CLIMATE RISK AND RESILIENCE

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The Bank will perform an analysis of climate change risks and their impact upon the Bank's portfolio by integrating climate risk issues as part of its risk management system. Aligned with the recommendations from the Taskforce on Climate-Related Financial

Commitment

Aligned with the recommendations from the Taskforce on Climate-Related Financial Disclosures (TCFD), climate change risk scenario analysis will be conducted in order to provide inputs for stress testing, inform industry limits, and adjust the Bank's business plan accordingly. In addition, the Bank will develop products and services that incentivize adaption to climate change in order to create balance between risk management and business opportunities, while at the same time supporting the transition to becoming a low-carbon society.

Challenge

The National Aeronautics and Space Administration (NASA) reported that global temperature in 2020 tied for the warmest year on the record in the 140 years since the first statistical data was collected. In Thailand, the Environmental Research Institute of Chulalongkorn University has stated that 23% of the land in Thailand is affected by climate change, from phenomena such as flash floods from heavier rainfalls, droughts, and rising sea levels. These natural phenomena all impact company operations. If the company neglects the importance of identifying appropriate and immediate measures or approaches for addressing climate change risks, impacts from climate change will inevitably take their toll on the financial sector and banks in its role as a capital provider.

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Climate Risk and Resilience



Environmental Footprint Reduction

Management Approach

The Bank places great importance on managing risks and opportunities associated with climate change by setting commitment and management approaches through the SCB and SCB Subsidiary Sustainability Policy, overseen by the Sustainability Steering Committee chaired by the President. The committee consists of senior executives from relevant business units responsible for steering sustainability performance toward the set targets and plans. This governance structure is also deployed to manage other material sustainability issues. At the same time, the Bank has set up a Climate Risk Assessment Taskforce with responsibility for studying and assessing climate change risks to the Bank's portfolio and systematically integrating the risks as part of bank-wide risk management system.

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Board of Directors

Responsible for the overall direction toward sustainability, with the role and responsibility of approving the Bank's sustainability policy and strategic direction

Sustainability Steering Committee

Supports policy implementation and provides guidance for continuous improvement while monitoring and assessing performance against targets

Banks play a crucial role in stimulating economic development by allocating necessary capital to generate economic activities. Recognizant of the importance of taking part in mitigating impacts resulting from climate change, which is a global issue, SCB provides various financial instruments to businesses and activities in order to help mitigate or contribute to climate change risk adaptation.

To systematically drive bank-wide performance, SCB embeds sustainability thinking and practices, including climate change risk management into corporate strategy through the deployment of a Balanced Scorecard.

Each business unit is required to set targets and indicators supporting the development of products and services that help mitigate impacts from climate change risks. Detailed approaches and performance are reported in the Sustainable Finance Chapter, Sustainable Financial Solutions, Responsible Lending, and Investment topic.

In terms of climate change risk management, the Bank seeks to understand and manage two main types of climate change risks: Transition Risk and Physical Risk.



Climate Risk and Resilience



Environmental Footprint Reduction



Climate Risk Assessment Taskforce

Study and assess climate change risks to the Bank's portfolio and systematically integrating the risks as part of bank-wide risk management system

Transition Risk

A transition towards a low-carbon economy may bring about policy or regulatory change, new rules and regulations, new technologies, and new market initiatives. These factors all contribute to both positive and negative impacts upon business in terms of business models, management approaches, reputation, and financial returns. The degree of severity and speed of impacts depends on different factors, such as a company's industry type, geographical location, or the volume of emitted greenhouse gases.

Physical Risk

Physical risks refer to the consequences of acute or chronic climate change which results in natural phenomena such as the increased severity of floods and prolonged droughts. These physical risks affect operations of the Bank and its value chain, which can significantly impact overall operations and financial returns.

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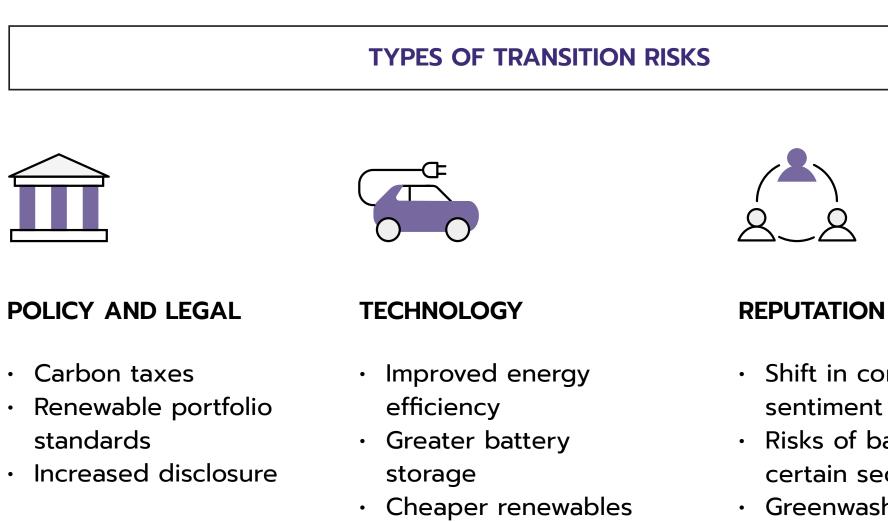
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Types of Climate Change Risk

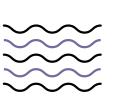


TYPES OF PHYSICAL RISKS





- Windstorms
- Wildfires
- River flooding



CHRONIC



Climate Risk and Resilience



Environmental Footprint Reduction

Nevertheless, these two types of risks are correlated, that is, the collective effort to transit to a low-carbon economy will lead to a shift in business due to the adoption of new laws and regulations. However, physical risks such as extreme floods or droughts will be mitigated. On the other hand, without these efforts toward a low-carbon economy, physical risks will escalate as global temperatures continue to increase beyond 1.5 Celsius, causing severe natural disasters. Meanwhile, business risks resulting from changes in rules and regulations aimed at a low-carbon economy will decrease.

Nonetheless, efforts to mitigate climate change risks will also mitigate physical risks as governmental entities will enact relevant rules and regulations. This will directly impact corporate policy on climate risks as well as market demand for limiting greenhouse gas emissions, such as the implementation of a carbon tax or considering doing business with green companies. These changes will directly impact carbon-intensive businesses and those that produce significant greenhouse gas emissions, but nevertheless help reduce physical risks, contributing to a better environment.

 Shift in consumer Risks of banking certain sectors Greenwashing concerns

• Drought • Sea-level rise • Extreme heat

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To effectively integrate climate change risk as part of the bank-wide risk management system, in 2020 the Bank set up a Climate Change Risk Taskforce, chaired by the Chief Risk Officer, with representatives from risk management, corporate sustainability, and the Economic Intelligence Center (EIC) as committee members. This Taskforce seeks to study and assess climate change risks to the Bank's portfolio and incorporate climate change risk management and measures into the Bank's stress testing. This approach follows and aligns with the recommendations from the Taskforce on Climate-Related Financial Disclosures (TCFD).

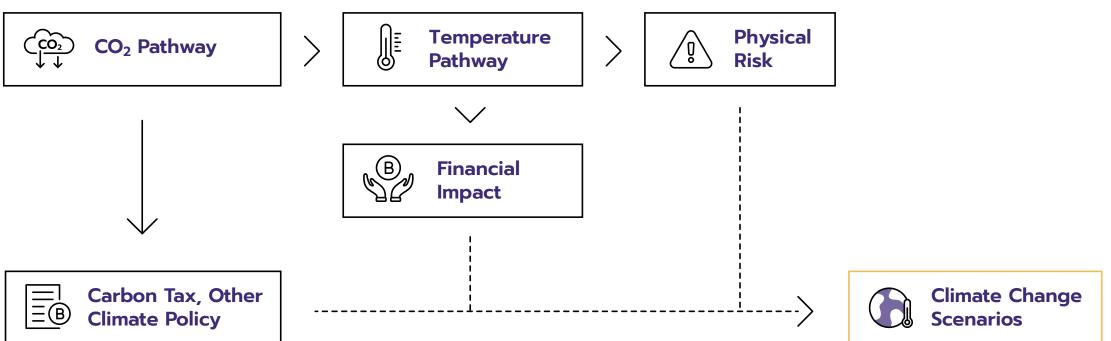
Performance Highlights

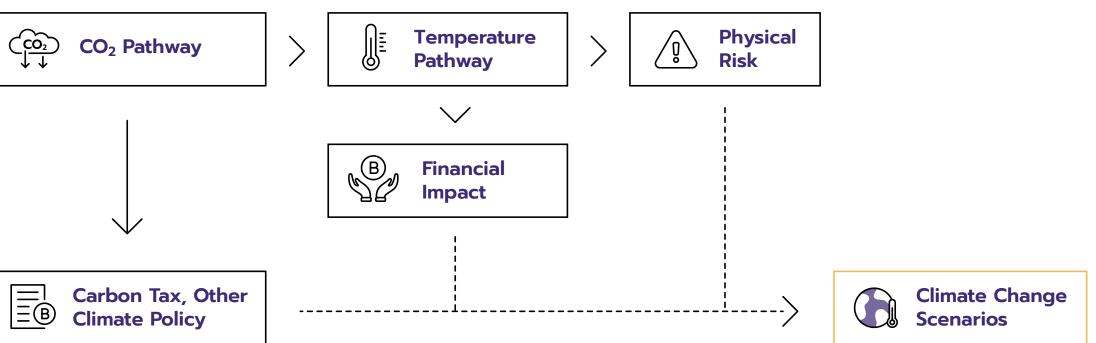


Climate Change Risks Assessment and Scenario Analysis

The Task Force on Climate-related Financial Disclosures (TCFD) has devised an approach and tools for financial institutes to use in assessing climate change impacts by applying scenario analysis. This enables banks to better understand associated risk levels and the severity of climate change upon their corporate portfolios, existing business approaches, and potential opportunities.

In 2020 the Bank worked with external consultant in studying and assessing risks associated with climate change, both in terms of physical risk and transition risk. The adopted methodology relies on frameworks and tools for identifying assumptions and scenarios associated with climate change. Along with an increase in global temperatures entailing physical risks from climate change, assumptions of estimated greenhouse gas emissions emitted by each industry are made in order to assess potential changes relating to rules and regulations as well as policies aimed as preventive measures. This holistic approach brings about valid assumptions which will be used to inform qualitative models for assessing impacts upon corporate portfolios as well as impacts upon the Bank due to potential default payments from







Environmental Footprint Reduction

corporate customers operating in industries exposed to climate change risks and impacts.

The adopted scenario was developed by the Network for Greening the Financial System (NGFS), a voluntary collaboration of central banks from each participating country, seeking to devise management approaches toward climate change risks specifically geared to the financial industry. The network also encourages the financial sector to take part in helping drive the transition to a lowcarbon economy.

At the end of 2020, the Bank is in the process of assessing impacts due to climate change. The assessment results will be embedded into the Bank's risk management system and inform the Bank's future corporate strategy and business plan.



ENVIRONMENTAL FOOTPRINT REDUCTION

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SUSTAINABILITY REPORT 2020 Challenge

Rapid economic and social development has led to environmental resource degradation and depletion, causing increasingly severe environmental problems. Thailand today faces prolonged drought, more frequent flooding, and other natural disasters associated with climate change. Thailand is also ranked among the top ten countries in the world with the most marine litter. Meanwhile air pollution, specifically, PM 2.5, from vehicle combustion, industry, and the burning of crops by the agricultural sector, continues to spread across the region during winter.

Commitment

The Bank seeks to improve environmental quality and conserve ecosystem balance by focusing its efforts on increasing energy efficiency, reducing resource consumption, and dealing with waste management in alignment with the 3R principles: Reduce, Reuse, and Recycle. At the same time, the Bank has identified an approach to reduce pollution resulting from logistics and commuting while collaborating with suppliers to improve their environmental performance through green procurement practices.

Recognizant of its role as a financial institute in mitigating the mentioned environmental problems which consequentially impact the country's economy and the people's quality of life, SCB has accordingly adopted environmental policies, set targets, and initiated programs aimed at promoting environmental conservation and protection throughout the Bank's value chain.



Climate Risk and Resilience



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Management Approach

To ensure that the Bank's processes help mitigate environmental impacts while SCB employees efficiently utilize resources, SCB not only strictly complies with relevant environmental laws and regulations but also promotes adherence to its Environmental Management Policy, covering bank-wide operations as well as practices with customers and suppliers. Environmental performance is overseen by the Environment Committee, chaired by senior executive. The committee is also responsible for setting strategy and monitoring performance to ensure that it is in line with the policy framework and targets.

While continuing to uplift its environmental management and operations in 2020, the Bank underwent preparatory steps in adopting and certifying ISO 14001:2015 standards while integrating environmental considerations as part of Risk and Control Self-Assessment Procedures (RCSA) and Key Risk Indicators (KRI). Accordingly, units assessed and identified as contributing to a significant environmental impact are required to identify appropriate mitigation measures. In addition, the Bank has provided environmental management training, built engagement with employees and suppliers by promoting compliance with policy, organized environmental campaigns, and maintained continuous communications.

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Compliance with environmental management policy and relevant standards



The Bank set environmental targets: Reductions in energy consumption, greenhouse gas emissions, waste disposal, water consumption, waste, and domestic travel by 10% by 2023

Against 2016 benchmark

Remark: The adoption of a Work from Anywhere (WFA) policy due to the COVID-19 pandemic caused a significant decrease in energy and resource consumption. The Bank is reviewing its long-term environmental targets to reflect this new way of work.



Climate Risk and Resilience





Target and Performance

- SCB reduced energy consumption by 35%
- Reduced indirect greenhouse gas emissions by 41%
- Reduced waste disposal by 59%

2020 Performance

- Reduced water withdrawal by 38%
- Reduced gas emissions from business travel by 80% Against 2016 benchmark

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Performance Highlights

Throughout 2020, the Bank has reviewed policies and processes and initiated various programs to encourage and engage employees in taking part in environmental impact mitigation efforts.



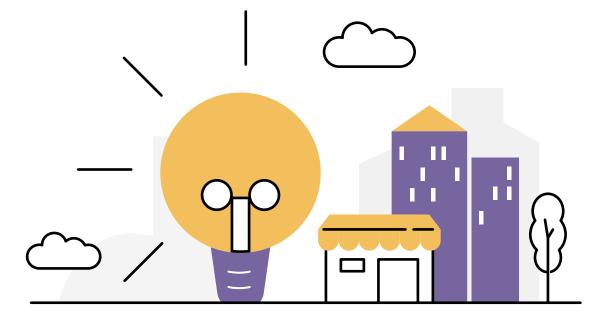
Resource Consumption and Eco-efficiency



Energy

Total energy consumption 34,358 (megawatt-hours)

against 2020 target of 40,967 (megawatt-hours)



Reduced 24% from 2019

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Climate Risk and Resilience



Environmental **Footprint Reduction**



Collective Effort on Energy Efficiency: Turn off, Adjust, Unplug, Switch

The Bank continued to promote employee engagement in 2020 by helping reduce energy consumption through an "SCB Collective Effort to Conserve Energy: Turn off, Adjust, Unplug, Switch" initiative. The effort has been communicated, prompting engagement, performance monitoring, and reporting to the Environment Committee on a regular basis.

- Adjust AC turn-on and turn-off times at every location
- Turns off lights in buildings and parking lots at specified times, and only utilize as necessary
- Turn off office lights in meeting rooms and unplug unused devices

This initiative will help the Bank save over 18 million baht annually in operating costs.

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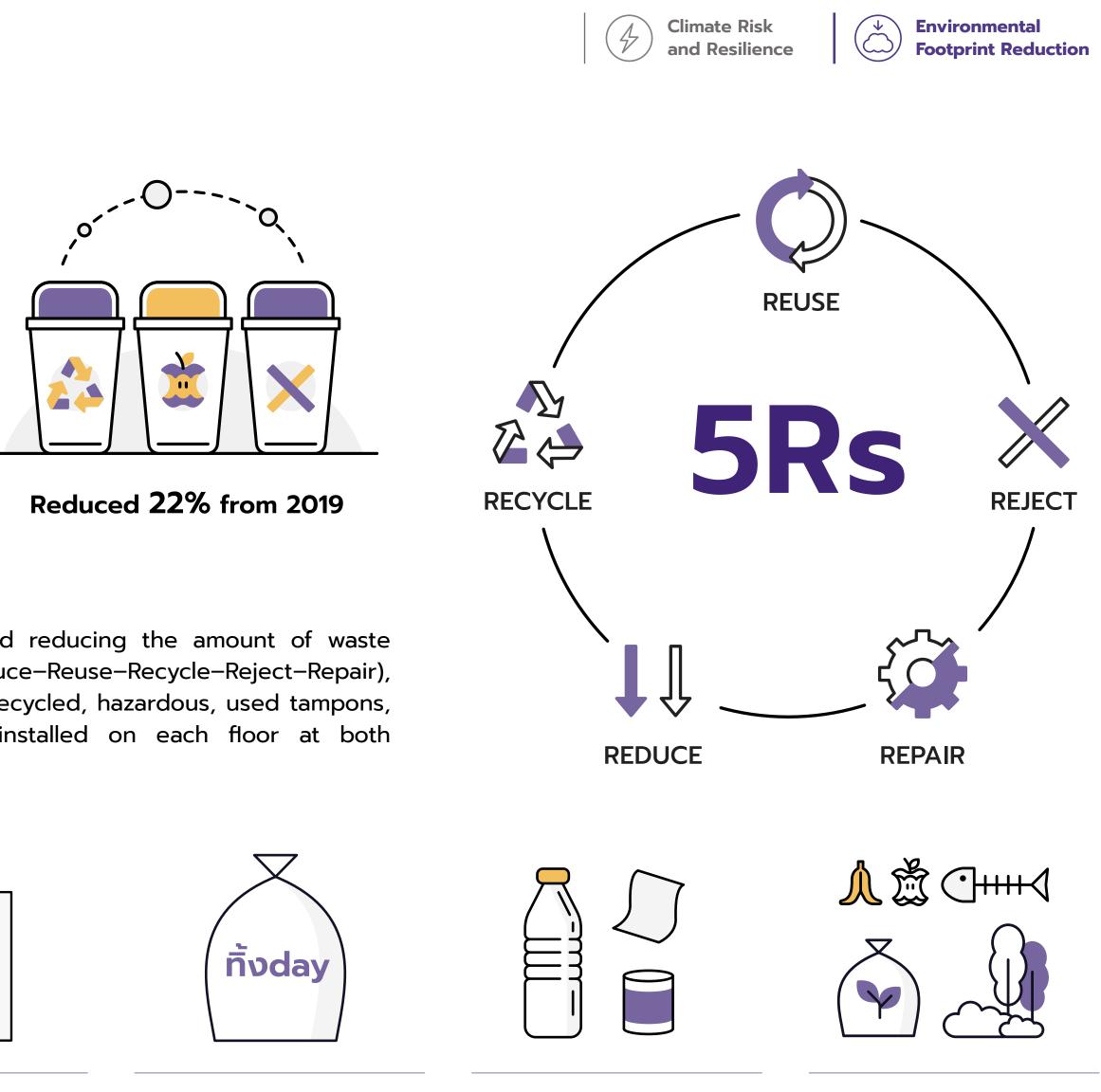
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Waste

Total non-hazardous waste to landfills 2,686 (tonnes)

against 2020 target at 3,367 (tonnes)



From 5Rs to Waste Sorting

In 2020 the Bank continued its efforts toward reducing the amount of waste disposed of by adopting the 5Rs principle (Reduce-Reuse-Recycle-Reject-Repair), which is applied to 5 types of waste: general, recycled, hazardous, used tampons, and masks. Waste sorting bins were also installed on each floor at both headquarters and main buildings.

plastic



86 waste sorting bins

headquarters and main

were installed at

buildings

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Ongoing 'SCB says no to

plastic' to ban single-use

items

'Throw-Away-Day' under 5 Sor initiative which encourages employees to correctly recycle or throw away trash and unused

Collected and sold over 28,428 kilograms of recycled items

Turned 6,000 kilograms of food waste into 1,500 kilograms of fertilizer for trees around the Bank or donated to employees and interested parties

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Water

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Total water consumption 0.24 (million cubic meters) against 2020 target of 0.30 (million cubic meters)



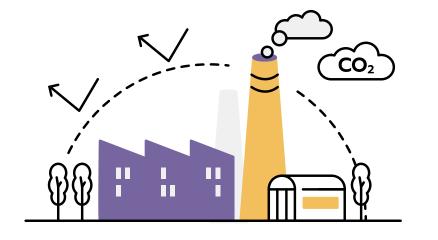
Reduced 30% from 2019



Greenhouse Gas Emissions

Total volume of Greenhouse Gas Emission

- Direct emissions 9,629 (tons of carbon dioxide equivalent) against 2020 target of 10,152 (million cubic meters)
- Indirect emissions 13,218 (tons of carbon dioxide equivalent) against 2020 target of 17,272 (million cubic meters)
- Emissions from air travel 551 (tonnes of carbon dioxide equivalent) against 2020 target of 2,520 (Tonne CO2e)



Reduced 13% for Scope 1 and 26% for Scope 2 from 2019

Change for the Better Environment

In 2020, the Bank adopted a Work from Anywhere (WFA) policy, introducing a new way of work which has significantly reduced energy consumption and pollution associated with commuting to and from work.



Eco-friendly Vehicle Program

Changed 17 fleet cars of senior executive to electrical vehicles, helping reduce petroleum consumption by 400,000 liters over five years. The effort also reduced over 500 tons of carbon dioxide equivalent, or equal to planting 18 rai of forest.





Environmental Footprint Reduction

SCB Work from Anywhere

Compared to the traditional way of work, the adoption of a Work from Anywhere policy has reduced some 960,000 tons of carbon dioxide equivalent, equal to planting 653,500 rai of forest per year.

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Cultivating Employee Awareness

The Bank seeks to build employee awareness in doing their part, contributing to the efforts for mitigating environmental impact through mandatory environmental management training for general employees and providing in-depth knowledge to specific employee groups. At the same, the Bank also organizes various awareness campaigns and communications to share environmental knowledge.



80% of SCB employees completed environmental management training

The course content includes:

- Environmental Management Policy
- ISO 14001:2015 standards
- 5R principles for waste reduction
- Correct way of sorting waste
- Energy efficiency approach for buildings

458 employees who are were equipped with in-depth environmental knowledge such as

- Environmental aspects and issues identification
- assessment
- standards

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Climate Risk and Resilience



Environmental **Footprint Reduction**



Promoting and Supporting Customer Environmental Management

The Bank is committed to reducing environmental and social impacts from lending and investment activities through the adoption of a Responsible Lending framework while seeking to promote a positive environmental impact by developing and offering social and eco-friendly products to all customer segments in order to ensure sustainable growth together. For more information on 2020 performance, please see the 'Sustainable Finance' chapter.

environmental-related representatives

Environmental risks and opportunities

Environmental, Occupational Health, and Safety laws for big buildings as specified by the ISO 14001:2015 and ISO 45001:2018

Internal audit for environmental issues

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Promoting Engagement throughout the Value Chain

The Bank has reviewed and revised operational procedures relating to organizing events and as well as interactions with suppliers in order to promote socially and environmentally responsible operations.

Eco-friendly Event Organization

In 2020, the Bank required event organizers and suppliers to organize events or activities on the Bank's premises to comply with environmental and safety measures consistent with the Bank's procedures. Those organizing events and selling goods within SCB's premise must utilize only eco-friendly and non-polluting products. Organizers must also sort waste into general, recycled, and organic waste before disposing of it at a designated location. Non-compliance incurs penalties as specified in procedures.

Green Procurement

The Bank works closely with suppliers to continuously improve environmental performance by specifying procurement procedures which consider environmental impacts. Every vendor is required to acknowledge the SCB Supplier Code of Conduct before commencing work with the Bank. This document specifies legal compliance on the basis of human rights and environmental management.

To better understand vendors and to more effectively manage supply chain sustainability, the Bank classifies suppliers into different groups based on their procurement value, product, and service type, and strategic importance to facilitate supplier management and regulatory compliance.



Bottles



Plastic Cups

Synthetic Containers

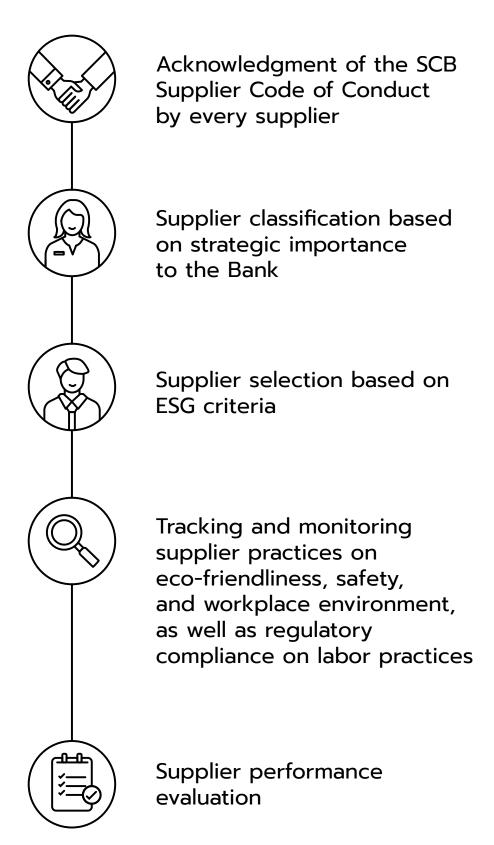


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Green Procurement



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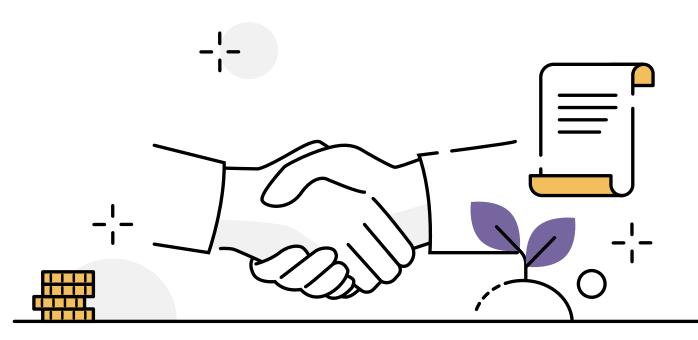
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Continuous process improvement and communication

In 2020 the Bank improved its procurement process and assessed supplier efficiency in terms of environmental prudence by specifying environmental and safety requirements for new supplier selection, which assessment results are used as input into future hiring decisions. This practice is communicated during the annual Vendor Communication Day event, which had more than 185 participants in 2020.



Climate Risk and Resilience



Environmental Footprint Reduction



NEW VENDORS

Starting in June 2020, 100% of new suppliers passed environmental and safety assessments



MORE THAN 185 SUPPLIERS

Participated in the 2020 Vendor Communication Day and learned about sustainable business practices

Environmental Performance

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Performance Indicator

Energy Consumption



Total energy Consumption (megawatt-hours)

Greenhouse Gases Emission



Direct emissions (tonnes of carbon dioxide equivalent)



Indirect emissions (tonnes of carbon dioxide equivalent)

Water Consumption



Total water consumption (million cubic meters)

Waste Disposal



Total non-hazardous waste to landfills (tonnes)



Business Travel



Greenhouse gas emissions from air travel (tonnes of carbon dioxide equivalent)





	2017	2018	2019	2020	2020 target	
	52,246	50,215	45,088	34,358	40,967	
	9,042	10,912	11,081	9,629	10,152	
	22,023	20,406	17,767	13,218	17,272	
	0.37	0.42	0.35	0.24	0.30	
	5,484	6,099	3,513	2,686	3,367	
	710	642	850	862	-	
	4,830	4,238	3,099	551	2,520	