






Project Complexity and Sizing

	A	B	C	D	I	K	N	O	P
1									
2		<b>Pacific Gas and Electric Company</b>							
3						<b>Legend</b>			
4							Enterable/Modifiable		
5							Overwritten		
6							Not Updatable		
7							Default Value		
8									
9		Date Checklist Completed:	3/1/2009						
10		ITWR # (If applicable):							
11		Proposal Description:	Employee Self Service Capability						
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):	12/31/2012						
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	<b>#</b>	<b>CRITERIA</b>	<b>RESPONSE</b>	<b>ASSUMPTIONS</b>	<b>SCORE</b>				
18	1	Expected duration of the project (in weeks):	104	(Calculated Based on Anticipated Start/End Dates, above)	4				
19	2	Anticipated ISTS Application Development Labor Days			FALSE				
20	3	How many 3rd party vendor firms will provide services for this project?	1-2	(Please Enter An Assumption)	4				
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?	>500	(Please Enter An Assumption)	9				
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					<b>TOTAL SCORE:</b>	<b>57</b>			

## 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:	Employee Self Service Capability
Client Portfolio Lead:	Brent Altman
Anticipated Start Date of Project (MM/DD/YYYY):	1/1/2011
Anticipated End Date of Project (MM/DD/YYYY):	12/31/2012

	Weight
PG&E ISTS Labor Blended Daily Rate per Resource	\$941.16 70%
External ISTS Labor Blended Daily Rate per Resource	\$1,481.62 30%
<b>COMBINED ISTS BLENDED DAILY RATE PER RESOURCE</b>	<b>\$1,103.27</b>
	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%
<b>COMBINED BUSINESS BLENDED DAILY RATE PER RESOURCE</b>	<b>\$1,244.63</b>

APPLICATION DEVELOPMENT LABOR

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY EFFORT (DAYS)			PRELIMINARY COST		
		LOW	MID	HIGH	LOW	MID	HIGH
<b>ISTS APPLICATION DEVELOPMENT</b>							
ISTS Application Development Labor Days (Project Management through Service Introduction/Deployment), including Middleware, Integration, Configuration, etc.	(You Must Enter An Assumption)	1,000	1,500	2,000	\$1,103,268	\$1,654,902	\$2,206,536
	Default Calculated Labor Days:	0	0	0	\$1,103,268	\$1,654,902	\$2,206,536
<b>PG&amp;E BUSINESS</b>							
PG&E Business Labor	% of App Dev Labor: 20% (Default = 20% of App Dev Labor)	200	300	400	\$248,927	\$373,390	\$497,853
<b>TECHNICAL ARCHITECTURE</b>							
Technical Architecture Labor Days (Analyze/Design/Build/Test) for Development, Execution, and Operations environments necessary to support the Application.	% of App Dev Labor: 30% (Default based on Number of Users Impacted)	300	450	600	\$330,980	\$496,471	\$661,961
<b>USER TRAINING &amp; PERFORMANCE SUPPORT</b>							
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: 20% (Default based on Anticipated Amount of Formal User Training)	200	300	400	\$220,654	\$330,980	\$441,307
<b>LABOR DAYS SUBTOTAL:</b>		1,700	2,550	3,400	\$1,903,829	\$2,855,743	\$3,807,657
Project Complexity and Size Factor:		340	510	680	\$380,766	\$571,149	\$761,531
<b>TOTAL LABOR DAYS:</b>		<b>2,040</b>	<b>3,060</b>	<b>4,080</b>	<b>\$2,284,594</b>	<b>\$3,426,891</b>	<b>\$4,569,188</b>

**Application Development Preliminary Project Costing Checklist**

Default Value

Date Checklist Completed:	3/1/2009
ITWR # (if applicable):	0
Proposal Description:	Employee Self Service Capability
Client Portfolio Lead:	Brent Altman

**HARDWARE LABOR, MATERIALS, AND OTHER COSTS**

PRIMARY COST CRITERIA	COMMENTS / ASSUMPTIONS	PRELIMINARY COST		
		LOW	MID	HIGH
<b>INFRASTRUCTURE</b>				
Hardware, Network, etc Costs (includes Labor)	(Default based on User Impact)	\$200,000	\$450,000	\$700,000
System/Data Availability and Recovery	(Default Based on System Criticality and Data Protection/Retention Requirements)	\$100,000	\$225,000	\$350,000
<b>USER TRAINING</b>				
User Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	\$14,875	\$21,250	\$27,625
<b>MISCELLANEOUS COSTS</b>				
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	(You Must Enter An Assumption)	\$0	\$0	\$0
<b>COST SUBTOTAL:</b>		\$314,875	\$696,250	\$1,077,625
Project Complexity and Size Factor:		\$62,975	\$139,250	\$215,525
<b>TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:</b>		\$377,850	\$835,500	\$1,293,150

<b>TOTAL PRELIMINARY PROJECT COST:</b>	<b>LOW</b>	<b>MID</b>	<b>HIGH</b>
	<b>\$2,662,000</b>	<b>\$4,262,000</b>	<b>\$5,862,000</b>

Project Start Date	Project End Date	work effort in days	duration in days	PM %	PM Days	Plan thru Deploy
1/17/2011	12/31/2012	4,080	730	10%	408	3,672

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 Plan	1/1/2011	12/31/2012	1-5%	8%	8%	408	8%	58	521
Analyze	2/28/2011	5/12/2011	5-10%	10%	10%	294	10%	73	41
Design	5/12/2011	10/5/2011	15-35%	20%	20%	367	20%	146	105
Build	10/5/2011	5/11/2012	25-60%	30%	30%	734	30%	219	158
Test	5/11/2012	10/4/2012	10-25%	20%	20%	1102	20%	146	105
Deploy	10/4/2012	12/31/2012	3-5%	12%	12%	441	12%	88	63
				100%	100%	4080	100%	730	

resource pools:

<b>Roles</b>	<b>Workday Total</b>
Percentage Total	4,080
	294
	367
	734
	1,102
	734
	441
	4,080
	100.0%
	100.0%
	100.0%
	100.0%
	100.0%
	100.0%
	100.0%
	100.0%
	100.0%
	100.0%
	100.0%

		<b>FTEs</b>																	
		various	various	various	Env CoE	App Services	Software QA	DBA CoE	SP&A	Infrastru	various	Env CoE	Env CoE	various	Business	Deployment CoE	Max FTEs (rounded to the nearest .5 fte)		
Business Analyst	3.5	-	-	-	-	-	-	-	1.5	-	-	-	-	-	-	-	4.0	0.5	
Project Manager	0.5	0.5	-	-	-	-	-	-	1.5	-	-	-	-	-	-	-	1.0	3.5	
Application Designer	1.5	-	0.5	-	-	-	-	-	-	1.0	1.0	-	-	-	2.0	-	-	2.0	
Configuration Manager	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Programmer	2.0	-	-	-	-	-	-	-	-	1.0	1.0	-	-	-	-	-	-	-	
Test Lead & Tester	3.5	-	-	-	-	-	-	-	-	-	1.0	-	-	-	-	-	-	-	
Database Administrator/ Data Architect	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Technical Architect	1.5	-	-	-	-	-	-	-	-	1.0	1.0	-	-	-	-	-	-	-	
Technical Architect	1.0	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	-	-	-	
Technical Architect	1.0	-	-	-	-	-	-	-	-	0.5	1.0	-	-	-	-	-	-	2.0	
Technical Architect	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	
Technical Architect	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	
Technical Operations Support Specialist	0.5	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	-	-	-	
Integration Solution Architect & Designer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Human Performance Architect Training Administrator	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	-	-	3.5	
Deployment Lead & Specialist Service Introduction Lead	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	4.0	4.0	
Max FTEs (rounded to the nearest .5 fte)																			