



EMPOWERING ALL TOWARD
INCLUSIVE GROWTH

2.7.1 Progress Report of Biodiversity Risk Assessment

2023



Biodiversity Risk Assessment Process

Approach and Assessment Methodology

To effectively address potential biodiversity impacts and ensure no net loss of biodiversity and ecosystem, OR has adopted a comprehensive approach by implementing the Biodiversity and Ecosystem Service No Net Loss Assessment Guideline and the Biodiversity and Ecosystem Service Risk Assessment Guideline. These guidelines, set by the PTT Group, provide a standard toolset to measure and address potential biodiversity impacts within our operations, adjacent areas, and throughout our value chain.

Our approach involves screening operations and adjacent areas using location-based assessments to conduct a thorough biodiversity risk assessment, we employ a range of tools and resources, including the Integrated Biodiversity Assessment Tool (IBAT), the International Union for Conservation of Nature (IUCN) Red List species, and the National Conservation List. These resources enable us to identify areas of high conservation value and prioritize sensitive habitats and species that require protection.

Steps of Our Biodiversity Risk Assessment

- Assess the locations of OR's own operations and adjacent areas by using the Integrated Biodiversity Assessment Tool (IBAT) to determine the exposure to critical biodiversity.
- Identify potential risk related to biodiversity from OR's own operations and adjacent areas to the nearest critical biodiversity areas.
- Analyze the impacts of OR's activities on critical biodiversity areas.
- Define measures to mitigate negative impacts on biodiversity potentially caused by OR's activities.

Scope of Biodiversity Risk Assessment

OR is committed to conducting comprehensive biodiversity assessments to ensure that our operations minimize potential impacts on ecosystems and contribute positively to conservation efforts. To achieve this objective, we follow Biodiversity and Ecosystem Service No Net Loss Assessment Guideline and Biodiversity and Ecosystem Service Risk Assessment Guideline, which is a standard tool set by PTT Group to measure and address impact on potential biodiversity impacts within various scopes, including our own operations and adjacent areas within 50 km.

Own Operations: We focus on assessing the direct impacts of our facilities, such as petroleum terminals, aviation depots, and Cafe Amazon roasting plants.

Adjacent areas to our own operations: we consider the potential indirect impacts of our activities on nearby ecosystems, communities, and natural resources. This may include assessing the influence of our operations on wildlife corridors, water resources, or other sensitive habitats that may be affected by noise, pollution, or habitat fragmentation.

Biodiversity Risks Assessment Progress

Identified Biodiversity-related Risks

As of 2022, OR has assessed 100% of our activities, including own operations and adjacent areas in total 30 sites, covering a total area of 172.21 hectares, with a total exposure of 81.70 hectares. Our assessment revealed that some locations are in the vicinity of marine protected areas, such as the Phuket Aviation Depot. Additionally, we identified 9 establishments located in areas of high biodiversity value, as follows:

1. Café Amazon Roasting Plant
2. Bang Pa-in Oil Depot
3. Bangchak Petroleum Terminal
4. Lam Luk Ka Oil Depot
5. Phitsanulok Oil Depot
6. Phra Khanong Oil Depot
7. Samut Sakhon Oil Depot
8. Suratthani Petroleum Terminal
9. Phuket Aviation Depot

These findings highlight the importance of continued diligence in managing potential impacts on biodiversity and ecosystems. OR remains committed to preserving biodiversity and minimizing our environmental footprint by implementing appropriate mitigation measures and adapting our operations to reduce any adverse effects on the surrounding habitats and species.

Biodiversity Risks Assessment Progress



Site			Exposure		Assessment	Mitigation
Name	Location	Area (Ha)	National Reserved Forest	World Heritage areas and IUCN Category I-IV protected areas	Baseline Study / Impact Assessment	Mitigation Action
Café Amazon Roasting Plant	14.292136; 100.806739	3.20	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring
Bang Pa-in Oil Depot	14.174776; 100.544858	8.00	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring
Bangchak Petroleum Terminal	13.690189; 100.59137	13.23	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring and received outstanding EIA monitoring awards
Lam Luk Ka Oil Depot	13.905661; 100.593283	11.76	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring
Phitsanulok Oil Depot	16.80764; 100.266535	1.94	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring

Biodiversity Risks Assessment Progress



Site			Exposure		Assessment	Mitigation
Name	Location	Area (Ha)	National Reserved Forest	World Heritage areas and IUCN Category I-IV protected areas	Baseline Study / Impact Assessment	Mitigation Action
Phra Khanong Oil Depot	13.702322; 100.586494	17.60	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring
Samut Sakhon Oil Depot	13.533506; 100.246289	2.00	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring
Suratthani Petroleum Terminal	9.176633; 99.366614	23.09	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring and received outstanding EIA monitoring awards
Phuket Aviation Depot	8.106014; 98.307828	0.87	Yes	Yes	Impact: High (close to protected area/ high biodiversity value area)	<ul style="list-style-type: none"> - Publish biodiversity statement - Set up biodiversity procedure - Implementation monitoring



**EMPOWERING ALL TOWARD
INCLUSIVE GROWTH**

OR เติมเต็มโอกาส เพื่อทุกการเติบโต ร่วมกัน

*Harnessing OR
competencies to support,
fulfill, and elevate*

*Sustainable growth
with Living Community,
Healthy Environment, and
Economic Prosperity*

*Moving forward with
strong determination and
leaving no one behind*

*6 groups of
OR stakeholders*