


Project Complexity and Sizing

	A	B	C	D	I	K	N	O	P
1									
2		Pacific Gas and Electric Company							
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6		Application Development Project Complexity and Sizing Worksheet							
7									
8									
9		Date Checklist Completed:	3/1/2009						
10		ITWR # (If applicable):							
11		Proposal Description:	Planning, Analytics, and Data Integrity						
12		Client Portfolio Lead:	Brent Altman						
13		Anticipated Start Date of Project (MM/DD/YYYY):	1/1/2010						
14		Anticipated End Date of Project (MM/DD/YYYY):	12/31/2013						
15									
16		Please provide a response for ALL criteria! The responses provided impact the Total Score for the proposed project, which helps determine the Preliminary Project Cost.							
17	#	CRITERIA	RESPONSE	ASSUMPTIONS	SCORE				
18	1	Expected duration of the project (in weeks):	209	(Calculated Based on Anticipated Start/End Dates, above)	6				
19	2	Anticipated ISTS Application Development Labor Days			FALSE				
20	3	How many 3rd party vendor firms will provide services for this project?	0	(Please Enter An Assumption)	2				
21	4	If the technology is known, has it been successfully implemented before at PG&E?	Yes	(Please Enter An Assumption)	6				
22	5	How well are the Requirements for this proposal known by the Business (have the Requirements been documented)?	Medium	(Please Enter An Assumption)	6				
23	6	Is there a pre-existing PG&E support group to maintain/support the application?	Yes	(Please Enter An Assumption)	2				
24	7	What is the level of dependency on other projects (e.g. resources, deliverables, etc)?	Medium	(Please Enter An Assumption)	2				
25	8	Will the system exchange or provide data to any entities outside of PG&E (suppliers, customers, regulatory agencies, etc)?	No	(Please Enter An Assumption)	4				
26	9	What is the level of criticality of the system to the users and PG&E customers?	Business important	(Please Enter An Assumption)	9				
27	10	How many internal PG&E users will be impacted by this project?	101-500	(Please Enter An Assumption)	6				
28	11	What is the anticipated amount of formal training that will be required for PG&E users?	Medium	(Please Enter An Assumption)	6				
29	12	How many PG&E Lines of Business (LOBs) will be impacted by the project?	4 or More	(Please Enter An Assumption)	9				
30					TOTAL SCORE:	58			

Project Complexity and Sizing

Cell: B18

Comment: Duration is calculated based on the above start and end project dates.

Cell: B19

Comment: High level estimate of application development labor days (project management through service introduction/deployment) including middleware, integration, configuration, etc.

Cell: B20

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: B21

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: C21

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: B22

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

Cell: C22

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: B23

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: C23

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: B24

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

Cell: C24

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: B25

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

Cell: C25

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

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

Cell: B26

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

Cell: C26

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: B27

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.

Project Complexity and Sizing

Cell: B28

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: C28

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

Cell: B29

Comment: The PG&E Lines of Business are:

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



Application Development Preliminary Project Costing Checklist

Legend	
	Enterable/Modifiable
	Overwritten
	Not Updatable
	Default Value

Date Checklist Completed:	3/1/2009
ITWR # (if applicable):	0
Proposal Description:	Planning, Analytics, and Data Integrity
Client Portfolio Lead:	Brent Altman
Anticipated Start Date of Project (MM/DD/YYYY):	1/1/2010
Anticipated End Date of Project (MM/DD/YYYY):	12/31/2013

		Weight
PG&E ISTS Labor Blended Daily Rate per Resource	\$941.16	70%
External ISTS Labor Blended Daily Rate per Resource	\$1,481.52	30%
COMBINED ISTS BLENDED DAILY RATE PER RESOURCE	\$1,103.27	
		Weight
PG&E Business Labor Blended Daily Rate per Resource	\$995.28	75%
External Business Labor Blended Daily Rate per Resource	\$1,992.69	25%
COMBINED BUSINESS BLENDED DAILY RATE PER RESOURCE	\$1,244.63	

APPLICATION DEVELOPMENT LABOR

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY EFFORT (DAYS)			PRELIMINARY COST		
		LOW	MID	HIGH	LOW	MID	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)	400	700	1,000	\$441,307	\$772,288	\$1,103,268
	Default Calculated Labor Days:	0	0	0	\$441,307	\$772,288	\$1,103,268
PG&E BUSINESS							
PG&E Business Labor	20% of App Dev Labor (Default = 20% of App Dev Labor)	80	140	200	\$99,571	\$174,249	\$248,927
TECHNICAL ARCHITECTURE							
Technical Architecture Labor Days (Analyze/Design/Build/Test) for Development, Execution, and Operations environments necessary to support the Application.	20% of App Dev Labor (Default based on Number of Users Impacted)	80	140	200	\$88,261	\$154,458	\$220,654
USER TRAINING & PERFORMANCE SUPPORT							
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% of App Dev Labor (Default based on Anticipated Amount of Formal User Training)	80	140	200	\$88,261	\$154,458	\$220,654
LABOR DAYS SUBTOTAL:		640	1,120	1,600	\$717,401	\$1,255,451	\$1,793,502
Project Complexity and Size Factor:		128	224	320	\$143,480	\$251,090	\$358,700
TOTAL LABOR DAYS:		768	1,344	1,920	\$860,881	\$1,506,541	\$2,152,202

Application Development Preliminary Project Costing Checklist

Default Value

Date Checklist Completed:	3/1/2009
ITWR # (if applicable):	0
Proposal Description:	Planning, Analytics, and Data Integrity
Client Portfolio Lead:	Brent Altman

HARDWARE LABOR, MATERIALS, AND OTHER COSTS

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY COST		
		LOW	MID	HIGH
INFRASTRUCTURE				
Hardware, Network, etc Costs (includes Labor)	(Default based on User Impact)	\$600,000	\$1,000,000	\$1,400,000
System/Data Availability and Recovery	(Default Based on System Criticality and Data Protection/Retention Requirements)	\$450,000	\$750,000	\$1,050,000
USER TRAINING				
User Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	\$14,875	\$21,250	\$27,625
MISCELLANEOUS COSTS				
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	(You Must Enter An Assumption)	\$0	\$0	\$0
COST SUBTOTAL:		\$1,064,875	\$1,771,250	\$2,477,625
Project Complexity and Size Factor:		\$212,975	\$354,250	\$495,525
TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:		\$1,277,850	\$2,125,500	\$2,973,150

TOTAL PRELIMINARY PROJECT COST:	LOW	MID	HIGH
	\$2,139,000	\$3,632,000	\$5,125,000

