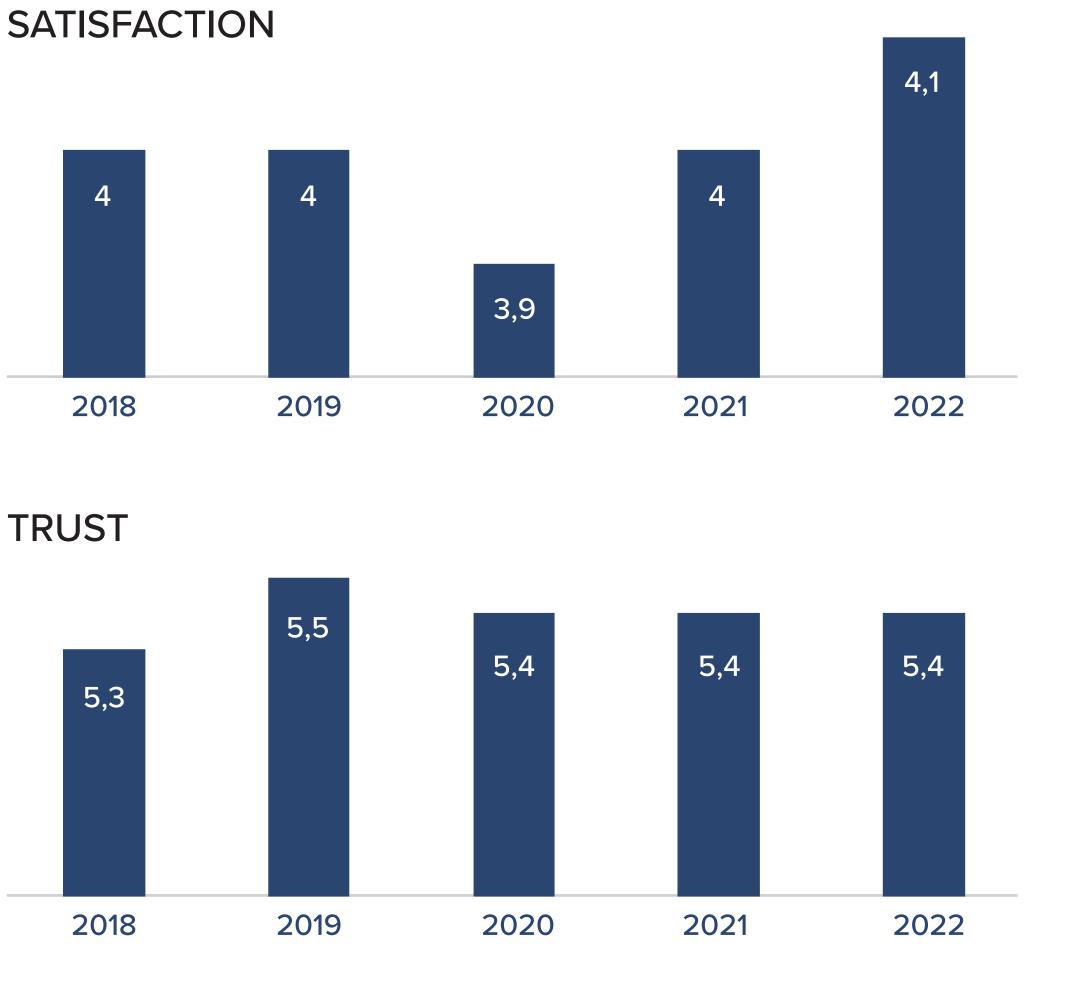
# In 2022, **1,124** projects were created

In 2022, **1,124** projects were created, and **18,240** project documents were saved.



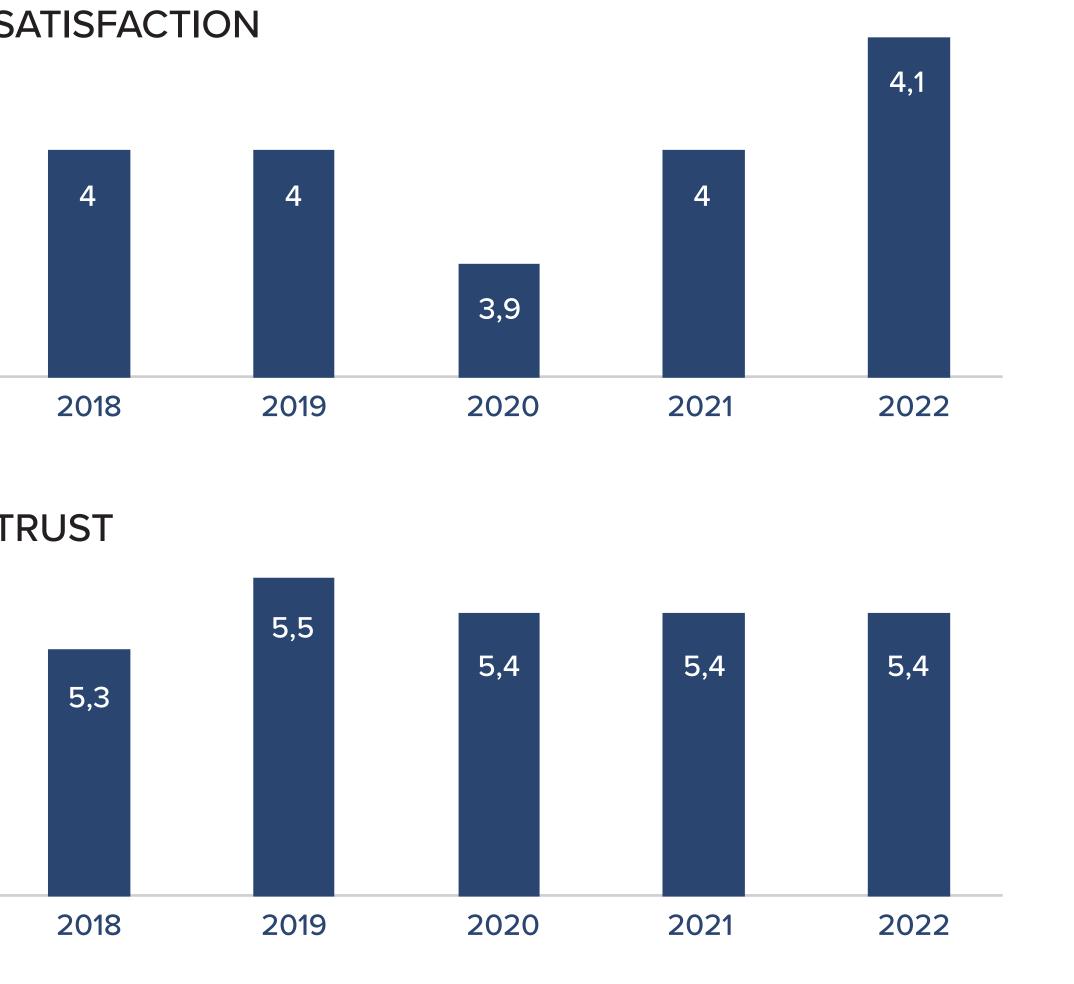
# **Customer satisfaction**

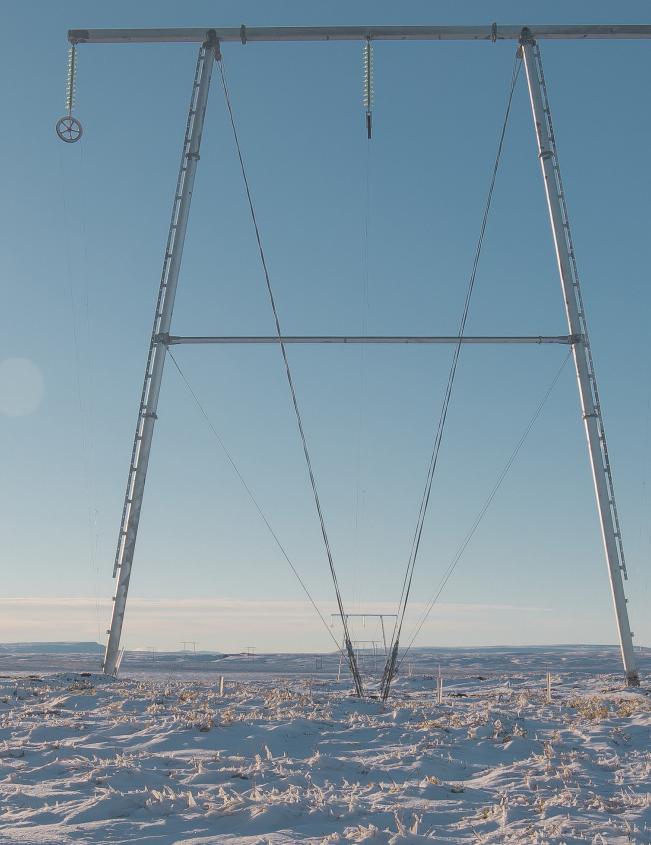
We are committed to providing excellent service to our current and future customers. The quality of our service is one of our cornerstones. Our annual satisfaction rate has been increasing year after year.



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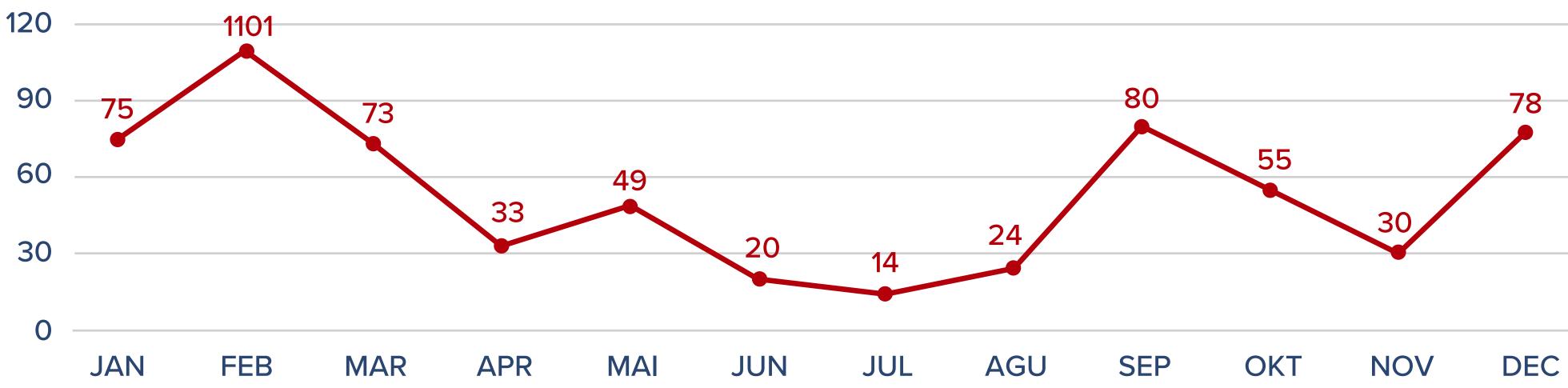
# The Year in the News

We were frequently in the news in 2022, and positive news has increased significantly between the years.

Social media continued to play a prominent role, and we reinforced communication even further by increasing our number of followers.

Our podcast's success continued with eight episodes aired, all of which were very well received.

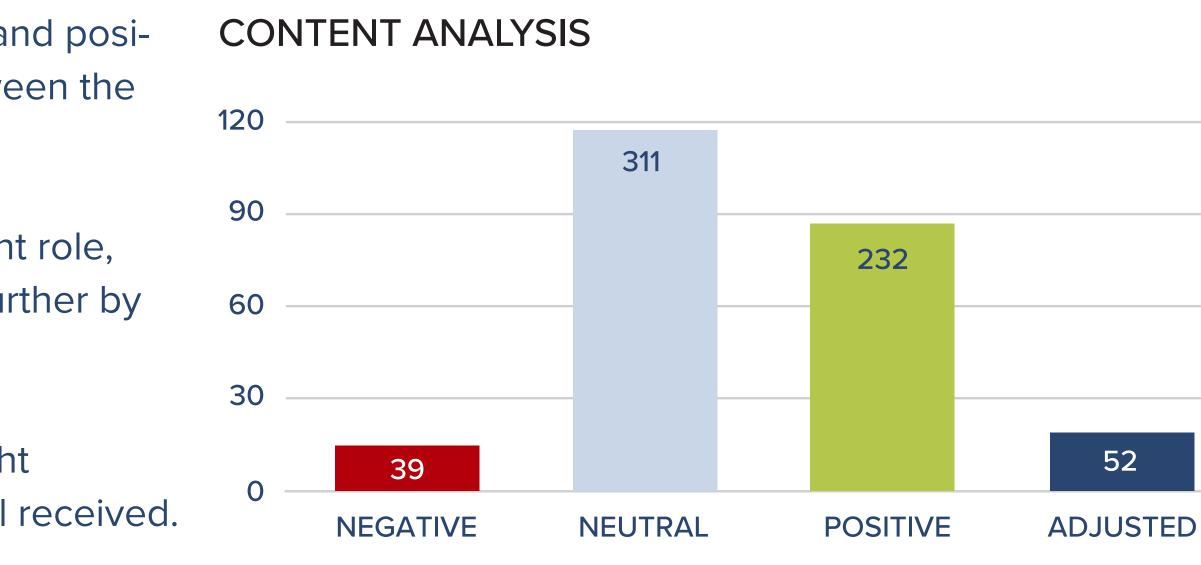
### FREQUENCY OF COVERAGE



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# The future was yesterday - the time for action is now

We held our spring meeting in Harpa, which focused on the importance of the transmission system in the energy transition. The main points of discussion were the consequences of a weak transmission system and the benefits of strengthening it. What challenges do we face, and how do we deal with them? The meeting was well attended and live-streamed.

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# Three exciting parts of the country

In early September, we celebrated *Electrifying East Iceland* in Eskifjörður as numerous exciting projects reached their final stages in East Iceland, developed to reinforce the region's transmission system significantly.

We celebrated *Electrifying South Iceland* in September, with a new substation in Lækjartún.

We also celebrated the 50th anniversary of the Icelandic regional line and the final stages of the Krafla Line 3 and Hólasandslína Line 3 projects.



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# Premier of Rafhringur Íslands

The documentary *Rafhringur Íslands* (*The Icelandic electric circle*) premiered this year as a story of ambitious construction projects with a social, economic, but primarily human focus. Previously unpublished interviews with individuals dedicated to the regional line adventure and personal video footage from this time brought this fantastic story to life.

## **Electricity market**/ ELMA

A subsidiary company of Elma was established this year to establish and operate a wholesale electricity market in Iceland.



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