REPORT

CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Operational Phase): Quarterly Monitoring Report

Feb 2013



CLP Power Hong Kong Limited
3/F Centenary Building
1 To Wah Road, Fordan
Kowloon, Hong Kong

CLP Power Hong Kong Ltd

Renewable Energy Supply on Town Island (Operational Phase): Quarterly Monitoring Report

Feb 2013

For and on behalf Approved by: Signed:	Fof CLP Power Hong Kong Limited Wu Ming Fai
Position:	Engineer I
Certified by: Signed:	Ma Chun Fai
Position: Date:	Senior Operations Manager 15 Mar 2013

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1 ENVIRONMENTAL SITE AUDIT

1.1 BACKGROUND

The operation works of Renewable Energy Supply on Town Island (the Project) commenced in Dec 2012.

To fulfil environmental audit requirements stated in Section 5.7.2 of the approved Project Profile (PP) submitted for direct application of an Environmental Permit under EIA Ordinance (EIAO) (PP-413/2010), monthly environmental site audits should be undertaken to monitor the impact (via collisions) of the wind turbines on birds, with a particular focus on species of conservation interest) and migratory birds.

During the first year of operational phase, monitoring for bird collision is recommended on monthly basis. The findings are reported in Quarterly Report. A Final Monitoring Report will be prepared after this one-year monitoring period. The details of monitoring are summarized in Section 5.5.2 of PP.

This is the Quarterly Monitoring Report presenting the monitoring results and observations of the site audit conducted on 11 Dec 2012, 22 Jan 2013 and 6 Feb 2013.

1.2 BIRD MONITORING FINDINGS AND OBERVATIONS

The monthly bird monitoring site audit was conducted on 11 Dec 2012, 22 Jan 2013 and 6 Feb 2013. The works undertaken during the site audit included operation and maintenance at both Site 1 and Site 2.

No abnormal findings and no bird injuries or death are observed.

Bird monitoring checklist is given in Annex A. Site inspection location maps are given in Annex B. Photos of the site audit are given in Annex C.

Annex A

Bird Monitoring Checklist



Renewable Energy Supply on Town Island Environmental Site Audit

Time: 10:		ember 2012 13:00	2		
Inspected By CLP Represe		lson Chan			
Weather					
Condition	□ Sunny	☐ Fine	☑ Overcast	□ Drizzle	□ Rain □ Storm □ Fine
Temperature	16°C		Humidity	☑ High	□ Moderate □ Rain
Wind	□ Calm	☐ Light	☑ Breeze	□ Strong	

		Birds		
Bird Group Name	Common Name	Species Name	Bird injury or death observed (Y/N)	Remarks
Rinds of Draw	Black Kite	Milvus migran	N	
Birds of Prey	White-bellied	Haliaeetus		
	Sea Eagle	leucogaster	N	
Terns	Black-naped Tern	Sterna sumatrana	N	
Passerines	House Swift	Apus affinis	N	
	Common Magpie	Pica pica	N	
	Black Drongo	Dicrurus macrocercus	N	
	Barn Swallow	Hirundo rustica	N	
	Brown Shrike	Lanius Cristatus	N	
	Long-tailed Shrike	Lanius Schanch	N	
	Richard's Pipit	Anthus richardi	N	
	Great Tit	Parus major	N	
	Eurasian Tree Sparrow	Passer montanus	N	
	Light-vented Bulbul	Pycnonotus sinensis	N	
	Red-whiskered Bulbul	Pycnonotus jocosus	N	
	Sooty-headed Bulbul	Pycnonotus aurigaster	N	
	Scrested Myna	Acidotheres cristatellus	N	
	Black-collared Starling	Sturnus nigricollis	N	

Common Tailorbird	Orthotomus sutorius	N	
Hwamei	Garrulax canorus		
	Garrulax	11	
	perspicillatus	N	
	Copsychus saularis	N	
		N	
White-throated Kingfisher	smyrnensis	N	
Spotted Dove	Streptopelia chinensis		
Greater Coucal	Centropus sinensis		
Lesser Coucal	Centropus bengalensis	N	
	Tailorbird Hwamei Masked Laughingthrush Oriental Magpie Robin Japanese White-eye White-throated Kingfisher Spotted Dove Greater Coucal	Tailorbird sutorius Hwamei Garrulax canorus Masked Garrulax Laughingthrush perspicillatus Oriental Magpie Robin Copsychus saularis Japanese Zosterops White-eye japonicus White-throated Kingfisher Streptopelia Spotted Dove Centropus sinensis Centropus	Tailorbird sutorius N Hwamei Garrulax canorus N Masked Garrulax Laughingthrush perspicillatus N Oriental Magpie Robin Copsychus saularis N Japanese Zosterops White-eye japonicus N White-throated Halcyon Kingfisher smyrnensis N Streptopelia Spotted Dove chinensis N Greater Coucal Centropus sinensis N

Signatures

CLP Representative

(Wilson Chan)



Renewable Energy Supply on Town Island Environmental Site Audit

Time: 10:		ary 2013 12:00				
Inspected By CLP Represe		lson Chan				
Weather Condition Temperature Wind	□ Sunny □ 19 °C □ Calm	☑ Fine ☑ Light	□ Overcast Humidity □ Breeze	□ Drizzle ☑ High □ Strong	□ Rain □	Storm □ Fine □ Rain

Bird Group Name	Common Name	Species Name	Bird injury or death observed (Y/N)	Remarks
Birds of Prey	Black Kite	Milvus migran	N	
Dirus of Fley	White-bellied	Haliaeetus		
Aug	Sea Eagle	leucogaster	N	1
Terns	Black-naped Tern	0.		
Passerines		Sterna sumatrana	N	
1 4000111165	House Swift	Apus affinis	N	
	Common Magpie	Pica pica	N	
	D	Dicrurus		
	Black Drongo	macrocercus	N	
	Barn Swallow	Hirundo rustica	N	
	Brown Shrike	Lanius Cristatus	N	
	Long-tailed Shrike	Lanius Schanch	N	
	Richard's Pipit	Anthus richardi	N	
	Great Tit	Parus major	N	
	Eurasian Tree Sparrow	Passer montanus	N	
	Light-vented Bulbul	Pycnonotus sinensis	N	
	Red-whiskered Bulbul	Pycnonotus jocosus	N	
	Sooty-headed Bulbul	Pycnonotus aurigaster	N	
	Scrested Myna	Acidotheres cristatellus	N	
	Black-collared Starling	Sturnus nigricollis	N	

	Common Tailorbird	Orthotomus sutorius	N	
	Hwamei Masked	Garrulax canorus	N	
	Laughingthrush	Garrulax perspicillatus	N	
	Oriental Magpie Robin	Copsychus saularis	N	
	Japanese White-eye	Zosterops japonicus	N	
	White-throated Kingfisher	Halcyon smyrnensis	N	
Others	Spotted Dove	Streptopelia chinensis	N	
	Greater Coucal	Centropus sinensis	N	
	Lesser Coucal	Centropus bengalensis	N	

Notes/Issues Recorded On Site	
Nil	

Signatures

CLP Representative

(Wilson Chan)



Renewable Energy Supply on Town Island Environmental Site Audit

	son Chan				
☑ Sunny	☐ Fine	☐ Overcast	☐ Drizzle	□ Rain □ Storm □ Fir	ne
21 °C		Humidity	□ High	☑ Moderate ☐ Rain	
□ Calm	☑ Light	□ Breeze	□ Strong		
	to	Matative: Wilson Chan ✓ Sunny ☐ Fine ———————————————————————————————————	to 13:00 ntative: Wilson Chan Sunny	to 13:00 Intative: Wilson Chan ✓ Sunny ☐ Fine ☐ Overcast ☐ Drizzle ——————————————————————————————————	to 13:00 ntative: Wilson Chan Sunny Fine Overcast Drizzle Rain Storm Fine Humidity High Moderate Rain

Bird Group Name	Common Name	Species Name	Bird injury or death observed (Y/N)	Remarks
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	Masked	Garrulax		
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	Japanese White-eye	Zosterops japonicus	N	
Others	White-throated Kingfisher	Halcyon smyrnensis	N	
	Spotted Dove	Streptopelia chinensis	N	
	Greater Coucal	Centropus sinensis	N	
	Lesser Coucal	Centropus bengalensis	N	

Notes/Issues Recorded On Site	
Nil	

Signatures

CLP Representative

(Wilson Chan)

Annex B

Site Inspection Location Maps

Site 1: Mount Carmel RE Station

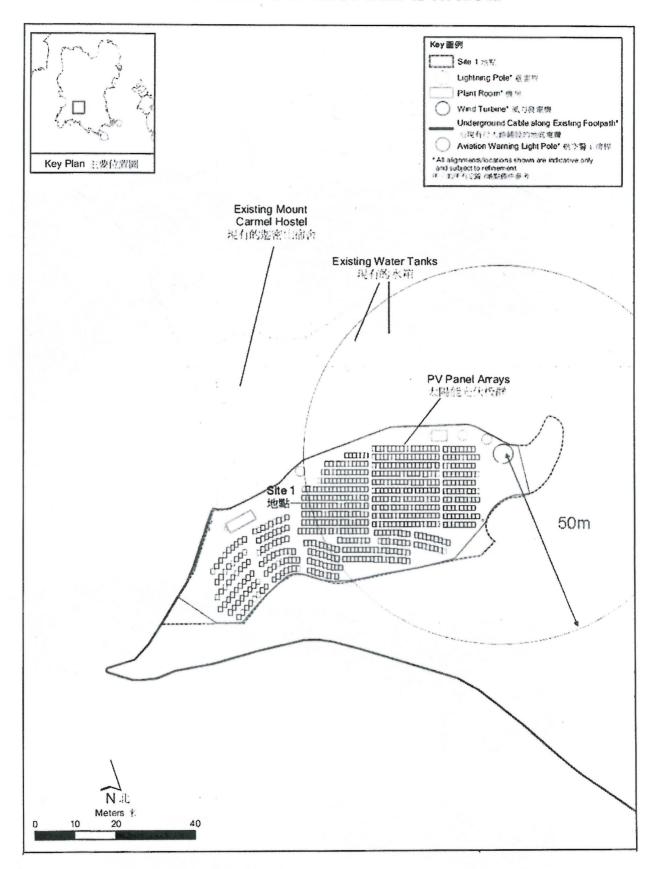


Photo Record on 22 January

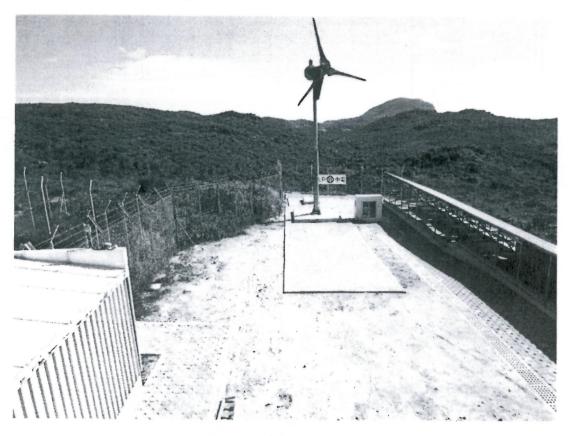


Photo Record on 6 Feburay 2013

