


Project Complexity and Sizing

	A	B	C	D	I	K	N	O	P
1									
2		Pacific Gas and Electric Company							
3									
4									
5									
6		Application Development Project Complexity and Sizing Worksheet							
7									
8									
9		Date Checklist Completed:	3/1/2009						
10		ITWR # (If applicable):							
11		Proposal Description:	Talent Management/Human Performance						
12		Client Portfolio Lead:	Brent Altman						
13		Anticipated Start Date of Project (MM/DD/YYYY):	1/1/2011						
14		Anticipated End Date of Project (MM/DD/YYYY):	6/30/2013						
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):	130	(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)?	Low	(Please Enter An Assumption)	1				
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 Standard	(Please Enter An Assumption)	6				
27	10	How many internal PG&E users will be impacted by this project?	1-100	(Please Enter An Assumption)	3				
28	11	What is the anticipated amount of formal training that will be required for PG&E users?	Low	(Please Enter An Assumption)	3				
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:	48			

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



Legend	
	Editable/Modifiable
	Overwritten
	Not Updatable
	Default Value

Application Development Preliminary Project Costing Checklist

Date Checklist Completed:	3/1/2009
ITWR # (if applicable):	0
Proposal Description:	Talent Management/Human Performance
Client Portfolio Lead:	Brent Altman
Anticipated Start Date of Project (MM/DD/YYYY):	1/1/2011
Anticipated End Date of Project (MM/DD/YYYY):	6/30/2013

		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)	1,000	1,700	2,500	\$1,103,268	\$1,875,556	\$2,758,170
	Default Calculated Labor Days:	0	0	0	\$1,103,268	\$1,875,556	\$2,758,170
PG&E BUSINESS							
PG&E Business Labor	% of App Dev Labor: 20% (Default = 20% of App Dev Labor)	200	340	500	\$248,927	\$423,175	\$622,316
TECHNICAL ARCHITECTURE							
Technical Architecture Labor Days (Analyze/Design/Build/Test) for Development, Execution, and Operations environments necessary to support the Application.	% of App Dev Labor: 10% (Default based on Number of Users Impacted)	100	170	250	\$110,327	\$187,556	\$275,817
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.	% of App Dev Labor: 10% (Default based on Anticipated Amount of Formal User Training)	100	170	250	\$110,327	\$187,556	\$275,817
LABOR DAYS SUBTOTAL:		1,400	2,380	3,500	\$1,572,848	\$2,673,842	\$3,932,120
Project Complexity and Size Factor:		140	238	350	\$157,285	\$267,384	\$393,212
TOTAL LABOR DAYS:		1,540	2,618	3,850	\$1,730,133	\$2,941,226	\$4,325,332

Application Development Preliminary Project Costing Checklist

Default Value

Date Checklist Completed:	3/1/2009
ITWR # (if applicable):	0
Proposal Description:	Talent Management/Human Performance
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)	\$50,000	\$65,000	\$80,000
System/Data Availability and Recovery	(Default Based on System Criticality and Data Protection/Retention Requirements)	\$25,000	\$32,500	\$40,000
USER TRAINING				
User Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	\$8,500	\$14,875	\$21,250
MISCELLANEOUS COSTS				
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	(You Must Enter An Assumption)	\$0	\$0	\$0
COST SUBTOTAL:		\$83,500	\$112,375	\$141,250
Project Complexity and Size Factor:		\$8,350	\$11,238	\$14,125
TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:		\$91,850	\$123,613	\$155,375

TOTAL PRELIMINARY PROJECT COST:	LOW	MID	HIGH
	\$1,822,000	\$3,065,000	\$4,481,000

Project Start Date	Project End Date	work effort in days	duration in days	PM %	PM Days	Plan thru Deploy Days
1/1/2011	6/30/2013	3,850	911	10%	385	3,465

Stage	Start Date	End Date	Typical Work Allocation Percentage by Stage	% of stage effort (do not change)	Override stage effort (override Col C)	Stage Work Days	% stage duration	Duration in days	Net Work Days
Project Mgmt	1/1/2011	6/30/2013				385			650
Plan	1/1/2011	3/14/2011	1-5%	8%	8%	277	8%	73	51
Analyze	3/14/2011	6/13/2011	5-10%	10%	10%	347	10%	91	66
Design	6/13/2011	12/13/2011	15-35%	20%	20%	693	20%	182	132
Build	12/13/2011	9/11/2012	25-60%	30%	30%	1040	30%	273	196
Test	9/11/2012	3/12/2013	10-25%	20%	20%	693	20%	182	131
Deploy	3/12/2013	6/30/2013	3-5%	12%	12%	416	12%	109	79
				100%	100%	3850	100%	911	

Roles	resource pools:	Workday Total
Percentage Total		3,850
		385
		277
		347
		693
		1,040
		693
		416

		FTEs															
Role	Resource Pool	Business Analyst	Project Manager	Application Designer	Configuration Manager	Programmer	Test Lead & Tester	Database Administrator/ Data Architect	Technical Architect	Technical Architect	Technical Architect	Technical Architect	Technical Operations Support Specialist	Integration Solution Architect & Designer	Human Performance Architect Training Administrator	Deployment Lead & Specialist Service Introduction Lead	Max FTEs (rounded to the nearest .5 fte)
various	various	2.5	0.5	1.0	-	1.5	2.5	0.5	1.0	0.5	0.5	0.5	0.5	-	1.5	3.0	0.5
		2.5	0.5	1.0	-	1.5	2.5	0.5	1.0	0.5	0.5	0.5	0.5	-	1.5	3.0	2.5
		1.0	-	0.5	-	-	-	-	-	0.5	0.5	0.5	-	-	1.5	-	1.5
		0.5	-	0.5	-	1.5	0.5	0.5	-	0.5	0.5	0.5	-	-	1.5	-	1.5
		-	-	0.5	-	0.5	2.5	-	-	0.5	0.5	0.5	-	-	1.5	-	2.5
		-	-	0.5	-	-	-	0.5	-	-	0.5	0.5	-	-	0.5	3.0	3.0