



Goal 2: Commercial Quality Maintenance Committee Tuesday May 10, 2016 Meeting Notes

Call to Order

The meeting was called to order at 10:07 am PDT by Don Langston, Chair and President of Aire Rite AC and Refrigeration. Meetings are normally scheduled for 60 minutes.

Roll Call

Quorum for voting organizations = 7 of 13. 8 voting members, 12 non-voting members and 6 guest and staff attended this meeting. A total of 26 members, guests and staff attended.

P = present at meeting

A = absent voting member; if proxy has been assigned it will be noted below.

WHPA Goal 2: CQM Committee VOTING Members				Roll Call
ACCA (Air Conditioning Contractors of America)	Donald	Prather	Contractor Association	
Aire Rite AC & Refrigeration	Don	Langston	Contractor (Nonresidential)	P
ASHRAE (American Society of Heating, Refrigeration and Air Conditioning Engineers)	Richard	Danks	Engineering Society	
CLEAResult (formerly CSG)	Liz (Elizabeth)	DeSouza	Energy Efficiency Program Consultant	
CLEAResult	Paul	Kyllo	Energy Efficiency Program Consultant	P
FDSI (Field Diagnostic Services Inc.)	Dale	Rossi	Third Party Quality Assurance Providers	P
Honeywell ECC (Commercial Buildings, Trade Sales)	Mike	Lawing	Controls (Manufacturer or Distributor)	P
HSGS (Honeywell Smart Grid Solutions)	Shayne	Holderby	Energy Efficiency Program Consultant	
Marina Mechanical	Denny	Mann	Contractor (Nonresidential)	
CLEAResult (formerly PECE)	Paul	Kyllo	Energy Efficiency Program Consultant	
PG&E (Pacific Gas and Electric Company)	Jeanne	Duvall	California IOU	P
SCE (Southern California Edison)	Scott	Higa	California IOU	P
Tre' Laine Associates	Pepper	Hunziker	Energy Efficiency Program Consultant	P
Western Allied Corporation	Mike	Gallagher	Contractor (Nonresidential)	P
WHPA Goal 2: CQM Committee NON-VOTING Members				Roll Call
ASHRAE	Jim	Scarborough	Engineering Society	
BELIMO Aircontrols, Inc	Vanessa	Castro	Controls (Manufacturer or Distributor)	
BELIMO Aircontrols, Inc	Darryl	DeAngelis	Controls (Manufacturer or Distributor)	
Brownson Technical School	Bill	Brown	Educator, Trainer	P
BuildingMetrics Inc. (BMI)	Pete	Jacobs	Energy Efficiency Program Consultant	P
Clean Energy Horizons	Norm	Stone	Energy Efficiency Program Consultant	P
Climate Pro Mechanical	Ken	Robinson	Contractor (Nonresidential)	
CLEAResult (formerly PECE)	Michael	Blazey	Energy Efficiency Program Consultant	
CLEAResult (formerly PECE)	Steve	Clinton	Energy Efficiency Program Consultant	
CLEAResult (formerly PECE)	Phil	Jordan	Energy Efficiency Program Consultant	P
CLEAResult (formerly PECE)	Duane	Whitehurst	Energy Efficiency Program Consultant	
CLEAResult (formerly CSG)	Michael	Withers	Energy Efficiency Program Consultant	P
CLEAResult (formerly CSG)	Monica	Thilges	Energy Efficiency Program Consultant	
Honeywell ECC (Commercial Buildings, Product Management)	Adrienne	Thomle	Controls (Manufacturer or Distributor)	P
HVACRedu.net	Jeff	Taylor	Educator, Trainer	
KEMA/DNV-GL	Timothy	Devine	Energy Efficiency Program Consultant	



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MAS Service/ Db a JB Mechanical	John	Billheimer	Contractor (Nonresidential)	
Richard Danks Consulting	Richard	Danks	Other Stakeholder	
SDG&E (San Diego Gas and Electric Company)	Jeremy	Reefe	California IOU	P
SDG&E (San Diego Gas and Electric Company)	Robert	Nacke	California IOU	
SMW (Sheet Metal Workers) Local # 104	Randy	Young	Organized Labor	
Sacramento Municipal Utility District	Bruce	Baccei	Publically Owned Utility	P
SCE (Southern California Edison)	Steve	Clinton	California IOU	P
SCE (Southern California Edison)	Andres	Fergadiotti	California IOU	
Transformative Wave	Joe	Schmutzler	Controls (Manufacturer of Distributor)	P
Transformative Wave	Justin	Sipe	Controls (Manufacturer of Distributor)	
XCSpec	Jeff	Aalfs	Controls (Manufacturer of Distributor)	P
XCSpec	Janet	Peterson	Controls (Manufacturer of Distributor)	P
WHPA Goal 2: CQM Committee Invited Guests and Staff				Roll Call
AirTest Technologies	Mike	Schell	HVAC Manufacturer	P
American Commissioning Group	Craig	Hofferber	Third Party Quality Assurance Provider	
Bay Controls	Stephan	Parry	Controls (Manufacturer of Distributor)	
CalCERTS	Barbara	Hernesman	Certifying Body	
California Public Utilities Commission (CPUC) - Energy Division	Carmen	Best	California PUC	
California Public Utilities Commission (CPUC) - Energy Division	Lola	Odunlami	California PUC	
California Public Utilities Commission (CPUC) - Energy Division	Pete	Skala+	California PUC	
Galawish & Associates	Elsia	Galawish	Energy Efficiency Program Consultant	P
Honeywell ECC	Daniel	Jones	Controls (Manufacturer or Distributor)	
Honeywell Smart Grid Solutions (HSGS)	Eddy	Saleh+	Energy Efficiency Program Consultant	
Honeywell Smart Grid Solutions (HSGS)	Steve	Varnum	Energy Efficiency Program Consultant	
HVACRedu.net	Chris	Compton	Educator, Trainer	
ICF (ICF International)	Emily	Pearce	Energy Efficiency Program Consultant	
ICF (ICF International)	James	Jackson	Energy Efficiency Program Consultant	
Integrity Mechanical Systems Corp.	Susan	Siegert	Contractor (Nonresidential)	
LAUSD (Los Angeles Unified School District)	Steve	Granados	Government (Other than CPUC)	
Mark Cherniack Emeritus	Mark	Cherniack	Emeritus	
NCI (National Comfort Institute)	Rob	Falke	Educator / Trainer	
Pax-Sun Engineering, Inc.	Tom	Paxson	Other Stakeholder	P
PG&E (Pacific Gas and Electric Company)	Mary	Anderson	California IOU	
PG&E (Pacific Gas and Electric Company)	Robert	Davis	California IOU	
SCE (Southern California Edison)	Tara	Becnel	California IOU	
SCE (Southern California Edison)	Ryan	Cho+	California IOU	
SCE (Southern California Edison)	Brett	Close	California IOU	
Service All-Stars	Shaheda	Lodhi	Contractor (Nonresidential)	
UC Davis Energy Efficiency Center	Kristin	Heinemeier	Research Organization	



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STAFF				
BBI (Better Buildings Inc.)	Mark	Lowry	WHPA Executive Advisor/BBI COO	P
BNB Consulting/WHPA Staff, host, admin. support & scribe	Bob	Sundberg	WHPA Staff	P
Empowered LLC	Shea	Dibble	WHPA Co-Director	
CLEARresult	Paul	Kyllo+	WHPA Senior Advisor	P
Galawish & Associates	Elsia	Galawish	WHPA Staff	

** Organization is Not a Member of the WHPA; + Individual is NOT Registered with the WHPA;

(P) after last name = Member/Registrant is Pending Approval from the WHPA Executive Committee

AGENDA		
Topic	Discussion Leader	Desired Outcome
Welcome, roll call, review agenda, approve past meeting minutes and ACTION items	Don Langston and Bob Sundberg/staff	Record meeting attendees, finalize past meeting minutes, review status of meeting action items.
Welcome new members & guests, review new candidates	Don Langston	New members and invited guests welcomed. Decision made on suggested revisions to candidate options and the review process.
CQM Program Updates SCE/PG&E/SDG&E	Paul Kyllo, Shayne Holderby	Gain a current understanding of IOU CQM program status, progress, developments and issues.
CQM STD 180 User Guide Working Group	Dale Rossi	Members understand overall WG goal and plans
CQM Committee 2016 Goals	Don Langston	Discuss goal topics approved by Executive Committee for CQM C. & WG
IOU Business Plan Development –	Don Langston – IOU Representatives	Understand opportunity for WHPA member input into IOU program implementation plan development
CPUC ED White Paper on Baseline, response to AB802 – Admin. Law Judge public comments deadline May 17	Don Langston, Bob Sundberg	Inform members about White Paper and call for public comments and May 17 deadline
CPUC ED study - Code, Permit Compliance Rate study being conducted by DNV GL	Bob Sundberg	Inform members about code compliance rate study, impact on Baseline assumptions & IOU work papers
Committee name – quality	Don Langston	Member comments to support move toward name for committee changing to Commercial Maintenance Committee (CM C.) from Commercial Quality Maintenance Committee (CQM C.)
CQI Committee WG – impact and involvement of CQM C.	Bob Sundberg/Pete Jacobs	Data specification, performance evaluation protocol
Review meeting Action Items, set next meeting date/time, adjourn	Don Langston	Set next meeting date and confirm time.



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Approve Minutes of Previous Meeting

The April 12 meeting draft notes were distributed April 18. Approved meeting notes would be finalized and posted to the CQM Committee site.

Review Status of Action Items from Previous Meeting

March 2016 ACTION: Scott Higa committed to providing CQM program existing customer comments at a future meeting.

September 2015 ACTION: Pete Jacobs volunteered to investigate what the impacts might be for IOU claimed savings if the current CPUC/ED assumed 100% compliance with HVAC equipment installations was reduced to a much lower, possibly low double digit, % from CPUC permitting and compliance rates research. Pending. Postponed.

September 2015 ACTION: Scott Higa, SCE, would report progress on the testimonials and access to and analysis of customer energy data at the next monthly meeting. Postponed.

Welcome New Members and Guests; Consider Pending Members

- Steve Granados, facility manager for Los Angeles Unified School District, joined the WHPA and requested becoming a member of this committee. Not in attendance at the April or May meetings.

New Business - Don Langston

None.

IOU CQM Program Updates

SCE CQM program summary (Monica Tilges of CLEAResult is on work leave):

Paul Kylo, CLEAResult, provided the monthly update. He was pleased to report that Monica Tilges would be back from leave for the June meeting.

- They would see a jump up in new contractor numbers in the May report. There had been quite a few new applications which should make it through the process by the next report.
- A new energy savings work paper had gone into effect recently. They were expecting to see a larger amount of savings in kW and kWh being allowed and now reported.
- Everything looked to be on track to meet or exceed 2016 goals.

SCE CQM HVAC – April

	Apr-16	2016 YTD
New contractors	0	3
New customers - application received	5	30
New buildings – check cut	0	52
% of units w/ economizers	N/A (no new units)	56%
New tonnage – check cut	0	3,624
Units w/ CSA – check cut	14	511
Units w/ DCV/VFD – check cut	17	216
Units w/ ADEC w/ CSA – check cut*	2	194
kWh – check cut	173,687	2,492,783
kW – check cut	72.08252	966.4169

*does not count units with ADEC pre-existing at CSA or units where ADEC is installed at DCV



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PG&E CQM Program Summary (Jeanne Duvall of PG&E & Shayne Holderby of HSGS)

Shayne Holderby and Steve Varnum, HSGS, were unable to attend. Jeanne Duvall, PG&E, provided program comments. They were in the implementer Request for Proposal (RFP) process which was taking an extended length of time because they'd included management of the Portal (online participant database). So, she wouldn't be in a position to comment for several months yet.

Edgar Llamas, HSGS provided the following metrics for January, February and March. He also commented that the year had a slow start but that there were a significant number of new units in the pipeline. He anticipated incentive payments would be made for close to 400 units. The update next month should capture some of this renewed activity.

PG&E CQM EE Saving Summary - 5/16/16

Paid - January 2016

Payment Date (Multiple Items)
Project Status Paid

Row Labels	Count of Measure Code	Sum of kWh Savings	Sum of kW Savings	Sum of Therms Savings	Tonnage
C102	24	16,260.70	(7.15)	-	-
C106	10	6,411.54	-	-	-
HA33	10	15,381.30	-	-	-
HA80	2	1,178.00	1.07	(0.14)	-
SA13	4	330.39	0.67	-	-
TK01	11	-	-	-	64.00
Grand Total		39,561.93	(5.42)	(0.14)	64.00

Paid - February 2016

Payment Date (Multiple Items)
Project Status Paid

Row Labels	Count of Measure Code	Sum of kWh Savings	Sum of kW Savings	Sum of Therms Savings	Tonnage
C106	8	9,958.94	-	1,277.38	-
HA80	9	3,131.30	3.78	(0.11)	-
HV026	2	1,669.44	2.29	655.58	-
SA13	33	2,685.15	6.91	-	-
T314	7	3,996.45	-	330.74	-
TK01	15	-	-	-	58.50
Grand Total		21,441.28	12.98	2,263.59	58.50

Paid - March 2016

Payment Date (Multiple Items)
Project Status Paid

Row Labels	Count of Measure Code	Sum of kWh Savings	Sum of kW Savings	Sum of Therms Savings	Tonnage
C102	2	1,453.00	(0.70)	-	-
HA33	9	14,242.50	-	-	-
HA80	6	2,658.00	2.32	(0.29)	-
HV026	11	4,337.76	7.73	1,515.00	-
SA13	46	3,295.66	5.70	-	-
T314	20	44,812.54	-	5,494.79	-
TK01	102	-	-	-	630.00
Grand Total		70,799.46	15.05	7,009.50	630.00

Legend

C102	Test & Repair Economizer Linkage/Wire/Motor/Other
C106	Adjust thermostat
HA20	Adjust Economizer Control – HP
HA33	Adjust Economizer Control – DXGF
HA80	Test & Adjust Refrigerant Charge
HA83	Replace Economizer Controller – VAV
HA84	Replace Economizer Controller – HP
HA85	Replace Economizer Controller – DXGF
HA90	Adjust Economizer Control – VAV
HV026	PGE - Add ADEC and CO2 sensor to AC unit with Gas Heat
HV027	PGE - Add CO2 sensor to AC unit with Gas Heat with ADEC
HV028	PGE - Add ADEC and CO2 sensor to AC only unit
HV029	PGE - Add CO2 sensor to AC only unit with ADEC
HV030	PGE - Add ADEC and CO2 sensor to HP
HV031	PGE - Add CO2 sensor to HP with ADEC
SA07	HVAC ENHANCED VENT GAS HEAT
SA08	HVAC ENHANCED VENT + NEMA GAS HEAT
SA09	HVAC ENHANCED VENT + PMM GAS HEAT
SA10	HVAC ENHANCED VENT HEAT PUMP
SA11	HVAC ENHANCED VENT + NEMA HEAT PUMP
SA12	HVAC ENHANCED VENT + PMM HEAT PUMP
SA13	Replace solid v-belt with notched belt – DXGF
SA14	Replace solid v-belt with notched belt – HP
SA15	Replace solid v-belt with notched belt – Packaged VAV
T314	Install programmable thermostat
TK01	Customer-Contact Signed

SDG&E CQM Program Update

Jeremy Reefe, SDG&E, provided their program update. They'd had a hiatus during the first three months of the year. But, they had a contractor kick-off event about three weeks ago. A number of new contractors were joining the program and he was quite confident that they were on track to meet 2016 goals. That included HVAC Premium Silver and Gold level commercial tune-ups as well as their Premium Efficiency Cooling Program gear for higher efficiency HVAC equipment replacement.

CQM STD 180 User Guide Working Group Update – Dale Rossi

Dale Rossi, FDSI and WG Chair, said they'd held two planning meetings of the Standard 180 User Guide Working Group (WG). There were a lot of ideas shared about who the target audiences would be and what the user guide would contain but they were not able to really settle what their objectives would be.



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One area of agreement was that a substantial amount of previous effort had been devoted to Section 5 and Tables 22 and 12 specific maintenance task detailing. Maybe it was time to focus more on Sections 4, communications with the customer, measurement and data collection on program objectives to support a value proposition and program benefits and development and implementation of a maintenance program. They had not arrived at a clear cut set of working group goals and objectives.

Pepper Hunziker, Tre' Laine Associates, explained that her original understanding was that this user manual was to help operationalize Standard 180 on the technical side with a focus on Section 5. She'd gotten this understanding from talks with Bob Baker about two years before. She'd imagined this guide would focus on packaging up the previous work of the Standard 180 Maintenance Task Working Group.

Don Langston stated that her original understanding was a misunderstanding from what had been his intent in proposing this WG to the Executive Committee. This new user guide WG had never been proposed to focus on the technical side. It was intended to be about communicating with customers about what the maintenance plan would be.

Dale Rossi stated that one key area of discussion was who members thought communicated with the building owner or responsible party. One school of thought was that contractor managers or their professional sales staff principally communicated with the owner. The other school of thought was that techs on the job were the ones who primarily communicated with the end user. Dale had concluded that both levels of communication needed to be addressed in the user guide. He thought that communicating the value proposition during the sales cycle and then again with a process to determine whether maintenance plan goals were being achieved were part of what Don had intended. Also, there had been a lot of discussion about Section 4 and development of a maintenance program, what it should include and how it should be implemented. He then asked Don to provide his comments on what he thought the objectives for this WG should be.

He'd observed that it seemed that there were a lot of members who were looking at this maybe just from their perspective. They needed to be inclusive as they developed this user guide. But, it needed to include how to go about developing a maintenance plan with all the people who would need to be involved in that process. He'd just completed negotiating a large maintenance contract with a 122 location chain. The communications page of who would report to whom at what organizational level and at what dollar level of proposed work which was beyond the scope of the agreement had taken an entire page. He expected their user guide would provide examples of just those sorts of real world decisions and agreement processes.

Dale Rossi described that on their planning calls some thought that just having a written business plan was sufficient. It seemed to him that you needed to create some sort of metrics to measure status, check that status on some sort of schedule and report and discuss those findings with the responsible party and see whether you had been achieving the maintenance plan goals and objectives. There didn't seem to be any process like that being required in current Standard 180 based programs.

Pepper Hunziker offered that if their shift in emphasis was from Section 5, maintenance tasks, to Section 4, maintenance plan development and implementation, maybe the WG needed to have a different mix of members for whom that are of focus was in their scope of work. More program managers than technical training and program technical requirement implementers. Assess what existed, what was working well or not and go from there.

Dale Rossi responded that he was not aware that the type of people and the work which Pepper had described actually existed in the program implementation staffs. That there was program staff working with contractors and their customers to develop plans and means to evaluate and measure whether the goals were actually being achieved. No one had mentioned those sorts of implementer roles or activities in their planning sessions.



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Don Langston responded to Pepper's comments in that he'd asked program implementers some of those same questions about who was supporting maintenance plan development, goal setting and evaluation processes and had been told they were working on that. But, he wanted the WG to start with the way they were now implementing programs and develop this user guide to address how utility programs should be implementing the intent of the standard, not just it's list of equipment maintenance tasks and technical service which had been their focus to date. Sales and marketing standards based maintenance, setting goals and means to evaluate progress and the communications necessary for the stakeholders to implement Section 4 should be the focus for this WG. Pepper was spot on to examine the current programs, identify those gaps in really implementing this standard and develop a user guide outline to show what needed to be addressed.

Scott Higa, SCE, offered that he could provide the SCE contacts to get an the information needed. He agreed to provide that contact information to Dale Rossi, Don Langston and Bob Sundberg.

ACTION: Scott Higa, SCE, would provide Dale Rossi, Don Langston and Bob Sundberg with SCE staff contact information for the right parties who worked on development of their HVAC Optimization, CQM, program plans, plan goal development and methods of evaluation and reporting. It was implied that Jeremy Reefer, SDG&E and Jeanne Duvall, PG&E were being requested to provide similar staff contact information.

Dale Rossi asked that each of the IOU representatives provide relevant staff contact information but that those staff be directed to support efforts of the WG or with their current full time work they might elect not to participate.

ACTION: Dale Rossi requested each IOU program manager (Jeanne Duvall/PG&E, Scott Higa/SCE, Jeremy Reefer/SDG&E) provide relevant IOU staff contact information for those responsible for Standard 180 based maintenance program design, implementation and evaluation. Also, that those staff members be directed participate and support efforts of the Standard 180 User Manual Working Group by providing current program background information and input to the user guide development.

CPUC ED Baseline White Paper (AB802 response) & Admin. Law Judge (ALJ) notice for public comments Pete Jacobs, BuildingMetrics, CPUC consultant

Pete Jacobs asked Bob Sundberg, WHPA staff, whether the CPUC ED Baseline White Paper had been posted to the WHPA site under the Regulatory Policy (and Legislative) Activity location. Bob responded that it hadn't yet but that an Eblast email was intended to be sent out shortly to all WHPA registered members with links to the White Paper, the CPUC Administrative Law Judge's ruling for public comments due May 17 and a staff summary document. He would follow up with staff about having the actual documents posted under the Regulatory Policy Activity site.

Pete offered to present a high level overview of the White Paper as well as the whole series of questions CPUC staff had posed for public comment. He wondered whether a cross-committee meeting might be scheduled since AB802, the White Paper on Baseline and public comments and responses had an impact on several WHPA committees.

Jeremy Reefer, SDG&E, recommended that members carefully read the first section of the ALJ notice for public comments which included the long list of questions CPUC staff had compiled seeking comments and feedback. He thought the onus was on the WHPA/BBI staff to create a summary of the issues and of the accompanying documents. And, the presentation and discussion which Pete had offered to give this committee, in his opinion, also needed to be presented to all audiences like the CA EECC as well. The issue was larger than the WHPA alone. And, you really needed to read the entire document to understand their explanation of AB802 and where the questions were coming from. The issues were complex and he thought that WHPA staff might be able to re-allocate resources to put together a summary quickly.



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Mark Lowry, WHPA Executive Advisor, clarified that staff had been working on a summary document and an Eblast email would be going out to all members later that day.

Pete Jacobs thanked Mark and agreed with Jeremy that he'd probably better check with Lola Odunlami a presentation and discussion wouldn't be outside of protocol. for how the CPUC wanted to address holding discussion or presentation meetings with the WHPA or other groups.

Don Langston told Pete Jacobs that he was not trying to put Pete on the spot. He was just trying to raise a level of awareness and a better understanding of a CPUC document that only allowed a week or so for comments.

Jeremy Reeve explained that WHPA committees, as a group, also couldn't comment. But, individuals representing their organization could comment. WHPA/BBi staff was not allowed to comment or aggregate summary comments from committees or working groups for submission to the CPUC.

Pete Jacobs commented further on the CPUC ED study on permitting and code compliance conducted by DNV GL. Amber Watkins was the project lead for that study. She was providing a presentation on the study at the WHPA Compliance Committee meeting Thursday May 14 with study results to date. He suggested that interested folks might be able to attend that meeting. Pete summarized highlights at Don Langston's request.

- The published study was a mid-stream report about half way through their sample which provided some early feedback. It was looking like the permitting rates (residential installations only) were in the high 20% to low 30% range.
- The compliance with code rates with non-permitted jobs was looking to be pretty high. So, whether permits were pulled or not, those without permits were meeting many but not all of the Title 24 installation requirements.

IOU Business Plan Development Process – IOU Representatives

Jeanne Duvall, PG&E indicated that the California Energy Efficiency Coordinating Committee (CA EECC) was holding meetings along with subcommittees for each of the energy sectors (water, lighting, residential HVAC, commercial HVAC etc.) to inform stakeholders of IOU sector strategies and to gather stakeholder comments and feedback at the sector strategy level from many building types (office buildings, retail, small commercial etc.). The meeting discussions were at a very high level, not focused at the HVAC program planning or redesign level at this time. They might get closer to the program planning level mid-summer or so.

Jeremy Reeve added that he thought WHPA committee's work on their SMART Goals would be very valuable to help inform IOU program managers about factors they should take into account as they finalize those business plans in Q3. Program managers might have questions on how the SMART Goals interweave with the business plans and might approach committees on short notice with some fairly specific questions. They might even come back to committees later in the year to answer definitive industry questions, questions they really couldn't even anticipate at this time.

There were two ways for WHPA members to have input into the business plan development process.

1. Attend Commercial Subcommittee meetings and participate and provide your organization's comments and suggestions.
2. Give IOU program managers feedback via the SMART Goals on how to run better programs.

He didn't think there would be an opportunity to provide program level feedback during the business planning process because business plans were intended to be at such a high level. The business planning process has so many changes that he didn't think that a committee which met monthly would have the capability to respond in a timely manner. Attending the CA EECC subcommittee meetings seemed to be the best way to provide input at the business planning level. After they complete those business plans, that was when they could turn their attention to program planning



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sometime around the end of Q3 and Q4. Until then committees should work to finalize their SMART Goal documents and work on how to help the IOUs improve existing programs. The IOU program managers would get to program planning later this year.

Scott Higa, SCE, suggested members visit the CA EECC site where there was a lot of information in general and about the individual sector subcommittees. Also, to look through the FAQs listed which might answer many of their questions.

CAEECC Home page
<http://www.caeccc.org/>

Business Plan Development Stage	Time Frame
Stage 1: Market Assessments and Gap Analyses	February - March
Stage 2: Problem Statements, Interventions, Metrics & Partner Groups	March - April
Stage 3: Initial Business Plan Chapter Development	April - June
Stage 4: Full Business Plan Review and Completion	June - August
Stage 5: Filing Business Plan Applications	September 1, 2016

For planning purposes, the energy efficiency portfolio is divided into six sectors (click [here](#) for more information on each subcommittee):

- Residential
- Commercial
- Public
- Agricultural
- Industrial
- Cross-Cutting: Workforce Education & Training, Codes & Standards, and Emerging Technologies

Participation is open: You may participate in person, via phone or webcast in the meetings that interest you or just provide written input. Meeting notices and agendas are posted regularly on this website.

FAQ page:
<http://www.caeccc.org/#!frequently-asked-questions/jxz2t>

Weekly update information site. Sign up to receive weekly update summaries with links to your areas of interest.
<http://eecoordinator.info/energy-efficiency-coordinating-committee-meetings-for-commercial-and-residential-sectors-222-223/>

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<http://www.caeccc.org/#!commercial/jxqdp>



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CQM Committee 2016 Goals – Don Langston

Don Langston referred to the 2016 goal topics which had been approved by the Executive Committee. He asked members to provide Bob Sundberg with any comments or individual goal statements they wished to contribute between now and the next meeting.

California Legislative Assembly Bill 802 & Senate Bill 350

No discussion.

Closing Comments/Adjournment

Don Langston suggested the next meeting be scheduled for Tuesday June 14 at the usual 10:00 am PDT.

Tentative agenda items:

- IOU program monthly updates
- CQM User Guide Working Group update
- CQM Committee detailed goals and progress milestones
- IOU business plan development – committee/individual involvement and committee input

The meeting was formally adjourned at 11:07 am PDT.

* * * * *

Summary of NEW Action Items and Key Decisions

May 2016 ACTION: Scott Higa, SCE, would provide Dale Rossi, Don Langston and Bob Sundberg with SCE staff contact information for the right parties who worked on development of their HVAC Optimization, CQM program plans, plan goal development and methods of evaluation and reporting.

May 2016 ACTION: Dale Rossi requested each IOU program manager (Jeanne Duvall/PG&E, Scott Higa/SCE, Jeremy Reefer/SDG&E) provide relevant IOU staff contact information for those responsible for Standard 180 based maintenance program design, implementation and evaluation. It would help to have any staff participate who had been responsible for contract/agreement maintenance plan development, maintenance plan goals and evaluation metrics established and goal progress reporting. Also, that those staff members be directed to participate and support efforts of the Standard 180 User Manual Working Group by providing current program background information and input to the user guide development.

April 2016 ACTION: Don Langston asked that representatives of PG&E, SCE and SDG&E be prepared at the next meeting to inform committee members how they might best be able to assist the IOUs with their business plan development. Completed.

March 2016 ACTION: Scott Higa committed to providing CQM program existing customer comments at a future meeting. Ongoing.

PAST ACTION ITEMS:

September 2015 ACTION: Scott Higa, SCE, would report progress on the testimonials and access to and analysis of customer energy data at the next monthly meeting. Ongoing.