	A	B	C	D	I	K	N	O	P
1									
2		Pacific Gas and Electric Company®				Legend			
3						Enterable/Modifiable			
4						Overwritten			
5						Not Updatable			
6	**Application Development Project Complexity and Sizing Worksheet**					Default Value			
7									
8		**ITWR # (if applicable):**	**tbd**						
9		**Proposal Description:**	**Gas Trading Systems Replacement Project**						
10		**IT Business Partner:**	**Gavin Fong**						
11		**Date Checklist Completed:**	**6/15/2009**						
12									
13	A response must be selected or entered for ALL criteria! The responses provided impact the Total Score for the proposed project, which helps determine the Preliminary Project Cost.								
14	**#**	**CRITERIA**	**RESPONSE**		**ASSUMPTIONS**	**SCORE**			
15	1	What is the expected duration of the project (in weeks)?	**156**		3 year	**6**			
16	2	What is the expected size of the team during the majority of the project?	**10**		(You Must Enter An Assumption)	**3**			
17	3	How many 3rd party vendor firms will provide services for this project?	**1-2**		(You Must Enter An Assumption)	**4**			
18	4	If the technology is known, has it been successfully implemented before at PG&E?	**No**		unknown	**9**			
19	5	How well are the Requirements for this proposal known by the Business (have the Requirements been documented)?	**Medium**			**6**			
20	6	Is there a pre-existing PG&E support group to maintain/support the application?	**Yes**		Yes, AS supports current systems	**2**			
21	7	What is the level of dependency on other projects (e.g. resources, deliverables, etc)?	**Low**			**1**			
22	8	Will the system exchange or provide data to any entities outside of PG&E (suppliers, customers, regulatory agencies, etc)?	**Yes**			**6**			
23	9	What is the level of criticality of the system to the users and PG&E customers?	**Business Important**			**9**			
24	10	How many internal PG&E users will be impacted by this project?	**1-100**		approx 50 employees	**3**			
25	11	What is the anticipated amount of formal training that will be required for PG&E users?	**Medium**		(You Must Enter An Assumption)	**6**			
26	12	How many PG&E Lines of Business (LOBs) will be impacted by the project?	**4 or More**		(You Must Enter An Assumption)	**9**			
27					**TOTAL SCORE:**	**64**			

Project Complexity and Sizing

Cell: B15
Comment: The expected duration of the project, between 1 and 192 weeks

Cell: B16
Comment: The average number of total IT resources (Employees and Contractors) working on the project at any given time

Cell: B17
Comment: This indicates the number of 3rd-party vendor firms, NOT individual contributors and is intended to reflect potential additional project management effort to manage external vendors

Cell: B18
Comment: Has the technology to be implemented during the project been previously implemented at PG&E? How familiar are the project resources with the technology?

Cell: C18
Comment: Yes = The technology has been successfully implemented before at PG&E. Resources are very familiar with the technology.

No = The technology has not been attempted or implemented successfully previously. Resources have little or no familiarity with the technology.

Cell: B19
Comment: Does the Business fully understand their needs in completing the project? Have their needs been agreed to and documented?

Cell: C19
Comment: Low = The Business has no knowledge of the Requirements for the proposal; no Requirements have been discussed or documented.

Medium = The Business has minimal knowledge of the Requirements for the proposal; some of the Requirements have been discussed and documented.

High = The Business has a good understanding of the Requirements for the proposal; many of the Requirements have been discussed and documented.

Cell: B20
Comment: Can the proposed project/application be maintained and supported by an existing PG&E support group (Help Desk, Operations Group, System Administrators, etc)?

Cell: C20
Comment: Yes = The project/application can be maintained and supported by an existing PG&E support group

No = The project/application cannot be maintained and supported by an existing PG&E support group

Cell: B21
Comment: Are any of the proposed project's resources, deliverables, processes, or technology dependent on any other project or initiative?

Cell: C21
Comment: Low = The proposed project has little or no dependency on other projects or initiatives

Medium = The proposed project has some dependency on other projects or initiatives

High = The proposed project is highly dependent on other projects or initiatives

Cell: B22
Comment: Is data being passed through the PG&E firewall? May impact project risk and complexity.

Cell: C22
Comment: No = No data will be passed through the PG&E firewall

Yes = Data will be passed through the PG&E firewall

Cell: B23
Comment: A measure of the criticality of the system to users and PG&E customers

Cell: C23
Comment: Business Critical: requires the highest possible availability; outage/failure recovery time is minutes or hours (e.g., SCADA systems)

Business Important: requires high availability; outage/failure recovery time is less than 24 hours

Business Standard: default category, most systems will fit this category; does not require high availability; outage/failure recovery time is less than 2 days

Business Historical; does not require high availability; outage/failure recovery time is 2-5 days (e.g., storage systems)

Cell: B24
Comment: Measures the degree of change/impact to the organization. Higher numbers imply greater need for change management, training, and number of new/modified business processes.

Cell: B25

Comment: A measure of the total effort required to formally train all users, considering that multiple users may be trained concurrently (e.g., classroom)

Cell: C25
Comment: Low = <7 Hours of Deliverable Content
Medium = 8-14 Hours of Deliverable Content
High = >14 Hours of Deliverable Content

Cell: B26
Comment: The PG&E Lines of Business are:

Energy Delivery
Engineering & Operations
Customer Care
Generation
Energy Procurement
Finance
HR
Risk & Audit
Shared Services

Pacific Gas and Electric Company®

Legend
Enterable/Modifiable
Overwritten
Not Updatable
Default Value

Application Development Preliminary Project Costing Checklist

ITWR # (if applicable):	**tbd**	
Proposal Description:	**Gas Trading Systems Replacement Project**	
IT Business Partner:	**Gavin Fong**	
Date Checklist Completed:	**6/15/2009**	
		Weight
PG&E ISTS Labor Blended Daily Rate per Resource	**$1,007.19**	**70%**
External ISTS Labor Blended Daily Rate per Resource	**$1,478.96**	**30%**
COMBINED ISTS BLENDED DAILY RATE PER RESOURCE	$1,148.72	
		Weight
PG&E Business Labor Blended Daily Rate per Resource	**$957.00**	**75%**
External Business Labor Blended Daily Rate per Resource	**$1,916.00**	**25%**
COMBINED BUSINESS BLENDED DAILY RATE PER RESOURCE	$1,196.75	

APPLICATION DEVELOPMENT LABOR

			PRELIMINARY LABOR ESTIMATE (DAYS)		PRELIMINARY COST ESTIMATE	
PRIMARY COST CRITERIA	**COMMENTS / ASSUMPTIONS**		**LOW**	**HIGH**	**LOW**	**HIGH**
ISTS APPLICATION DEVELOPMENT						
ISTS Application Development Labor Days (Project Management through Service Introduction/Deployment), including Middleware, Integration, Configuration, etc.	**(You Must Enter An Assumption)**		**5,850**	**9,750**	**$6,720,018**	**$11,200,030**
		Default Calculated Labor Days:	5,850	9,750	$6,720,018	$11,200,030
PG&E BUSINESS	**% of App Dev Labor**					
PG&E Business Labor	**20%**	**(Default = 20% of App Dev Labor)**	**1,170**	**1,950**	**$1,400,198**	**$2,333,663**
TECHNICAL ARCHITECTURE	**% of App Dev Labor**					
Technical Architecture Labor Days (Analyze/Design/Build/Test) for Development, Execution, and Operations environments necessary to support the Application.	**10%**	**(Default based on Number of Users Impacted)**	**585**	**975**	**$672,002**	**$1,120,003**
USER TRAINING & PERFORMANCE SUPPORT	**% of App Dev Labor**					
User Training and Performance Support Labor Days (Analyze/Design/Build/Test) for the effort to create Training Material and Communications Plan to support the Application rollout.	**20%**	**(Default based on Anticipated Amount of Formal User Training)**	**1,170**	**1,950**	**$1,344,004**	**$2,240,006**
		LABOR DAYS SUBTOTAL:	**8,775**	**14,625**	**$10,136,221**	**$16,893,701**
		Project Complexity and Size Factor:	**2,633**	**4,388**	**$3,040,866**	**$5,068,110**
		TOTAL LABOR DAYS:	**11,408**	**19,013**	**$13,177,087**	**$21,961,812**

Application Development Preliminary Project Costing Checklist

Default Value

ITWR # (if applicable):	**tbd**
Proposal Description:	**Gas Trading Systems Replacement Project**
IT Business Partner:	**Gavin Fong**
Date Checklist Completed:	**6/15/2009**

HARDWARE LABOR, MATERIALS, AND OTHER COSTS

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY COST ESTIMATE LOW	PRELIMINARY COST ESTIMATE HIGH
INFRASTRUCTURE			
Hardware, Network, etc Costs (includes Labor)	**(Default based on User Impact)**	**$50,000**	**$80,000**
System/Data Availability and Recovery	**(Default Based on System Criticality and Data Protection/Retention Requirements)**	**$37,500**	**$60,000**
USER TRAINING			
User Training Materials Costs	**(Default Based on Anticipated Amount of Formal User Training)**	**$14,875**	**$27,625**
MISCELLANEOUS COSTS			
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	**3rd party software license fees**	**$2,000,000**	**$2,000,000**
	COST SUBTOTAL:	**$2,102,375**	**$2,167,625**
	Project Complexity and Size Factor:	**$630,713**	**$650,288**
	TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:	**$2,733,088**	**$2,817,913**

	LOW	HIGH
TOTAL PRELIMINARY PROJECT COST:	**$15,910,000**	**$24,780,000**