

WHPA EBEE-EWG Committee Work Product #2-Pathway to Implementation through the Lens of HVAC (DRAFT)

As of March 16, 2016 (Developed in Collaboration with WHPA Existing Buildings Energy Efficiency Action Plan Committee and CEC Existing Buildings Unit Representatives)

TIMELINE	2017 thru 2019	2017 thru 2018	Ongoing	2016	2016 (based on 2013-2014 CA WE&T Needs Assessment)
EBEE-AP GOAL	Goal 1: Proactive and informed government leadership in energy efficiency.				Goal 3: Building industry delivers innovation and performance.
STRATEGY	1.5 Realize the Full Benefits of the Building Efficiency Standards for Existing Buildings: A. Improve Building Energy Efficiency Standards as Applied to Existing Buildings			1.5 Realize the Full Benefits of the Building Efficiency Standards for Existing Buildings: B. BES Compliance Improvement for Existing Buildings	3.3 High Performance Workforce, Education, and Training (WE&T): Implement WE&T Strategies that integrate KSAs with WE&T curriculum; update training to include best practice building science and code requirements.
SUB-STRATEGY	1.5.1 Improve Clarity and Ease of Use: Develop approaches to simplify implementation of BES for existing buildings by unifying definitions with industry practice, by clarifying code requirements, and through the use of expert systems or other navigation tools.	1.5.2 Review BES for Cost-Effectiveness: Confirm that BES requirements are cost-effective when applied to existing buildings using careful review, industry engagement, and BES modifications where needed.	1.5.3 Training and Communication: Enhance communication, education, and interactions with Local Governments to facilitate compliance and enforcement with Standards	1.5.5 Understand the compliance shortfall: Work with Local Governments (LG), manufacturers, and contractors to determine compliance gap and understand the role of permitting, and the needs of buildings departments	3.3.1 Priority sectors, systems, and workforce categories: Using expert panels, set priorities for the building segments most likely to scale up soon for efficiency adoption, and identify which building systems and trades need the most improvement.
WHPA WPI (Gaps and Barriers)					
WRITING STYLE	<ul style="list-style-type: none"> Simplify/K.I.S.S Edit for grade level/Elim. run-on sentences. Use tables rather than text & paragraphs when possible. Drastically reduce/eliminate exceptions. Restructure/re-write Group- all Exist Add/ALTS together reduce references to other sections 				
PARADIGM CHANGE	<ul style="list-style-type: none"> Focus on compliance and Enforceability- A good code, well-enforced saves more than a great code that is next to impossible to enforce. Get 80% -Don't "nit-pick" Need a new understanding that values Energy Stds users - (contractors and Building Departments) Stop pissing off users 				
TOOLS	<ul style="list-style-type: none"> More/better ACE Better HERS/BO Collaboration APPS for tools (e.g. Codecycle.com) Better forms Online tools for concept/ design/permit/ acceptance/verification/inspection/final- Not a TURBOTAX model ACE with perspectives for lighting contractor, res inspector, HERS rater, etc. Better registry 				
OTHER	<ul style="list-style-type: none"> Alt compliance paths (LEED, Passive homes, etc) OMIT FORMS rules from Stds 				
IDENTIFY PROBLEMS	<ul style="list-style-type: none"> Surveys of users to ID issues and give Feedback to CEC Building Standards Devel. on Exist Building conflicts/difficulties 				
CURRENT, ONGOING STANDARDS DEVELOPMENT MODEL(S)	<ul style="list-style-type: none"> Role of CPUC/Utilities/CASE ,\$\$ Role of Consultants \$\$ BO ride-alongs for staff/lessons learned Incrementalism "Git-r-done mentality" Role CEC's Bld Standards Devel. Office Role of ZNE goal 				
INDICATE RESIDENTIAL, NONRESIDENTIAL OR BOTH					
INDUSTRY	<ul style="list-style-type: none"> Role of Industry Stds en lieu of Building Stds- to "raise the bar". Obligation for energy quality Role for Performance Contracting 				

INVOLVED PARTIES	<ul style="list-style-type: none"> • WHPA • CALBO • CASE • Utilities • Consultants 	<ul style="list-style-type: none"> • WHPA • Utilities • Consultants 	<ul style="list-style-type: none"> • WHPA • CALBO • Utilities • Consultants 	<ul style="list-style-type: none"> • WHPA • CALBO • Utilities • Consultants 	<ul style="list-style-type: none"> • WHPA • Statewide IOU WE&T Team
REPORTS and PUBLICATIONS	<ul style="list-style-type: none"> • WHPA Compliance 2016 SMART Goals (in process) • WHPA Compliance Comm Rec on Title 24 (2014) 	<ul style="list-style-type: none"> • WHPA Cost Effectiveness Testing Webinar (2015) 		<ul style="list-style-type: none"> • WHPA Compliance Online Permitting Roadmap (2016) • WHPA Compliance 2016 SMART Goals (in process) 	<ul style="list-style-type: none"> • WHPA HVAC in Whole Building Performance Education Industry Roadmap (2014) • WHPA EBEE Action Plan Alignment Table: Gaps & Barriers (2015) • WHPA Commercial Sector Strategy SMART Goals (in process)
2019 STANDARDS DEVELOPMENT TIMEFRAME					
COMMENTS					