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# Assessing the Impact of Climate Change on Business in Vietnam

Handbook of tools and resources for Vietnam's private sector

MARCH 2021



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# Building climate resilience among Vietnam's private sector

Businesses in Vietnam face unprecedented climate risk—the country is one of the most vulnerable countries to climate change and exposed to more than 20 types of natural disasters, especially storms, tropical depression, flash floods, droughts, saline intrusion, and coastal erosions. Climate change can affect all business sectors in Vietnam. For example:

- **Agriculture:** In the Mekong River Delta, salinization and flooding could decrease rice productivity by 13% by 2050.
- **Tourism:** Strong typhoons, sea-level rise, and storm surge affect Vietnam's coastline and tourism industry. Beach erosion washed away 4,000 square meters of Cua Dai Beach.
- **Manufacturing:** Warming temperatures are affecting garment quality, decreasing worker productivity, and increasing cooling demand and costs. One meter of sea-level rise could affect firms in Ho Chi Minh City and the Mekong Delta, which contribute 56% of national industrial production value.

To build resilience, companies are advised to assess their risk in operations, the supply chain, and the communities in which they work. By assessing risk across their value chains, businesses can work toward ensuring owned and direct operations are preserved, restored, or improved, and can also establish safeguards to reduce climate risk and build resilience among suppliers and communities.

# Overview

This handbook contains a selection of publicly-available tools and resources to help guide businesses in Vietnam to understand the projected physical impacts of climate change in the country and region, how to adapt to those changes, lessons learned from programs implemented in the region, and risk profiles specific to different locations and social groups.

The handbook includes the following tools and resources:

1. Climate change definitions, policies, and government commitments
2. Databases, assessments, and engagement opportunities
3. Global research, guidance, and case studies

## Legend:



Report or analysis







Excel tool (data inputs and downloading is required)



Web portal (e.g. select values from a dropdown menu)







# 1. Climate change definitions, policies, and government commitments

# 1. Climate Change Definitions, Policies, and Government Commitments

Name	Tool Type	Description	Function	URL
Glossary of Terms and Definitions on Climate Change and Adaptation (VN)		Publication from the Mekong River Commission (for Sustainable Development) providing an overview of climate change and climate adaptation terms, concepts and definitions.	<ul style="list-style-type: none"> <li>Increase awareness of climate change concepts.</li> </ul>	<a href="#">Report</a> (VN)
Climate Laws and Policies Database – Vietnam Country Page (VN)		Database from LSE's Grantham Research Institute on Climate Change and the Environment of Vietnam's climate change-specific laws, policies, and litigation cases.	<ul style="list-style-type: none"> <li>Repository of Vietnam's climate legislation, goals and targets, and comparison to those of other countries. Contains documents in Vietnamese.</li> </ul>	<a href="#">Website</a> (note: each law policy contains a version of the full Vietnamese language text)
Vietnam's Nationally Determined Contribution (NDC)		Vietnam's submission under the United Nations Framework Convention on Climate Change (UNFCCC) on how the country, including both the public and private sectors, will align with the Paris Agreement.	<ul style="list-style-type: none"> <li>Understand Vietnam's progress on both climate mitigation and adaptation, and the country's needs and plans through 2030.</li> <li>Identify how the private sector can align with, support, or collaborate with public sector efforts.</li> </ul>	<a href="#">Original 2015 Report</a> <a href="#">Updated 2020 Report</a>
National Adaptation Plan, 2021-2030 (Vision 2050)		The NAP lists 150 projects and programs in collaboration with the private sector that are proposed for implementation. These activities aim to enhance the climate change adaptation capacity of both enterprises and the community at large.	<ul style="list-style-type: none"> <li>Identify how the private sector can align with, support, or collaborate with public sector efforts</li> </ul>	<a href="#">2020 Report</a> (VN) MONRE 2020 <a href="#">Press Release</a>







## **2. Databases, assessments, and engagement opportunities**

## 2. Databases, assessments, and engagement opportunities (1/3)




Name	Tool Type	Description	Function	URL
Climate Change Knowledge Portal – Vietnam Country Page	 	Database from the World Bank of historic trends and future projections (up to 2099) of 30+ climate variables (e.g. temperature, precipitation, extreme drought) under varying GHG emissions scenarios for different global regions, countries, and specific GPS coordinates (via map).	<ul style="list-style-type: none"> <li>View historical and projected climate data for specific cities/regions within Vietnam or the entire country.</li> <li>Toggle between the different IPCC emissions scenarios, select different climate variables, and view projections for the 10<sup>th</sup>, 50<sup>th</sup>, and 90<sup>th</sup> percentiles.</li> </ul>	Vietnam Country <a href="#">Webpage</a>
Vietnam Climate Impacts Decision Support Tool (VN)		Lessons learned from a USAID tool created in collaboration with the Vietnam Institute for Urban-Rural Planning to help integrate and formalize the considerations of climate change impacts into Vietnamese urban planning processes.	<ul style="list-style-type: none"> <li>Insert location data to identify which climate impacts are of high concern and what actions, if available, would city officials recommend to reduce the impacts.</li> <li>Gain locally relevant information and guidance from local policymakers and other key stakeholders.</li> </ul>	<a href="#">Excel tool and two guides</a> (VN)
Climate Expert: Adaptation Assessment and Training Tools for SMEs	 	A Quick Company Assessment for SMEs, a Full Company Assessment for SMEs, and a guide for Industrial Zones offered by the Global Program on Private Sector Adaptation to Climate Change, developed by GIZ.	<ul style="list-style-type: none"> <li>Assess climate-related risks and identify opportunities for adaptation for SMEs and industrial zones using worksheets and a methodology presented in the Excel tool.</li> </ul>	<a href="#">Webpage</a> Full company assessment ( <a href="#">Excel</a> ) Case studies ( <a href="#">Bangladesh</a> )
Gender Equality within Climate Change Programming		Report from CARE International addresses the interaction between social issues and climate change in Vietnam, how gender is a critical factor in responding to climate change given its impact on fulfillment of legal rights, resource distribution, and community power dynamics.	<ul style="list-style-type: none"> <li>Increase awareness of how gender is a decisive factor in climate change adaptation, mitigation planning and implementation in Vietnam.</li> <li>Draw on lessons and examples from other projects that aim to uphold gender equality and climate action. For example, explore gender-based barriers in the workplace, division of labor, and access to healthcare.</li> </ul>	Report ( <a href="#">EN</a> ; <a href="#">VN</a> )



## 2. Databases, assessments, and engagement opportunities (2/3)




Name	Tool Type	Description	Function	URL
The Asia Foundation – Adapting to Succeed: Assessing the Impact of Climate Change on Vietnamese Businesses		A wide-ranging business survey on the topic of climate change in Vietnam. The report includes responses from 10,356 enterprises across all 63 provinces and cities throughout the country.	<ul style="list-style-type: none"> <li>Identify how businesses across Vietnam are coping with climate change and the upcoming actions they are planning take to address these climate issues.</li> </ul>	<a href="#">2020 Report (VN)</a> <a href="#">2020 Report (EN)</a>
The Asia Foundation – Natural Disaster Risk Management Business Training Handbook	 	Lessons learned from a USAID tool created in collaboration The Asia Foundation. The handbook links SMEs with government and community groups to help businesses prepare for future floods and storms.	<ul style="list-style-type: none"> <li>Explore the disaster risk management (DRM) training curriculum for SMEs, including a methodology for assessing risk and potential losses, disaster-proofing facilities, and building staff preparedness.</li> </ul>	<a href="#">2011 Report (VN)</a>
MARD – Guide on Community-Based Disaster Assessment		Focuses on training relevant community members, including local authorities, on how to account for climate change impacts on vulnerable groups, businesses, and safety.	<ul style="list-style-type: none"> <li>Access community tools (i.e. historic data collection, trend analysis) and instructions on how to use each tool in community workshop activities.</li> </ul>	<a href="#">2014 Report (VN)</a> <a href="#">2015 Report (EN)</a>
VACI – ASEAN Water Portal		Provides historic data on water usage from numerous sites throughout Vietnam.	<ul style="list-style-type: none"> <li>View data such as water forecasting, mean annual precipitation on a monthly or yearly basis, and soil moisture levels.</li> </ul>	<a href="#">Webpage (EN)</a>
The World Bank -- Resilient Shores: Vietnam's Coastal Development Between Opportunity and Disaster Risk		Provides an in-depth and multi-sectoral analysis of natural risks in coastal Vietnam and reviews efforts in risk management; recommends action plans that balance the risks and opportunities of coastal development.	<ul style="list-style-type: none"> <li>View provincial breakdown of average number of people exposed to flooding each year.</li> <li>Assess where infrastructure is most vulnerable to flooding, and potential damage from typhoons.</li> </ul>	<a href="#">2020 Report (VN)</a> <a href="#">2020 Report (EN)</a>

## 2. Databases, assessments, and engagement opportunities (3/3)





Name	Tool Type	Description	Function	URL
Monitoring Adaptation to Climate Change Tool	 	Results-based monitoring tool for adaptation projects developed by GIZ for project developers and managers. Results-based monitoring systems can be incorporated into adaptation development plans.	<ul style="list-style-type: none"> <li>• Upload monitoring data to assess project progress.</li> <li>• Define up to 15 intended results with up to 3 indicators each into the Excel tool.</li> </ul>	<a href="#">Report</a> (Guidebook) <a href="#">Excel</a> tool and <a href="#">PDF</a> guide
Mapping of Global and Regional Funds, Networks and Programmes		Mapping of global and regional initiatives—from funds, networks, alliances, partnerships, organizations to programs and projects—that either have a focus on resilience or cover some aspect of resilience; developed by The Global Resilience Partnership (GRP).	<ul style="list-style-type: none"> <li>• Identify areas of opportunity—potential funding sources, collaborations, or projects, etc.—to strengthen resilience efforts</li> </ul>	<a href="#">Mapping report</a>

# 3. Global Analysis, Guidance, and Case Studies

### 3. Global analysis, guidance, and case studies (1/2)

Name	Tool Type	Description	Function	URL
Intergovernmental Panel on Climate Change (IPCC): Global Warming of 1.5°C Report		Research and analysis from the leading global scientific community, documenting the impacts that may result from an increase of 1.5°C global warming on various regions, along with scientific and technical analysis of different scenarios.	<ul style="list-style-type: none"> <li>Assess how different regions and industries (e.g. agriculture, manufacturing, tourism, etc.) may be affected by 1.5°C of global warming, as well as in more severe warming scenarios.</li> </ul>	<a href="#">Webpage</a>
The Task Force on Climate-Related financial Disclosures (TCFD): Implementation the Recommendations and Technical Supplement		<p>Recommendations from the G-20 Financial Stability Board’s Task Force on Climate-related Financial Disclosures, guiding companies to assess, manage, and disclose climate change-related risks and opportunities for the business. The TCFD also provides guidance and considerations on conducting a scenario analysis to help businesses to assess future risks.</p> <p>Disclosing climate-related risks and opportunities can reassure investors about risk management and avoid reduced access to finance.</p>	<ul style="list-style-type: none"> <li>Review guidance for all sectors on how to implement the recommendations; explore information on the types of climate-related risks and the potential financial impacts</li> <li>Explore case studies in the 2019 Status Report from other companies that integrated the TCFD recommendations into their risk management, business strategy, and reporting/disclosure practices.</li> </ul>	<a href="#">Implementation Report</a>  <a href="#">Technical Supplement</a>  <a href="#">2019 Status Report</a>
United Nations Private Sector Initiative Database		Case studies of businesses that successfully executed climate adaptation and resilience projects across the world. Some of the case studies spotlight businesses in Cambodia, Indonesia, Laos, Philippines, Thailand, and Vietnam.	<ul style="list-style-type: none"> <li>Review private sector examples of climate adaptation and resilience projects in Southeast Asia</li> </ul>	<a href="#">Webpage</a>

### 3. Global analysis, guidance, and case studies (2/2)

Name	Tool Type	Description	Function	URL
United Nations Global Compact: Responsible Climate Adaptation		A non-binding pact to encourage businesses worldwide to adopt sustainable and socially responsible policies, and to report on their implementation. The Responsible Climate Adaptation effort focuses on accelerating business action, by showcasing commitments to support practical resilience action.	<ul style="list-style-type: none"> <li>• Showcases company climate adaptation efforts, such as the Race to Resilience campaign and Water Resilience Coalition.</li> <li>• Contains a business application where company executives can formally commit to implement the Ten Principles of the UN Global Compact.</li> </ul>	<a href="#">Webpage</a>
Global Resilience Partnership		Partnership of organizations—NGOs, enterprises, and governments—to focus on building resilience amongst vulnerable communities and geographies.	<ul style="list-style-type: none"> <li>• Promotes peer-to-peer learning and collaboration to ensure that relevant climate resilience knowledge is accessible.</li> <li>• Invests in resilience innovations in vulnerable regions, and acts as incubator for initiatives that build resilience.</li> </ul>	<a href="#">Webpage</a>
Global Center on Adaptation		International organization that operates as a “solutions broker” to accelerate action and support for adaptation solutions. Partnerships include public and private sector actors to collaborate on climate resilient action.	<ul style="list-style-type: none"> <li>• Regularly publishes white papers and technical reports on relevant climate topics, such as innovative financing models for nature-based solutions; water climate adaptation; infrastructure resilience etc.</li> </ul>	<a href="#">Webpage</a>
BSR Collaborative Initiative: Value Chain Risk to Resilience		Business collaboration that aims to build climate resilience for communities, farmers, and workers along value chains, by accessing climate risks, developing standard approaches for business action on resilience, and promoting collaboration amongst businesses.	<ul style="list-style-type: none"> <li>• Enables participating companies to assess climate risks within their value chains, identify metrics to measure climate resilience, implement financial disclosures on governance and enterprise risk management (in line with TCFD guidelines), and develop programs and initiatives to address climate risks with other companies.</li> </ul>	<a href="#">Webpage</a>

# Thank You

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BSR™ is a global nonprofit organization that works with its network of more than 250 member companies and other partners to build a just and sustainable world. From its offices in Asia, Europe, and North America, BSR™ develops sustainable business strategies and solutions through consulting, research, and cross-sector collaboration.

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