where IMPACT OF RISK x LIKELIHOOD OF RISK OCCURING = DEGREE OF RISK

IMPACT							LIKELIHOOD				DEGE	REE OF	DICK	
Rating	Reputation (Rep)	Programme/Budget (P/B)	Safety/Health/Environmental (SHE)	Commercial			LIKELIIIOOD				DEGI	GHEE OF NISK		
	 Threat to business survival and company credibility 	 Budget overrun which impacts on client's business 	-Multiple fatality			5	Almost Certain (>70%)		5	5	10	15	20	25
5	-Catastrophic impact on share price, city loses faith in plc company	-Programme overrun resulting in penalties above termination threshold	-Major environmental incident involving threat to public health or safety	> £1m	X	4	Probable (50-70%)	=	rating)	4	8	12	16	20
		-Client/Business stakeholder interests severely damaged	-Criminal liability			3	Possible (30-50%)		ğ 3	3	6	9	12	15
	-Threat to future trading and core Client/Business objectives	-Significant and non-recoverable impacts in budget spend	-Worker/Public fatality			2	Unlikely (10-30%)		2 ubact	2	4	6	8	10
4		 Programme overrun resulting in penalties and additional client audits 	-Environmental incident leading to breach	£100k - £1m		1	Negligible (<10%)		1	1	2	3	4	5
			-Criminal liability and compensation costs					-		1	2	3	4	5
	-Client dissatisfaction and damage to stakeholder relationships	-Minor and recoverable budgetary fluctuations	-Major injury to worker or third party								Like	ihood	(L/H)	
3	-Negative effect on share price	-Minor and recoverable programme overrun that impacts critical path	-Operation likely to cause damage, complaint or nuisance	£10k - £100k	İ						ree of isk	Ri	sk Lev	el
2	-Client and stakeholder relationships strained	-Minor budgetary fluctuations within allowance given by client	-Minor injury to worker or third party	£1k - £10k							to 4		Trivial	
	-Some negative reporting in city on plc company	-Minor delays not impacting on critical path	-Environmental impact requiring management response to recover	ZIN ZION							to 8 o 12		olerabli ubstanti	
1	-Negligible impact	-Negligible impact	-Negligible impact	<£1,000						13	to 25	Una	accepta	ıble

PROJECT RISK ASSESSMENT

Client: Cheshire East Highways

Contract: Street Lighting Energy Reduction

Contract:																	
Provider:	Cheshire East Highways (CEH)			22002	nont h	ofore-M	itiget	n				ecas	mont	ofter M	itiaeth	on-	
			,	Imp	nent be	efore Mi	itigatio	n ax (x			Assessment after Mitigation		on to \widehat{x}				
No.	Risk	Consequence	Rep	P/B	SHE	Com	ikeliho	Degree isk (ma	Risk Mitigation Measure	Owner	Rep	P/B	SHE	Com	ikeliho	Jegree ilsk (ma	Comments (Include details of costings included to cover risk mitigation measure)
1	If the Public react negatively to large	Then Public pressure and negative press	5	4	2	2	4	20	Therefore ensure cabinet are informed of		2	2	1	2	2	4	
	scale roll out of part night lighting	leads to a political decision to change approach with impact that £2m cannot be used in timescales to reduce energy							the proposals and that they support the approach. Develop communication strategy building on the trials. Inform and								
									consult with wards/members over the proposals. Incorporate feedback. Promote								
									enhancement work in town centres						1		
2	If Energy Supplier re-structures tariff as a result of lower energy consumption at off-	Then Energy and Carbon Savings are	3	4	1	2	4	16	Therefore model the changes in overall load and timings. Enter into early		2	2	1	2	3	6	If the consumption reduces by more than the 15% tolerance allowed there may be a charge by Npower, as any purchased volumes would need to be sold back to the wholesale market. We cannot estimate what this charge would be as it is
	peak times.	admired but cost carnigo are not.							discussions with Energy Supplier to ascertain likely scenarios and agree a new								completely dependent on the portfolio and market price at the time it is sold. If Npower are notified of likely reductions this charge may be avoided. However, the notification would need to fit into the timescales for agreeing our portfolio volumes.
									framework.								We agree the portfolio volumes in November/December each year for the following financial year. The portfolio shape is then extracted, which gives us a profile of consumption for all our consolidated volumes (volumes which fit into a flat profile
																	of baseload or peak) we then have to trade the residual volumes (volumes which don't fit into a flat profile) on the wholesale market. It is difficult to predict how a reduction in street lighting may affect the portfolio shape, but believe it
																	would reduce the amount of baselead volumes and increase the peak volumes (which is typically more expensive to buy). By reducing volumes between 00:00 and 05:00 which is the cheapest Use of System Charges, this means that Npower will under-recover the charges, as the profile/costs are based on the previous year's consumption, this means that Npower
																	may charge you a penalty, or include any under recovery in the following years charges.
3	If Energy Suppliers seek to maintain present Income Stream.	Then Cost Savings resulting from reduced energy consumption are not	3	4	1	2	4	16	Therefore ensure Energy Supplier has minimal opportunity to impose penalties by		2	2	1	2	3	6	
		achieved.							ensuring that:- Inventory is accurate, PECU array is accurate, Part-Night photo cells are proven to perform accurately and								
									that there is a testing regime in place as they are installed and operated and that								
									Capacitors are tested and replaced to provide acceptable power factor.								
4	If a traffic accident or crime causes the	Then bad press, scheme abandoned,	4	2	4	2	2	8	Therefore Risk Assess all proposals to		2	1	2	1	2	4	
	proposals to be criticised leading to a claim.	claim against Council, reduced energy savings		_			_		demonstrate safety is not compromised and crime is not adversely affected.				_				
									Develop a clear strategy and work within the agreed framework.								
									Ensure site surveys of all proposals to tailor the scheme. Consider if Safety Audits required.						1		
									Consider if Safety Audits required. Review white lining / hazard signing prior to removing lighting.								
									· · · · · · · · · · · · · · · · · · ·								
5	If the up front development and design	Then Spend profile will not be met and	2	4	1	3	3	12	Therefore develop robust design and		1	2	1	2	2	4	
	works delay commencement of works on site	loss of funds for 2012/13							implementation plan. Work in packages (wards) to enable design to continue as works are ongoing.						1		
									design to continue as works are origonity.								
															1		
6	If future works to improve the asset	Criticised for not completing as part of	4	3	2	2	3	12	Therefore ensure that short term strategy		2	2	2	2	1	2	
	condition resulting in re work.	project							(2012/13) is compatible with medium and longer term strategy to address asset condition.								
									condition.								
7	If opportunities are missed to combine	Repeat visits and repeated costs	3	1	1	2	3	9	Therefore ensure Implementation Plan is		1	1	1	1	1	1	
	Routine Maintenance activities with the Energy Reduction programme								modelled around the Routine Maintenance Cycles for the Borough								
8	If opportunity is missed to introduce	Then Cost savings and quality	3	1	1	2	3	9	Therefore ensure Implementation Plan is		1	1	1	1	1	1	
	lighting improvements	improvements not maximised							modelled around the Routine Maintenance Cycles for the Borough								
9	If opportunities are missed to optimise	Then ongoing Cost saving opportunities	3	1	1	2	3	9	Therefore Revise bulk lamp change cycles		1	4	-	1	1	1	
	routine maintenance budgets in conjunction with this Plan	are not maximised	Ĭ						to reflect longer lamp life achieved through part-night operation.			·		ľ			
10	If Dimming is expected to be part of the	Then recognise that Per-unit cost of	1	3	1	3	4	12	Therefore early modelling of options,		1	1	1	2	2	4	
	Energy Reduction strategy	dimming equipment is relatively high and payback period is relatively long							refine strategy and only implement where other aspects have precedence (e.g. T-								
									Centres/ high traffic routes)								
11	If existing 15ft conc cols with 35w SOX	Then possibility of this equipment	1	1	2	4	5	20	Therefore identify numbers involved and		1	1	1	2	2	4	
	TE lanterns are not dealt with	disintegrating causing injury and/or damage							identify further funding for long-term Replacement Plan								
12	If existing luminaries fitted miniature or	Then identification is necessary, column-	1	1	1	2	5	10	Therefore this may require full survey		1	1	1	1	3	3	If info is not available, site visit and confirmation HAS to be carried out. Alternatively, Drip-feed Order equal quantities of
	NEMA socket units	by-column, for ordering equipment.							unless this data is available in SBS Confirm.								both types, keep both types on-stock in Maintenance vehicles, install as appropriate at each column.
13	If the Implementation Plan meets with	Then ensure Plan aligns with a logical,	1	3	1	4	5	20	Therefore explain Implementation Plan		1	1	1	1	1	1	
	resistance/influence	economical rationale that can be defended.							within Report. Roll-out to be in conjunction with planned cyclic activities to maximise								
									efficiencies.								
14	If we do not Implement an Energy	Then CEH will fail to deliver on it's	5	2	1	5	1	5	Therefore ensure that a positive message		1	1	1	1	1	1	
1	Reduction Strategy	contribution towards the overall Carbon Reduction requirements applicable to the		1 .					and can-do approach is maintained. Ensure that CEH receive full buy-in from		,	Ť	•	ļ .	'		
		Borough							Elected Members						1		
15	If we prioritise Traffic Route Zones	Potential to affect the roll out of strategy	3	1	1	2	2	6	Establish cost profiles to manage in		1	1	1	1	2	2	Reprofile of savings. Include as many Residential Zones as possible in year 1 to deliver saving.
		in residential area due to budget constraint							budget to achieve targets				1	1]		,
16	If we encounter spurious data in the inventory relating to duplications and	Potential issues that affect accuracy of energy payment	2	3	1	2	5	15	Therefore RJ to be made aware of details and implement parallel review/amend	_	1	2	1	2	4	8	Corrections must be done as and when anomalies are found.
	omissions.								activity								
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