Survey Questionnaire

Dear Sir/Madam,

I am a final year undergraduate from the Department of Building at the National University of Singapore majoring in Project and Facilities Management. I am undertaking a research for my dissertation which aims to investigate the initial capital cost differences between green and conventional building projects. Your expertise in the building industry is extremely valuable in assisting me to learn more about the upfront capital costs of green building projects. Please be assured that your responses will be kept confidential and will only be used for academic purposes.

Please kindly forward the questionnaire back to <u>a0084950@u.nus.edu</u> upon completion. Also, please do not hesitate to contact me if you have any queries regarding the survey questions. I sincerely thank you for your valuable time!

PLEASE MARK 'X' IN THE CHECKBOX TO INDICATE YOUR CHOICE(S) AND FILL IN THE INFORMATION WHERE APPROPRIATE. Note: This survey is based on your <u>perceptions</u> of the upfront costs of green buildings. <u>No</u> exact cost figures are required.

SECTION A: COMPANY'S PROFILE

1. Name of Company: _____

2.	Com	pany's main sc	ope of ser	vice:				
		Architecture			Consultancy	[Develo	oper
		Project Man	agement		Main Contrac	tor [Sub Co	ontractor
		Quantity Sur	veying		Others, please	e specify:	 _	
	If app	olicable, Comp	any's BCA	A Regi	stration Grade:			
		A1		A2		B 1		B2
		C1		C2		C3		

SECTION B: RESPONDENT'S PROFILE

3.	Respo	ndent's designation/job	o title:			
		Architect		Consultant		Project Manager
		Quantity Surveyor		Main Contractor		Sub Contractor
		Others, please specify	y:	-		
4.	Respo	ndent's years of experi	iences ir	n the construction indu	stry:	
		Less than 1 year		1 to 2 years		2 to 3 years
		3 to 4 years		More than 4 years, pl	ease spe	ecify:
5.	Respo	ndent's years of experi	iences ir	n <mark>green</mark> building const	ruction:	
		Less than 1 year		1 to 2 years		2 to 3 years
		3 to 4 years		More than 4 years, pl	ease spe	ecify:

6. Please indicate the *number of projects* involved in the respective boxes given below:

Project Type	Project Nature	Project Size	No. of Traditional Building Projects Involved	No. of Green Building Projects Involved
Commercial		Less than \$5mil		
Building	New Construction	\$5mil to less than \$50mil		
Projects		\$50mil and above		
		Less than \$5mil		
Offices	New Construction	\$5mil to less than \$50mil		
		\$50mil and above		
Residential		Less than \$5mil		
Building	New Construction	\$5mil to less than \$50mil		
Projects		\$50mil and above		

SECTION C: PERSPECTIVES ON INITIAL CAPITAL COST OF GREEN BUILDING PROJECTS

7. Please indicate the closest estimated cost premiums for green buildings in general:

- \bigcirc 0% to less than 5%
- 5% to less than 10%
- \Box 10% to less than 15%
- $\boxed{15\% \text{ to less than } 20\%}$
- 20% and above; please specify: _____

SECTION D: INITIAL CAPITAL COST PREMIUMS FOR GREEN BUILDING PROJECTS

8. This section aims to study the initial capital cost differences between traditional building projects and green building projects. Please fill in the *number* of green building projects in the respective boxes given below, with consideration of the project type, project nature, project size and green cost premiums.

Project Type	Project Nature	Project Size	Initial Cost Premiums for Green Building Projects	No. of Green Building Projects
	Less \$5		0% to less than 5% 5% to less than 10% 10% to less than 15% 15% to less than 20%	
Commercial Building Projects	New Construction	\$5mil to less than \$50mil	20% and above 0% to less than 5% 5% to less than 10% 10% to less than 15% 15% to less than 20%	
		\$50mil and above	20% and above 0% to less than 5% 5% to less than 10% 10% to less than 15% 15% to less than 20% 20% and above	

8i. Commercial Green Building Projects:

8ii. Green Offices:

Project Type	Project Nature	Project Size	Initial Cost Premiums for Green Building Projects	No. of Green Building Projects
Officer	New	Less than \$5mil	0% to less than 5% 5% to less than 10% 10% to less than 15% 15% to less than 20% 20% and above	
Onices	Construction	\$5mil to less than \$50mil	0% to less than 5% 5% to less than 10% 10% to less than 15% 15% to less than 20% 20% and above	

	0% to less than 5%	
\$50mil and	5% to less than 10%	
\$50mm and	10% to less than 15%	
above	15% to less than 20%	
	20% and above	

8iii. Residential Green Building Projects:

Project Type	Project Nature	Project Size	Initial Cost Premiums for Green Building Projects	No. of Green Building Projects
		Less than \$5mil	0% to less than 5% 5% to less than 10% 10% to less than 15% 15% to less than 20%	
Residential Building Projects	New Construction	\$5mil to less than \$50mil	20% and above0% to less than 5%5% to less than 10%10% to less than 15%15% to less than 20%20% and above	
		\$50mil and above	0% to less than 5% 5% to less than 10% 10% to less than 15% 15% to less than 20% 20% and above	

9. Please *rate* the reasons for the initial *cost differences* between the green and conventional building projects by *marking* 'x' in the given boxes. (Note: 1 = "Strongly Disagree"; 2 = "Disagree"; 3 = "Neutral"; 4 = "Agree"; 5 = "Strongly Agree")

Please also *rank* the 7 reasons according to its level of relevance in the *first column*. (Note: Rank 1 = "Most Relevant"; Rank 7 = "Least Relevant")

Rank	No	Reasons for Initial Cost Differences between Green and Traditional Projects	1 (Strongly Disagree)	2	3	4	5 (Strongly Agree)
	1	Higher consultant and designer fees					
	2	Lack of required green expertise and information					
	3	Difficulty in getting green services from contractors and subcontractors					
	4	Difficulty in getting green resources e.g. materials, technologies etc.					
	5	High cost of green technologies and materials					
	6	Lack of Government incentives/subsidies for green building projects					
	7	Higher research and development costs for green building products, systems, technologies etc.					

SECTION E: COST PERFORMANCE OF TRADITIONAL AND GREEN BUILDING PROJECTS

10. This section aims to study the cost performance of traditional and green building projects. Please fill in the *number* of traditional and green building projects in the respective boxes given below, with consideration of the project cost performance. (Note: a negative percentage will mean an under-budget whereas a positive percentage will mean an over-budget. E.g. -10% means 10% below budget, +10% means 10% above budget)

Project Type	Project Nature	Cost Performance	No. of Traditional Building Projects	No. of Green Building Projects
Commercial		-10% to less than -5%		
Building	New	-5% to less than 0%		
Projects	Construction	0% to less than 5%		
ITOJECIS		5% to less than 10%		
		-10% to less than -5%		
Offices	New Construction	-5% to less than 0%		
Offices		0% to less than 5%		
		5% to less than 10%		
Desidential		-10% to less than -5%		
Duilding	New	-5% to less than 0%		
Dullullig	Construction	0% to less than 5%		
rojects		5% to less than 10%		

SECTION F: SOLUTIONS TO REDUCE INITIAL CAPITAL COST OF GREEN BUILDINGS

11. This sections aims to study the effectiveness of the solutions to reduce initial capital cost of green buildings. Please *rate* the level of effectiveness of the following cost solutions by *marking* 'x' in the given boxes. (Note: 1 = "Least Efficient"; 2 = "Somewhat Efficient"; 3 = "Neutral"; 4 = "Efficient"; 5 = "Most Efficient")

Please also *rank* the level of effectiveness of the 8 cost solutions for green building projects in the *first column*. (Note: Rank 1 = "Most Efficient"; Rank 8 = "Least Efficient")

			Green Building Projects					
Rank	No	Initial Capital Cost Solutions	1 (Least efficient)	2	3	4	5 (Most efficient)	
	1	Government to provide incentives/subsidies for green building projects						
	2	Low interest loans						
	3	Financial institutions to introduce lending schemes customised for green building projects						
	4	Government to provide subsidies for research and development of green building products, systems and technologies						
	5	Tax reliefs for developers and contractors for use of green building products, systems and technologies						
	6	Availability of skilled and experienced project team and contractors						
	7	Government to provide green building educational courses for key building players so as to flatten the learning curve of green construction						
	8	Government to provide						

subsidies for green			
building professional and			
specialist courses			

12. Other proposed solutions: _____

Thank you for your valuable time!