

Mitr Phol Group

Biodiversity Risk Assessment Report



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MITR PHOL Biodiversity Commitment & No Deforestation Commitment

Our commitment toward biodiversity

- Commitment on biodiversity includes own operations, stakeholders, tier-1 suppliers, non-tier 1 suppliers, and business partners who must comply with the followings:
- Integrate the biodiversity assessment and management by imposing Mitr Phol Group's Security, Safety, Occupational Health, and Environment policy.
- Strive to prevent any net loss of biodiversity (No Net Loss: NNL) and promote new project implementation to have Net Positive Impact (NPI) if feasible.
- Determine to conduct business without impact on net forestation area (NO Net Deforestation) with an aim to compensate forest loss from current or future business operations.

M MITR PHOL Biodiversity Commitment & No Deforestation Commitment

- We are committed to preserving biodiversity in all operations and the value chain. Biodiversity conservation is one of the Mitr Phol sustainability frameworks that we approach.
- Biodiversity Management is an integral part of the Company's Security, Safety, Occupational Health and Environment Policy.
- The Biodiversity Risk Impacts assessment has been conducted and its result been considered in prevention and mitigation measures in order to lessen environmental impacts and loss of biodiversity as per the Biodiversity Management Statement.

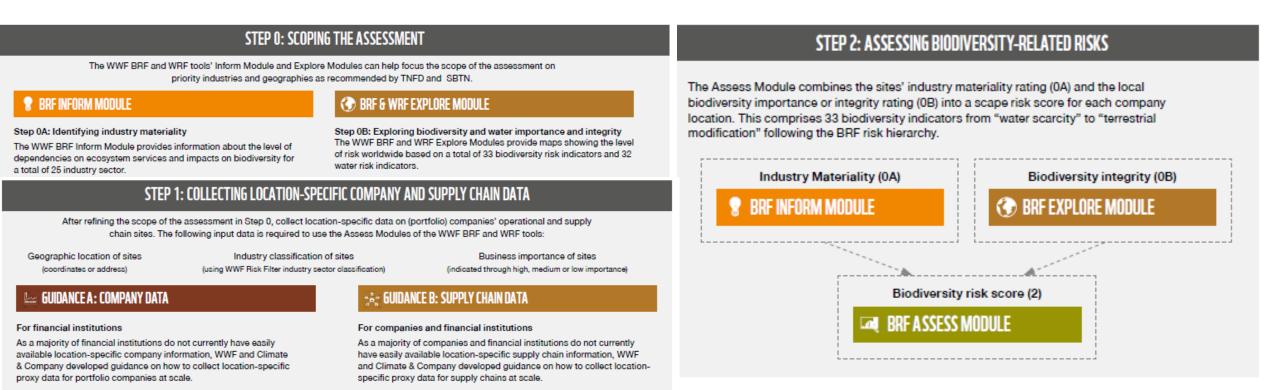
MITR PHOL SUSTAINABILITY FRAMEWORK GOVERNANCE ENVIRONMENTAL Y Q 16 HAE ASTRO SOCIAL EFFICIENT CLEAN ENERGY ATER MANAGEMENT CORPORATE GOVERNANCE 4 GUALITY SOUCATION RISK, AND COMPLIANCE 00 17 PARTNERSHIPS INDUSTRY SUSTAINABLE FOOD SECURIT AND INNOVATION 88 MANAGEMEN 13 ALTIN COLLABORATION FOR SUSTAINABLE DEVELOPMENT BIODIVERSITY CLIMATE VALUABLE OCCUPATION REDUCED INEQUALITIES ADAPTATION ONSERVATION AND ECONOMIC GROWTH AND RESILIEN

THROUGH HUMAN CAPITAL, INNOVATION, AND DIGITAL

MITR PHOL Biodiversity Risk Assessment Methodology



Overview of implementation steps to run the WWF BRF or WRF Assess Modules



STEP 3: AGGREGATING BIODIVERSITY RISK TO THE COMPANY AND PORTFOLIO LEVEL

- GUIDANCE C: AGGREGATION

For addressing the needs of financial institutions, WWF and Climate & Company developed guidance on how to aggregate scape risk per indicator to the company and portfolio level using the site-specific WWF BRF data outputs. While this guidance focuses on biodiversity risk, the same aggregation approach can be applied with the outputs of the WWF WRF data outputs.

MITR PHOL Biodiversity Risk Assessment Methodology



- Mitr Phol group implemented the WWF biodiversity risk filter (WWF BRF) to understand and assess the biodiversity-related risks of our operational locations and value chains to prepare an appropriate response plan.
- Currently, the WWF Biodiversity Risk Filter tool assesses two types of biodiversity-related business risk: Physical and Reputational.



chain

The Scope of biodiversity risk assessment of Mitr Phol group includes our own operations sites and upstream activities. To assess and prioritize biodiversity risks at the corporate and portfolio levels, we apply the WWF biodiversity risk filter (WWF BRF).

SCOPING THE ASSESSMENT	COLLECTING LOCATION- SPECIFIC COMPANY AND SUPPLY CHAIN DATA	ASSESSING BIODIVERSITY- RELATED RISKS	AGGREGATING BIODIVERSITY RISK TO THE COMPANY AND PORTFOLIO LEVEL
 Identifying industry materiality - level of dependencies on ecosystem services and impacts on biodiversity Identifying the site to assess through the company value 	 Collecting the data to assess the WWF BRF which includes Geographic location of sites Industry classification of sites Business importance of sites 	 Scape risk score for each company location. Interpret the Risk Assessment Results 	 Integrated biodiversity risks into multi disciplinary company wide risk management processes

SCOPING THE ASSESSMENT

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Water Scarcity	990	000	660	000	000	0000	000	0000	
Forest Productivity and Distance to Markets Limited Wild Flora & Fauna Availability			000		000		000		
Limited Marine Fish Availability	000	000	000	00	000	8000	000	0000	
Soil Condition	00			000	000	0000	00	0000	
Water Condition	600	0000	000	8 6 0	000	9999	000	0000	
Air Condition	888	000	000	000	000	0000	000	0000	
Ecosystem Condition	000			0 6 0			000	0000	
Pollination	00	000	000	000	000	0000	000	0000	
Landslides	000	000	000	000	000	0000	000	0000	
Wildfire Hazard	000	000	000	000	000	0000	000	0000	
Plant/Forest/Aquatic Pests and Diseases	000			000	000	0000	000	0000	
Herbicide Resistance	000			000	000	0000	000	0000	
Extreme Heat	66	000	000	0 🛛 🕄	0000	0000	000	000	
Tropical Cyclones	664	000	000	000	000	0000	000	0000	
Tourism Attractiveness	000	000	000	000	000	G O O O	000	0000	
Land, Freshwater and Sea Use Change	5 5 1	1 1 1	1 5 3	1 5 1	1 1 1	1 5 5 1	5 5 3	1 5 1 3	
Tree Cover Loss	5 5 1	1 1 5	4 4 1	1 1 1	1 1 1	3 5 5 1	5 5 5	1 5 1 3	
Invasives	3 3 2	1 1 2	1 2 1	/ 3 2	2 2 /	3 2 2 /	2 3 2	8 3 3 2	
Pollution	5 5 5	5 5 5	5 4 4	5 5 4	4 4 5	2 5 5 2	5 4 2	5 4 2 1	
Protected/Conserved Areas	5 5 3	3 3 3	5 4 4	3 3 3	1 1 3	1 5 5 1	5 5 3	3 5 3 3	
Key Biodiversity Areas	4 4 2	2 2 2	4 3 3	2 2 2	1 1 2	1 4 4 1	4 4 2	2 4 2 3	
Other Important Delineated Areas	4 4 2	2 2 2	4 4 2	2 2 2	1 1 2	1 4 4 1	4 4 2	2 4 2 3	
Ecosystem Condition	4 4 2	2 2 2	4 4 2	2 2 2	1 1 2	1 4 4 1	4 4 2	2 4 2 3	
Range Rarity	3 3 1	1 1 1	3 3 3	1 3 1	1 1	2 3 3 /	3 3 2	1 2 2 2	
Indigenous Peoples (IPs): Local Communities (LCs) Lands and Territories	5 5 3	3 3 3	3 5 3	3 3 3	1 1 3	1 5 5 1	5 5 3	3 5 3 3	
Resource Scarcity: Food - Water - Air	3 3 1	1 1 1	1 1 7	1 2 2	1 2 1	3 1 2 /	2 1 1	2 1 1 1	
Labor/Human Rights	4 4 2	2 2 2	2 2 2	2 4 2	2 2 2	4 4 4 2	4 2 2	4 2 2 3	
Financial Inequality	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2	2 2 2 2	2 2 2	2 2 2 2	í
Media Scrutiny	660	000	000	0 6 6	000	000	000	0000	
Political Situation	000	000	000	000	000	0000	000	0000	
Sites of International Interest	000	000	000	000	000	0000	000	0000	
Risk Preparation	000	000	000	000	000	0000	000	0000	
No dependency	1 Very low	Low	Medium	🕢 High	5 Very high	DIRECT DEPEND	ENCY		
No impact	Very low	Low	3 Medium	High	5 Very high	DIRECT IMPACT			

Identifying industry materiality

- Mitr Phol Group has **identified industry materiality** included the level of dependencies on ecosystem services and impacts on biodiversity.
- The types of industry from our own operations area and the value chain shown as the table below :

Industry	Sites
Agriculture (plant products)	4
Chemicals & Other Materials Production	8
Electric Energy Production - Geothermal or Combustion (Biomass,	
Coal, Gas, Nuclear, Oil)	14
Electric Energy Production - Solar, Wind	2
Food & Beverage Production	11
Health Care, Pharmaceuticals and Biotechnology	1
Offices & professional services (e.g., Consulting, Software, Real	
Estate, Financial Institutions)	3
Other	7
Paper & Forest Product Production	5
Transportation Services	2
Grand Total	57

SCOPING THE ASSESSMENT

Type of Site			Sites	
Own operation and adjacent areas – 53 sites	 RDC RaiESarn MDC MPK MPV MPL MKS MAC MSB MBP-KS MBP-KN MBP-AC MBP-DC MBP-PK MBP-PL 	 MBF-PK MPSBT MBF-DC MBF-KS MBF-KN MCE RGS BGP PWP BAI KPG CAB GPH SWDH STEEM ARE SGE 	 PNP PNP-BP PND PPM MPB PDL WSC UST FF MPW AAW 	 PPC-DC PPC-PK PPC-SR PPCS RDI KIC ETO TEED HIN
Upstream Activities 2 site				
Downstream Activities 2 site				

COLLECTING LOCATION-SPECIFIC COMPANY AND SUPPLY CHAIN DATA

• We collect the site name and the specific location in each area operated and the supply chain. The Criteria for classifying different levels of business importance of own operational sites and the supply chain as follows :

Own operations

High business importance level

- Operational controls & core business
- High revenue
- Medium business importance level
- Operational controls
- Medium revenue

Low business importance level

- Operational controls
- Low revenue

Upstream activities

• The representatives of suppliers

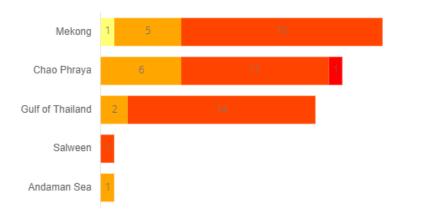
Downstream activities

The representatives of customers.

ASSESSING BIODIVERSITY-RELATED RISKS

Risk analysis for: Mitr Phol Group and the value chain

Number of Sites by Land- or Seascape



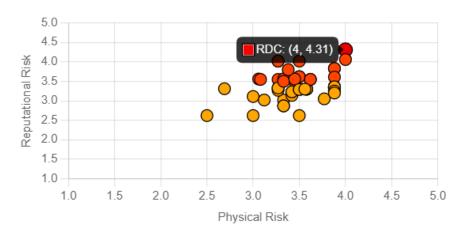
Number of Sites by Risk Category



Number of Sites by Risk Type



Physical Risk vs. Reputational Risk



WWF Biodiversity Risk Filter levels

Very low Low Medium High Very high (1.0-1.8) (1.8-2.6) (2.6-3.4) (3.4-4.2) (4.2-5.0)

ASSESSING BIODIVERSITY-RELATED RISKS

Interpret the results

- By comparing the risk types, Mitr Phol group had a higher risk score on physical risk than reputational risk which mean the physical risk is more critical to the site.
- When conducting an analysis of risk categories, it was found that the highest category that company sites falling in were
 Environmental Factors. A high risk score in this risk category is a result of high impact of the industry on these environmental
 assets in combination with already high location risk scores. Areas of very high location risk in this category are likely to be
 have a high number of local environmental assets.
- The RDC (farming business) was the highest sites on biodiversity risk score both physical risk and reputational risk where located in Suphanburi Province the central part of Thailand. Although, this site was the highest risk score and the revenue from this site was only 0.05%, our company integrated biodiversity risks into multi disciplinary company wide risk to management processes and apply the mitigation hierarchy to minimize the negative impacts on nature.

Risk Management Framework GROUP Biodiversity Risk Assessment Result

Identified biodiversity-related risks

AGGREGATING BIODIVERSITY RISK TO THE COMPANY AND PORTFOLIO LEVEL

Risk Management Framework

