Governance ↓

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Disclosure based on TCFD Recommendations

Metrics and Targets ↓

In August 2020, we announced our support for the recommendations of the Task Force on Climate-related Financial Disclosures (TCFD) and promoted an analysis of the risks, opportunities, and financial impacts of

Risk management ↓

TASK FORCE ON CLIMATE-RELATED FINANCIAL DISCLOSURES climate change on our business. We are pleased to disclose some of the results of this study based on the TCFD recommendations.

initiatives for climate change is one of the most important issues. The contents of the studies conducted by the Environmental Committee and the Information Disclosure Committee, which are

Governance

supervision, are scrutinized by the Sustainability Management Committee, which is chaired by the officer in charge. The Sustainability Management Committee notifies Board of directors of the key issues. The PDCA cycle has implemented to ensure matters pointed out by Board of directors throughout the company. <Detailed Information> Basic policy of sustainability: https://www.hamamatsu.com/jp/ja/our-company/sustainability-and-csr/hamamatsu-photonics-sustainability.html > Fundamental environmental policy:

Based on our basic policy of sustainability and fundamental environmental policy, we recognize that

chaired by executive officers, as well as by its subcommittees and working groups under their

Sustainability Management Committee uman Rights and Ethics Committee Information Disclosure Committee Environmental Committee Health and Safety Committee

04/Define Measures

Measures

Portfolio

transformation

Capacity and

technology investment

Supply chain committee

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Board of Directors

https://www.hamamatsu.com/jp/ja/our-company/sustainability-and-csr/environment/environmental-management.html >

conducted a scenario analysis at 1.5/2°C and 4°C for our entire business in the following steps.

02/Define Scenarios

transition and

physical risks

associated with the

organization

Strategy

01/Identify Key Risks and Opportunities

Market

Governmental

policies

and laws

Mild

Low

Physical

risks

01 Identification of key risks and opportunities

changes and Define multiple Reputation Business model technological scenarios that Input costs Business costs transformation changes encompass the

We recognize that various changes due to climate change will affect our business. In order to identify the most important risks and opportunities, we

03/Assess Impact on Business

Profit

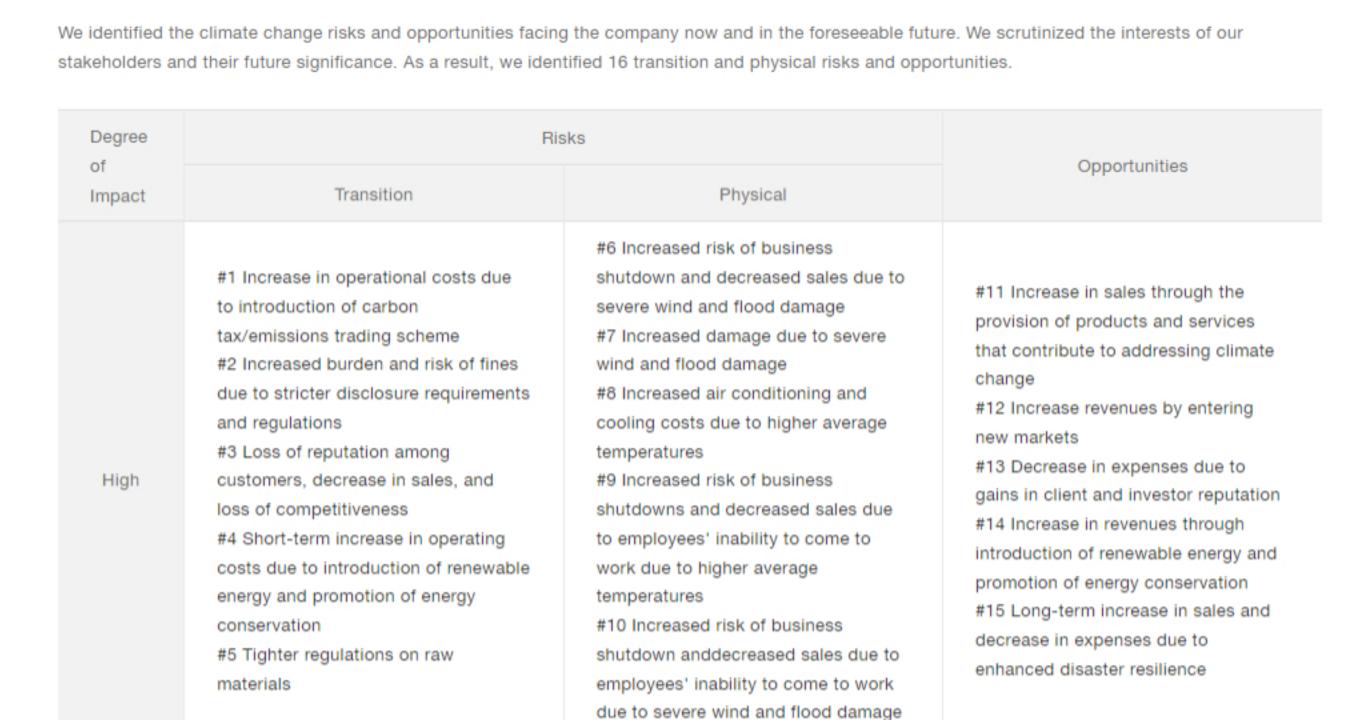
Suspension of

business

Impact on business

Supply chain

Timing



Decrease in sales resulting from

lower production due to lower rainfall

at the water sources from which the

Medical

Measure

ment

Industry

Transport

Medical

Measure

ment

Analysis

Industry

Transport

Examples of changes in

Increased risk of

infectious diseases due to

climate change and the need to strengthen

countermeasures

Increased demand for

at a CAGR of

approximately 6% after 2021

2% of global workforce

lost due to rising

temperatures and heat

waves

Examples of changes in

Increased risk of

infectious diseases due to

climate change and the

need to strengthen

countermeasures

Increased demand for

methane and hydrogen

measurements in the

energy sector

Air quality monitoring

market size will expand at

a CAGR of approximately

6% after 2021

2% of global workforce

lost due to rising

temperatures and heat

waves

Transformation of the

automotive market to an

electrification-centered

market will be limited, and

the market will continue to

focus on ICEVs

customer's business

customer's business

Impact on our business

Increased demand for

photomultiplier tubes, opto-

semiconductor devices and

related products for

medical equipment

Increased demand for

semiconductor devices

for atmospheric analysis

equipment

Increased demand for FA

photodiodes, image

sensors, etc. in

manufacturing processes

for labor saving

Impact on our business

Increased demand for

photomultiplier tubes, opto-

semiconductor devices and

related products for

medical equipment

Increased demand for

related products for

measuring instruments

Increased demand for

light sources and opto-

semiconductor devices

for atmospheric analysis

equipment

Increased demand for FA

photodiodes, image sensors,

etc. in manufacturing

processes for labor saving

Increased demand for

automotive battery quality

inspection products for

EVs

Impact

1.5/2°C

High

Mild

Mild

Mild

Mild

Mild

4℃

High

High

Mild

Mild

water is withdrawn

We set 1.5/2°C and 4°C scenarios for 2030 and considered changes in the external environment and stakeholders with regard to adaptation to climate

change and the transition to a low-carbon society. We also projected changes in our customer sectors that may occur as a result of these changes, and

Adaptation environment Temperature rise Technological

02 Definition of scenario groups

examined the degree of impact on our business.

Case of 1.5/2°C in 2030

reaches 1.5°C

Declining trend in

the long term

Accelerate ESG

investments and loans

Promote portfolio

decarbonization

Strengthening

regulations on climate

2

#16 Loss of reputation and

competitiveness among investors

Changes in external environment/stakeholders

Technology

innovations for

climate change

making renewable

energy the main

source of power

Promote research and

Changes in external environment/stakeholders

Technological

innovations for

climate change

adaptation are

progressing

Limited use of

renewable energy

as a main source

of power

Promote research and

development of climate

adaptation

technologies

evaluations

systems

promotion of energy conservation

specimen testing equipment

decline due to severe wind and flood damage

Technology

to climate change methane and hydrogen adaptation are disaster risk for related products for measurements in various progressing consumers measuring instruments industries Practice Investors and Increased demand for Air quality monitoring Analysis financial institutions market size will expand light sources and opto-32% progress in environmentally Transition to

Consumer

Increased risk of

health

deterioration and

conscious

consumption and

purchasing

behavior

Promoting

Consumer

Increased risk of

health

deterioration and

disaster risk for

consumers

Limited practice of environmentally

conscious

consumption and

purchasing

behavior

Regime change and

public movements stall

climate change policy

low-carbon society development of energy-Transition to a focus on Increased demand for decarbonization electrification is in full swing, change disclosure saving and automotive battery policies to achieve with BEVs, PHEVs, and decarbonization quality inspection FCVs accounting for 64% of passenger car sales by 2030 carbon neutrality technologies Government products for EVs Impact on the Company as a whole Growing demand for environmental measurement and analysis and renewable energy-related products, but also for decarbonization efforts in product manufacturing processes Case of 4°C in 2030

disclosure remains status quo or stagnates Government

Types

Risks

Climate change

environment

Adaptation to climate change

Temperature rise

reaches 1.6°C

Over 4°C in the long

term

Investors and

financial institutions

ESG investment

stagnates

Impact on the Company as a whole While the risk of shutdowns in our company and supply chain will increase, we will be able to expand new business opportunities by responding to market demand for climate adaptation. 03 Business Impact Assessment A sensitivity analysis was performed to assess the potential impact of each scenario on our strategic and financial position. For each of the climate change risks and opportunities with a high degree of importance, we examined the business impact calculation methods and calculated and examined them from available internal and external parameters. Examples are as follows; Potential Financial

Impact on Business in 2030

Decrease in sales due to lower product competitiveness and sluggish customer

Short-term increase in operating costs due to introduction of renewable energy and

Business shutdowns (production sites, logistics, inventory, supply chain) and sales

Damage to manufacturing sites due to severe wind and flood damage and

increased restoration costs Medical and biotechnology equipment: Increased sales of related products for

04 Consideration of countermeasures

Opportunities

Risk management

Physical

Transitional

Analytical instruments: Increased sales of related products for environmental Mild Low analysis

Based on the results of the project impact assessment, we will consider countermeasures for those items that have a large impact.

performance and challenges, and we strive to improve our environmental performance through continuous improvement.

Environment: https://www.hamamatsu.com/jp/jen/our-company/sustainability-and-csr/environment.html >

ESG Data: https://www.hamamatsu.com/jp/en/our-company/sustainability-and-csr/esgdata.html >

32.5%

decrease

We have established environmental management rules and operate a company-wide environmental management system. We evaluate risks and

opportunities for the environment, including climate change, and set environmental objectives and targets for each fiscal year. Management reviews our

Based on multiple climate-related scenarios, we have quantitatively evaluated risks and opportunities for financial impact, which will be used for risk

Industrial Equipment: Increased sales of related products for EV battery inspection

Metrics and Targets

management throughout the group in the future.

the SBT Initiative, an international environmental organization, in October 2021 as scientifically based and in line with the Paris Agreement. Meanwhile, as key metrics in our mid- to long-term environmental strategy, we have established, evaluated, and managed GHG emissions, water usage, renewable energy usage, etc. GHG emissions are calculated for Scope 1, 2, and 3* in accordance with the GHG Protocol, and third-party verification is conducted. 74th fiscal year (ending September 30, 2021) GHG emissions (Scope 1 and 2) were 59,386 t-CO2 in the 74th fiscal year (ended September 30, 2021), a reduction of approximately 13 % (target 7.5 %) from the 71st fiscal year (ended September 30, 2018). <Detailed Information>

▼ Scope 3

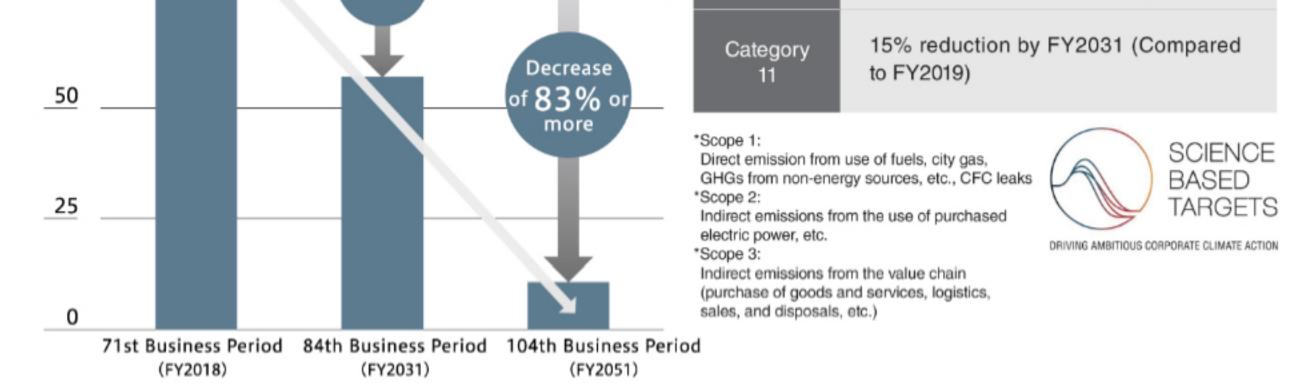
Category

Under the Group's long-term vision for global warming countermeasures, our greenhouse gas reduction targets (GHG reduction targets) were certified by

75

▼Scope 1 and 2

100



Reducing carbon emissions and climate change >

• Our GHG emissions (Scope 1 and 2) for FY2021 was 59,386 t-CO₂. We reduced it by 13 %(the target 7.5 %) compared with FY2018.

Our SBT certified target (Scope 1 and 2) aims to reduce GHG emissions in FY2031 by 30 % compared with FY2019.

Management of pollution including waste >

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Environmentally Friendly and Contributing

Management of chemicals in products > Inquiries concerning Environmental Initiatives >

Disclosure based on TCFD Recommendations

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76% of suppliers by spend covering

purchased products and service will

have science-based targets by FY2026

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