

Biodiverse Habitats in Cypark's Sites

Cypark Resources Berhad is dedicated to the preservation of biodiversity within its operational areas. This commitment reflects our focus on environmental stewardship and supports the sustainable development goals of the communities we serve.

Biodiversity at Danau Tok Uban Floating Solar Plant

The Danau Tok Uban floating solar project in Kelantan exemplifies how Cypark integrates renewable energy with biodiversity preservation. Recent data from the Department of Fisheries covering 2018-2023 enriches this narrative and highlights our efforts in fostering a harmonious relationship between energy production and ecological sustainability.

Adjacent Biodiverse Habitat

The solar plant operates on a lake recognised for its rich biodiversity, including over 30 species of fish and numerous aquatic plants. The facility's design and operation ensure minimal disruption to local ecosystems, promoting sustainable fish populations and enhancing habitat quality.

- **Wildlife Management:** Trained professionals from the Malaysia Civil Defence Force (MCDF) and the Fire and Rescue Department are deployed to relocate snakes, such as the *Boiga dendrophila melanota* (Yellow Ring Cat Snake), that may venture onto the solar platforms. This proactive approach minimizes risks to workers and ensures the safety of both wildlife and our team.



Pareas carinatus (Ular Siput)



Bungarus Candidus (Malayan Krait)



Chrysopelea Paradisi



Ophiophagus Hannah (Yellow Cobra)

(Paradise Tree Snake)



Malayophyton Reticulatus
(Yellow Ring Cat Snake)

Boiga Dendrophila Melanota
(Phyton)



Boiga Dendrophila Melanota
(Yellow Ring Cat Snake)

- **Positive Impact on Local Fisheries:** Collaborations with Jabatan Perikanan Negeri Kelantan have shown significant benefits to local aquaculture. Data indicates that fish export volumes from the area increased from 49 metric tons in 2020 to 157 metric tons in 2022, reflecting a 320% growth. This remarkable rise underscores the solar farm's positive influence on local fish habitats and the broader ecosystem.



Pangasianodon hypophthalmus (Ikan Patin)

Conservation and Restoration Efforts

Cypark has undertaken habitat restoration initiatives that include planting native aquatic vegetation to provide shelter and breeding grounds for local fish species. Reports from the Department of Fisheries indicate improvements in water quality and fish diversity since these restoration practices were introduced, with notable increases in catch rates reported by local fishermen.

- **Clearing Invasive Plants:** To maintain the integrity of the water body, efforts have been made to clear invasive species such as *Salvinia*, which are known for rapidly covering water surfaces. Before the project began, surveys indicated that the lake could not sustain the livelihoods of local fishermen due to ecological degradation. Clearing these plants is crucial as decaying vegetation can lead to peat formation, reducing the size of the water body.

Innovation in Renewable Energy and Sustainability

The floating solar panels not only generate clean energy but also reduce water evaporation, enhancing water conservation in the lake. Cypark's efforts to integrate renewable energy with ecological preservation exemplify our commitment to creating sustainable solutions that support both energy production and biodiversity conservation.

Community Engagement and Economic Impact

The project fosters a partnership with local fishing communities, promoting sustainable fishing practices that align with biodiversity goals. The collaboration has led to increased economic benefits for local fishermen due to healthier fish stocks, further demonstrating the positive impact of Cypark's operations on the community.

- Recent images show local fishermen proudly displaying their catches, with fish weighing 5-6 kg each, highlighting the thriving fish populations supported by our conservation efforts. These images reflect the successful collaboration between Cypark and the local community in promoting sustainable fisheries.

Biodiversity at LSS3 100MWac Merchang, Terengganu

In addition to our efforts at Danau Tok Uban, the **Merchang solar farm**, featuring both ground-mounted and floating solar installations, supports a diverse range of wildlife, including various reptiles and fish species.

- **Wildlife Management:** Regular inspections are conducted to manage encounters with wildlife. Snakes such as **Pythonidae** (Python) are safely relocated by trained professionals, while monitor lizards (***Varanus salvator***) play a beneficial role in pest control. Their presence is encouraged, as they help maintain the ecological balance around the solar farm.



Pythonidae (Python)



Varanus salvator (Biawak air)

- **Supporting Aquatic Life:** The floating solar installations at Merchang also create habitats for fish species such as **Siluriformes** (catfish) and **Channa striata** (Haruan). The number of fish populations in this man-made pond is increasing, reflecting a successful integration of renewable energy and biodiversity.



Siluriformes (catfish) and Channa striata (Haruan)

- **Ecological Contribution:** The unique interactions between the floating solar infrastructure and local wildlife contribute to both energy production and biodiversity conservation. Regular monitoring ensures the protection of these ecosystems while minimising disruptions to the local fauna.

Additional Solar Farms and Their Biodiversity Contributions

FIT @ FiAH 13.1MWac Pajam, Negeri Sembilan

The Pajam solar farm, situated on a former landfill site, actively attracts various wildlife species.

- **Wildlife Management:** Regular inspections are conducted to safely capture and relocate any snakes found in the area, curtailing human-wildlife conflicts.
- **Vegetation Management:** Sheep are utilised for natural vegetation management, effectively keeping grass and underbrush trimmed. This approach reduces potential hiding spots for snakes and mitigates the risk of encounters.



Snakes

FIT @ FiAH 6MWac Kuala Perlis, Perlis

Located near a river, this solar farm promotes sustainable land management practices.

- **Wildlife Management:** Regular monitoring ensures that local wildlife is protected, and any encounters are handled safely.
- **Community Engagement:** The project encourages sustainable practices among local fishermen, enhancing their livelihoods.



Ovis Aries (Sheep)

FIT @ FIAH 3.016MWac Bukit Palong, Negeri Sembilan

Situated on a landfill closure site, this solar farm attracts certain types of wildlife.

- **Wildlife Management:** Regular inspections help manage interactions with snakes and ensure safety for workers.
- **Ecological Balance:** The presence of wildlife, including various reptiles, supports ecological balance and pest control around the site.



Malayopython reticulatus (Reticulated python)

FiT @ FiAH 2MWac Rimba Terjun, Pontian, Johor

This solar farm, located near a closed landfill, has a unique ecological impact.

- **Wildlife Management:** Regular inspections and monitoring contribute to the safe handling of local wildlife.
- **Biodiversity Enhancement:** Efforts to maintain the surrounding vegetation help support local fauna and preserve the habitat's ecological integrity.



Ophiophagus Hannah (King Cobra)



Lycodon Capucinus (common wolf snake)

Cypark Resources Berhad is deeply committed to preserving biodiversity and enhancing local ecosystems. Through our initiatives at the Danau Tok Uban floating solar project, we are actively fostering healthy aquatic habitats, promoting sustainable fishing practices, and ensuring that our renewable energy efforts contribute positively to the environment and local communities. Our dedication to biodiversity exemplifies our holistic approach to sustainability, paving the way for a more resilient future for all stakeholders involved.