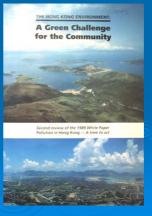




Policy

 The first formal policy on habitat compensation was promulgated as part of our Nature Conservation Policy in 1993. It stated that –

"Our conservation policy seeks to conserve and enhance our natural environment by compensating for areas which merit conservation but which are inevitably lost to essential development projects"



Policy

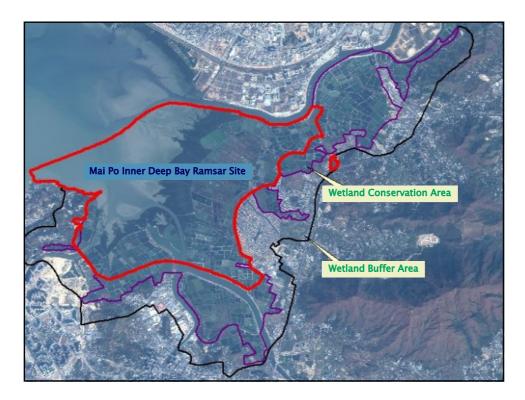
 The new Nature Conservation Policy statement promulgated in 2004 –



"regulate, protect and manage natural resources that are important for the conservation of biological diversity of Hong Kong in a sustainable manner....."

Land Use Planning

- Town Planning Ordinance, Cap 131 provides for the statutory land use control through preparation of Statutory Plans and approval of planning applications.
- The Town Planning Board (TPB) Guidelines No.12B: "Application for Development within Deep Bay Area under Section 16 of the TPO" -
 - Adopts the principle of "no-net-loss" in wetland
 - Wetland compensation is required for any development involving pond filling to be imposed as part of the planning approval conditions
 - Designates the Wetland Conservation Area and Wetland Buffer Area



EIA

• In 1988, a government circular was issued to establish a link on public works programme and the EIA process

- In 1998, Environmental Impact Assessment Ordinance, Cap 499 came into effects. It provides a statutory framework for:
 - assessing the impacts of designated development projects on the environment
 - the implementation of recommended mitigation measures through a permit system

Approaches in Wetland Compensation

- Guidelines for Wetland Compensation are given in the Technical Memorandum on EIA Process (TM).
 - As a last resort after avoidance and minimization measures have been applied to the maximum extent practicable
 - Preference of on-site to off-site compensation
 - Preference of well in advance to after the completion of work
 - The compensation should be on a "like for like" basis (same species, size or ecological functions)

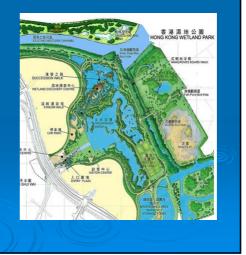
TECHNICAL MEMORANDUM on Environmental Impact Assessment Process

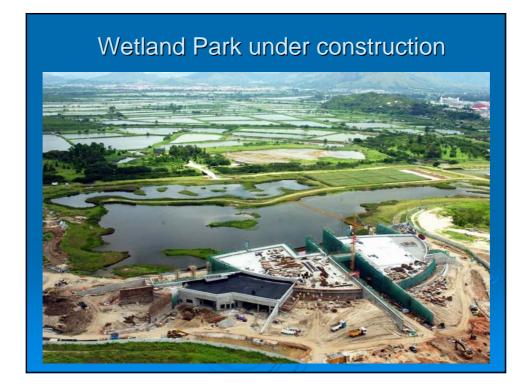
Approaches in Wetland Compensation

- Wetland Compensation can be achieved through:
 - Wetland Creation to create wetland at in an area, which was not a wetland in the recent past
 - Wetland Enhancement to enhance ecological function of existing wetland by modifying management practice and/or physical setting
 - Wetland Restoration to restore previously degraded wetland
- There is no preference and pre-defined compensation ratio for any of these approaches in TM, but the wetland restoration is encouraged in the WBA in the TPB guidelines.

Examples of Wetland Compensation

- New Town Development at Tin Shui Wai
- Impact:
 - Loss of freshwater habitats for Tin Shui Wai New Town Development
- Compensation:
 - To construct a 61 ha Wetland Park for nature conservation, education and eco-tourism

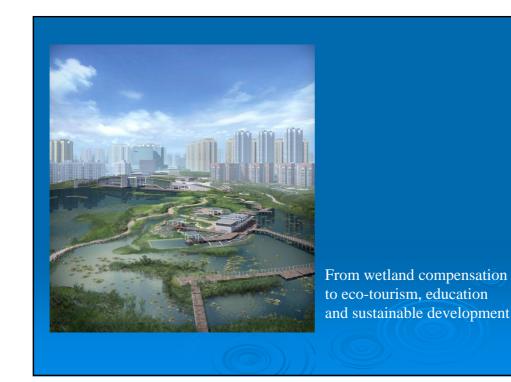






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Examples of Wetland Compensation

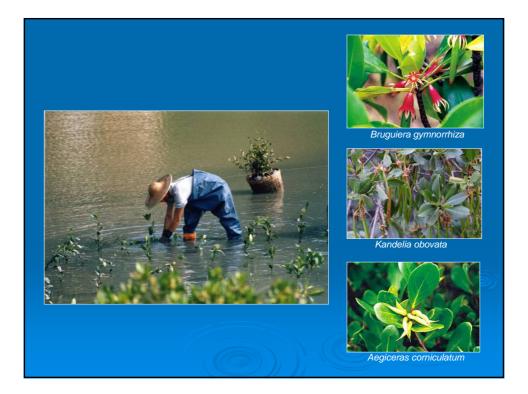
 Construction of Chek Lap Kok new airport and North Lantau Highway at Lantau

- Impact:
 - Loss of 7 ha of Mangrove
- Compensation:
 - To create11 ha of mangrove habitat at Tai O disused Saltpan











Examples of Wetland Compensation

- KCRC Lok Ma Chau to Sheung Shui Spur Line
- Impact:
 - loss of 9 ha of Fishponds
- Compensation:
 - To enhance and manage 27
 ha of fishponds

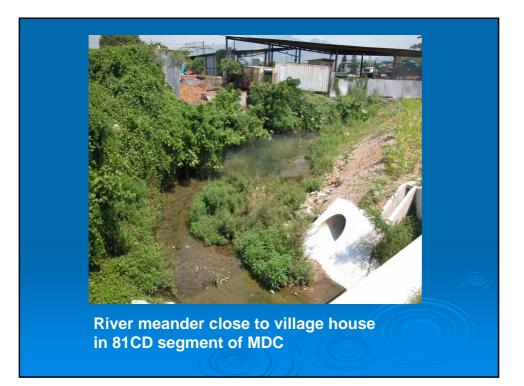




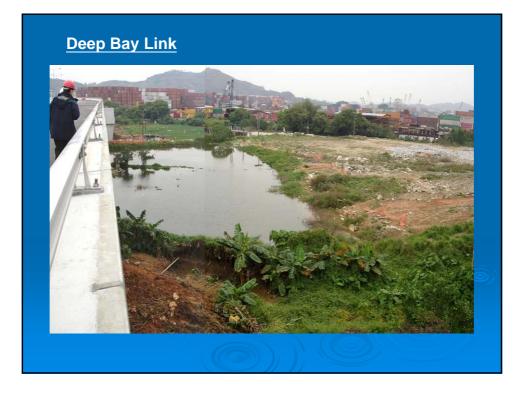












Constraints and Opportunities

- × Constraint On-site compensation areas may often:
 - subject to continual <u>disturbance</u> impact in operational phase; or
 - incompatible with the adjacent land uses

✓ Opportunity

If on-site measures are proved to be impracticable in many cases, the feasibility of <u>off-site compensation</u> should be explored in future EIA studies.

Constraints and Opportunities

× Constraint – The timing

- well in advance of works rather than after the completion of works
- strict preference of on-site requirement → using the temporary works area within the project boundary for compensation.
- in advance compensation is usually impracticable.

✓ Opportunity –

If <u>off-site</u> compensation is proved feasible, wetland compensation could be provided <u>in advance</u> without being affected by the project construction.

Constraints and Opportunities

× Constraint – The form of compensation

- on a <u>"like for like"</u> basis (i.e. same species, same habitat of the same size or same kind of ecological functions)
- considered on a project basis → resulted in <u>piecemeal</u> and <u>fragmented</u> habitats located <u>here and there</u>

✓ Opportunity –

If mitigation measures of different projects could be <u>consolidated</u> and slightly relaxed from the "like for like" requirement, the accumulated wetland loss can be compensated by creating a large piece of diverse wetland habitats at an <u>off-site location</u>.

Way Forward

Off-site Compensation

- Clear ecological benefits
- Better management
- In line with the existing EIA legislation and guidelines

Issues to be resolved

- Land availability for off-site compensation
- Conflicts in land use for various purposes
- Interface and co-oridination of different development projects arising at different timing
- Clearer guidelines on off-site compensation and consensus amongst stakeholders

