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June 8, 2018. Seven Hindsight Comments Regarding Yesterdays 2018 IEPR Commissioner Workshop on Doubling Energy Efficiency Savings.

ONE. Why are we using R for retrocommissioning in the acronym BRO? I see us making fun acronyms here, but I am not understanding this. Are we suggesting changing regulations with this word? The retro part of the word makes me think that some believe old practices are better than new ones. This seems even more likely knowing how the U.S. president's practices often seem to be reverting to older systems. I believe that it might behoove to streamline what is developed, remove what is obviously not working, and groom the ideas that are good, rather than to trash whole systems. To me, this field is obviously complicated, sophisticated and in its present state far too much for any one person to manage in any completely healthy way. It is almost as though one expects to become an encyclopedia instantly for many different subject matters. I feel sorry for those in charge in this case, but they need an ax, not on the people, but on excess work. Cleaning out excess processes, not trashing them, makes a lot of sense, immediately, to me anyways, to bring it back into a more manageable space.

TWO. Regarding the end of workshop blue card comment, end of about heating and air conditioning systems, HVACS, getting replaced, with cash as the biggest buyer, little regard for anything but cheapness, using no permits and at the last minute. These comments seemed true, to me, though I had no idea that California citizens were not obtaining permits. I am not sure this ought not to be one of the highest priorities, especially with the one-set of summer 2018. Working at the Sacramento Municipal Utility District, SMUD, 2005 to 2015, often designers had calls of HVAC going out. A meter and service might indicate that there is an elderly person now at risk and the designer needed to give this kind of project a more emergency like response. Sons and daughters frantically were the contacts, wanting us at the property as soon as possible and usually to grant them exemptions for panel main breaker replacement. This seems a huge problem. We do not need to oversize systems. Plus, I hope I do not end up in this situation, needing a good HVAC at the last minute, but it is a possibility for anyone, especially in a heat wave.

Also, of high pertinence to my neighborhood in Sacramento county, I might ask that HVAC people work to put out more considerate machines for multi-unit housing so that we have less "white noise" hum coming from every direction at all hour, not only from these machines, but from every other machine. If there is an HVAC registry, putting decibels onto the listings makes sense to me. In densely populated situations with machines close to neighboring property lines, we seem to have more noise than had been typically conceivable by HVAC designers. Permitting, attending to final checks for noise, might be well encouraged too.

THREE. Human behaviors seem commonly not predictable and can be anti statistic loving. I

might guess some residents use their machines, including HVAC, for security reasons and or their mad reactions to other people. I had a customer at SMUD who seem to have a backyard sprinkler on a motion detector. Now, I have neighbors, close by, whose HVAC and heat pump units, operate no matter what the temperature is outdoors, no matter how great of a Delta breeze we have, etc. I want to use my system at bad night hours occasionally and it was likely installed at a noise level that does not comply with noise ordinances. I was working at the time I paid for this. I trusted my HVAC contractor. I might guess that some people however, turn on their HVAC to annoy and or to make others feel like they are at home, giving more security like sound to their homes. Some probably suffer a programmed thermostat and or a SMART thermostat that cannot be turned off. Hopefully if we all resign to SMART thermostats, California utilities can provide home security to paranoid people and turn off any energy abuse in these unpredictable situations.

FOUR. Home Energy Rating Systems, HERS. Though Dr. Sam made some sense in referring this newer science to creating energy nerds. I think most people would not complain for a more Jetson like lifestyle, if good HERS results were obvious, not difficult to assess and displayed prominently more often. This system might get more buy-in. Before HERS project data seems to be necessary to know how much effect after HERS project data has. I see this as a case of not properly marketing data, that is, if the data is good. I have been subject to this lack having recently completed an attic insulation and duct work project. Before and after seem necessary to know for each person involved. If the data has been un-impressive, then that is another story.

FIVE. The California System Operator, CALISO, and the California Energy Commission, CEC, greenhouse gas emissions charts, in separate presentations, showing clearly that the middle of the day has less greenhouse emissions. This is impressive, in my tiny opinion. If this information could be put into a simple attractive public service announcement graphic, with the days of the month and the hours of the day clearly labeled, I think you might be able to sponsor some great mending grass roots time of use efforts in California for using this solar energy generation during the middle of the day. The current commercial broadcasted on national television using cold water for laundry encourage me. Also, I have thought that somehow managing laundry to be done during a certain time of use rate, might help manage people that work at home. I suggested a grass roots effort like that long ago on Linked IN and/or Facebook. Dishwashing, obviously needs hot water, but also could be similarly given a discount at certain time. Also, I noticed that my large water heater can be turned on for one half hour and the hot water lasts for more than 24 hours. On a tangent related note, I am not sure if this is true but, I heard that the Sacramento Municipal Utility District SMUD rates were going to increase during daylight hours especially; this action seems out of sync. I have not taken time to review if this is true. It is gossip to me at this moment. I hope that we can prevent this from happening, though, with all California utilities. I understand rate increases are necessary and oblige, though, not necessarily during middle of the day in California, IF these graphics are true. I think we have enough information to get with this good new data and instead increase rates in the evening, IF these graphics are true. California might appreciate its differences in this respect rather than shun them.

SIX. The comment on how utility workers less accepted a new conservation voltage reduction, CVR project, which caused the project more delay than any other problem the project team encountered. This is a true problem. Lineworkers, especially older ones, for example, seem to be

a very resistant tough crowd. They have their reasons and hardly have expressed them well publicly online in the past. They were not the computer connected crowd. Their work is quite physical, life threatening and grueling sometimes. There have been significant reasons to question new processes that cannot be removed later. It might be, however, is a great idea to share how stalling this kind of attitude can be to groups like lineworkers. I suggest showing off this case of conservation voltage reduction great results to utility lineworkers so that they can have some retrospect to their own attitudes.

Similarly, one might assess I, and many I have followed for the last three or four years, might be stalling wireless systems and not understand why. I stall this because the human body is electrical. I have had some bad health symptoms that are not easily explainable. I hate to think about ideas such as death by satellite and or lipomas made by store scanning laser devices that are possibly hacked. Our organs react at extremely low frequencies, unlike our electrical systems and devices. Also, electricity is hot. I am not sure why anyone would deny that. One might want to think about invisible electrical fields that heat, not only humans, but our planet. The science maybe great because of its convenience, but it is not regulated well at all. It uses old safety testing data and does not take into account multiple company involvement, i.e., cell tower owner and phone manufacturer. Also, I am not exactly sure if and why the concept of everything done faster makes greater circumstances, except that it satisfies a lot of human caffeine consumption feelings. Not many have time to figure out, it seems, if satellite to earth connections caused global warming or if plane tracking radar systems are heating us too much. If we all adopt the internet of things, IoT, in our homes without making clear designs that eliminate health hazards, i.e., not putting smart meters and thermostats near our sleeping spaces, it also might be damaging to human health. We all need a safe sanctuary to heal even if it is only for a certain number of hours in the day. Also, if you have an invisible field of electricity suddenly going through your child, and or you receive a phone call that damages your ears, I doubt you would not be concerned.

SEVEN. SMUDs lawyer, Mr. William Westerfield, recently submitted a docketed page, which made the CEC listserv regarding electric vehicle infrastructure. From that, I had the idea that new building designs ought to have requirements to install EV infrastructure for nearly every owner and or driver. It makes it easier for new residents to adopt EV when they move.

That workshop yesterday was like a mini-conference. Well managed. Educational. I noticed a few more SMUD people showed too. I hope they thought that was worthwhile. Thank you for sharing.