

Annex 3 – Sample of the Reply Slip

1. Please select the type of your submission and provide the relevant information.

- ☒ It is a new case study for current retrofitting initiatives.

Please provide the name of the current retrofitting initiatives, or you can refer to Annex 1 for the relevant numbering, i.e. A1, A2, A3, etc. You can relate your case study with more than one retrofitting initiatives.

Name of the current retrofitting initiatives:	A6, A9, B5, B8, C7, C14
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- ☐ It is a new retrofitting initiative, and supplements with a relevant case study.

Please select **ONE** relevant chapter for the new retrofitting initiative.

- | | |
|--|--|
| <input type="checkbox"/> HVAC – Water-side | <input type="checkbox"/> Carpark |
| <input type="checkbox"/> HVAC – Air-side | <input type="checkbox"/> Heating |
| <input type="checkbox"/> Electrical System – Lighting | <input type="checkbox"/> Building Envelope |
| <input type="checkbox"/> Electrical System – Electricity Distribution System | <input type="checkbox"/> Kitchen |
| <input type="checkbox"/> Electrical System – Lift & Escalator | <input type="checkbox"/> Architectural |
| <input type="checkbox"/> Smart Control Systems | <input type="checkbox"/> Others |
| <input type="checkbox"/> Server Room/ Data Centre | |

Please provide the name, brief description, suggested consideration of the new retrofitting initiatives.

Name of the new retrofitting initiatives:	
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<p>Brief description (around 100 words):</p>	
<p>Suggested consideration:</p>	

2. Please provide the details of the case study.

Information of Building	
Building owner:	ABC Limited
Building name:	ABC Building
Photo of the building: (At least 300 dpi)	*Please attach the photo as Annex
Description of the building:	<ul style="list-style-type: none"> • Grade A Commercial complex with 23 floors of offices , 4 floors shopping centre, 3 floors basement carpark • Fully air-conditioned with air-cooled central chilled water system, deferential pressure by-pass, constant speed pumps • Fan-coil unit for offices and shopping centre with pre-treated fresh air • Generator set lift • T-8 light tube

Information of Retrofitting Project	
Retrofitted initiative(s):	<p>HVAC Chilled water system: Converted the chilled water system to variable flow system. All pumps fitted with variable speed drives and necessary controls to control the flowrate of the chilled water by differential temperature of chilled water supply and return header and override by pressure differential of the critical circuit point</p> <p>HVAC primary Fresh air system: Converted the primary fresh air system to demand control. Fresh air flow rate on every floor is controlled by resetting the set point of a constant air value flow according to a carbon dioxide sensor. Speed of fresh air fan is controlled by a pressure sensor at the supply air duct</p> <p>Lift: modernise the existing Generator set lift to VVVF lift control</p> <p>Lighting: replace all common area lighting to LED lighting panel</p>
Schematic diagram/ photo indicating the changes/ implementation (optional): (At least 300 dpi)	* Please attach the diagram/photo as Annex
Observed benefits other than energy saving:	<ul style="list-style-type: none"> • Reduced maintenance resources in plant operations and future retro-commissioning and balancing • More information for plant monitoring and reporting • Smoother operation, shorter waiting time for passengers • Resolved the problem of sourcing lift spare parts • Better light quality
General observations of the retrofitting project:	<ul style="list-style-type: none"> • HVAC system retro-fit have not affected the tenants • Standard retro-fitting initiatives with proven technologies and straight forward • Lift retro-fit requires shut down of lift services one by one. Some disturbance to tenants but manageable • Lightings for offices are replaced during weekends • Lightings for shopping centres are replaced area by area during non-business hours. Slightly affected on aesthetics of the mall during the retro-fit period. Posters advising customers of the enhancing project was posted. No complaints received.

	<ul style="list-style-type: none"> Overall a well justified project with good outcomes with tangible and non-tangible benefits
Name of consultant and contractors (optional):	

Cost	
Total cost (in HKD):	HKD 6.8 million
Cost breakdown (optional):	Chilled water system HKD 300,000 Primary air system HKD 120,000 Lift modernization HKD 4,000,000 Lighting HKD 800,000
Saving	
Total savings/year (in HKD):	HKD 580,000
Savings/year breakdown (optional):	Chilled water system: HKD 60,000 Payback: 5 yr Primary air system: HKD 40,000 Payback: 3 yr Lift modernization: HKD 80,000 Payback: 50 yr Lighting: HKD 400,000 Payback: 2 yr
Payback:	11.7 yr
Subsidy/ Funding	
The project is supported by (if any):	Green Building Fund

Awards	
Award(s) received by the project (if any):	Green Building Award Innovation and Technology Award

3. Please provide the contact information for onward liaison. The contact information will not be disclosed in the guidebook.

Contact person:	
Organisation:	
Position:	
Contact no.:	
Email:	