


Project Complexity and Sizing

	A	B	C	D	I	K	N	O	P
1	 <b>Pacific Gas and Electric Company</b>								
2									
3									
4									
5									
6	<b>Application Development Project Complexity and Sizing Worksheet</b>								
7									
8									
9		Date Checklist Completed:	6/29/2009						
10		ITWR # (if applicable):							
11		Proposal Description:	Gas and Electric Mapping (Program 16)						
12		Client Portfolio Lead:							
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	#	CRITERIA	RESPONSE	ASSUMPTIONS	SCORE				
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	219	Significant IT participation for GIS effort	3				
20	3	How many 3rd party vendor firms will provide services for this project?	3 or More	ESRI, SAP, CEDSA etc	6				
21	4	If the technology is known, has it been successfully implemented before at PG&E?	Yes	Continuation of Automated Mapping/Facility Management (AM/FM) Program	6				
22	5	How well are the Requirements for this proposal known by the Business (have the Requirements been documented)?	Medium	Business Requirements known, but formal requirements have not yet been developed	6				
23	6	Is there a pre-existing PG&E support group to maintain/support the application?	Yes	Addition to current support teams	2				
24	7	What is the level of dependency on other projects (e.g. resources, deliverables, etc)?	High	Dependant on corporate systems, IT resource participation, third party vendors	3				
25	8	Will the system exchange or provide data to any entities outside of PG&E (suppliers, customers, regulatory agencies, etc)?	Yes	CEDSA/Outage data	6				
26	9	What is the level of criticality of the system to the users and PG&E customers?	Business Important	Presents PG&E asset information in a GIS format	8				
27	10	How many internal PG&E users will be impacted by this project?	>500	Estimating, mapping, construction, land workforce	5				
28	11	What is the anticipated amount of formal training that will be required for PG&E users?	High	New technology and changes to business process	3				
29	12	How many PG&E Lines of Business (LOBs) will be impacted by the project?	4 or More	Enterprise solution	9				
30									
31									
32	<b>Additional Notes &amp; Assumptions:</b>								
33									
34	Spatial database, landbase, data QC and raster facilities to achieve geometric information for all equipment types. Fully integrate new AM-FM system with SAP, CC&B and other Corporate Systems.								
35									



Application Development Preliminary Project Costing Checklist

Legend	
Enterable/Modifiable	
Overwritten	
Not Updatable	
Default Value	

Date Checklist Completed:	6/29/2009
ITWR # (if applicable):	0
Proposal Description:	Gas and Electric Mapping (Program 18)
Client Portfolio Lead:	0
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
External ISTS Labor Blended Daily Rate per Resource	\$1,481.52
COMBINED ISTS BLENDED DAILY RATE PER RESOURCE	\$1,103.27
PG&E Business Labor Blended Daily Rate per Resource	\$995.28
External Business Labor Blended Daily Rate per Resource	\$1,992.59
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
<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)	164	219	274	\$181,212	\$241,616	\$302,020
	Default Calculated Labor Days:	164	219	274	\$181,212	\$241,616	\$302,020
<b>PG&amp;E BUSINESS</b>							
PG&E Business Labor	% of App Dev Labor 20% (Default = 20% of App Dev Labor)	33	44	55	\$40,686	\$54,816	\$68,144
<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 50% (Default based on Number of Users Impacted)	82	110	137	\$90,406	\$120,808	\$151,010
<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 30% (Default based on Anticipated Amount of Formal User Training)	49	66	82	\$54,364	\$72,486	\$90,606
	<b>LABOR DAYS SUBTOTAL:</b>	329	439	548	\$367,067	\$489,423	\$611,779
	Project Complexity and Size Factor:	99	131	164	\$119,120	\$146,827	\$183,634
	<b>TOTAL LABOR DAYS:</b>	427	569	712	\$477,188	\$636,250	\$795,413

Application Development Preliminary Project Costing Checklist

Default Value

Date Checklist Completed:	6/28/2008
ITWR # (if applicable):	0
Proposal Description:	Gas and Electric Mapping (Program 1c)
Client Portfolio Lead:	0

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)	\$5,000,000	\$6,000,000	\$7,000,000
System/Data Availability and Recovery	(Default Based on System Criticality and Data Protection/Retention Requirements)	\$3,750,000	\$4,500,000	\$5,250,000
<b>USER TRAINING</b>				
User Training Materials Costs	(Default Based on Anticipated Amount of Formal User Training)	\$21,250	\$27,625	\$34,000
<b>MISCELLANEOUS COSTS</b>				
Miscellaneous/Additional Costs (Licensing, Overheads - Facilities Costs, Telephony, etc)	Vectorization, EI, ERP configuration efforts, vendor participation	\$23,600,000	\$30,250,000	\$36,900,000
	<b>COST SUBTOTAL:</b>	<b>\$32,371,250</b>	<b>\$40,777,625</b>	<b>\$49,184,000</b>
	Project Complexity and Size Factor:	\$9,711,375	\$12,233,285	\$14,785,200
	<b>TOTAL HARDWARE, MATERIALS, AND OTHER COSTS:</b>	<b>\$42,082,625</b>	<b>\$53,010,910</b>	<b>\$63,969,200</b>

TOTAL PRELIMINARY PROJECT COST:	<b>LOW</b>	<b>MID</b>	<b>HIGH</b>
	<b>\$42,560,000</b>	<b>\$53,647,000</b>	<b>\$64,735,000</b>

Project Start Date	1/7/2011	Project End Date	12/31/2012	work effort in days	712	duration in days	730	PM %	10%	PM Days	71	Plan thru Deploy	641
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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	12/31/2012				71		521	521
Plan	1/1/2011	2/28/2011	1-5%	8%	0%	51	8%	58	41
Analyze	2/28/2011	5/12/2011	5-10%	10%	10%	64	10%	73	54
Design	5/12/2011	10/9/2011	15-35%	20%	20%	128	20%	146	105
Build	10/9/2011	5/11/2012	25-60%	30%	30%	192	30%	218	158
Test	5/11/2012	10/4/2012	10-25%	20%	20%	128	20%	148	105
Deploy	10/4/2012	12/31/2012	3-5%	12%	12%	71	12%	83	63
				100%	100%	711.75	100%	730	521

Roles	resource pools	workdays	Percentage Total	Workday Total
Business Analyst	various	0.5	100.0%	71
Project Manager	various	0.5	100.0%	71
Application Designer	various	0.5	100.0%	71
Configuration Manager	Env COE	0.5	100.0%	71
Programmer	various App Services	0.5	100.0%	71
Test Lead & Tester	Saprun QA	0.5	100.0%	71
Database Administrator Data Architect	DBA COE	0.5	100.0%	71
Technical Architect	SP/IA	0.5	100.0%	71
Technical Architect	Infrast Structure	0.5	100.0%	71
Technical Architect	various App Servers	0.5	100.0%	71
Technical Architect	Env COE	0.5	100.0%	71
Technical Operations Support Specialist	Env COE	0.5	100.0%	71
Integration Solution Architect & Designer	various	0.5	100.0%	71
Human Performance Architect Training Administrator	Business	0.5	100.0%	71
Deployment Lead & Specialist Service Introduction Lead	Deployment COE	0.5	100.0%	71
Max FTE's (rounded to the nearest .5 FTE)		0.5	100.0%	71