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2020_01_14 OOOOOooooo forgot to mention a like to SDGE's distribution circuit study & suggest more microenvironment CA design

I forgot to mention a like to SDGE's distribution circuit study. That study and presentation seems relevant, in my tiny opinion, to California, to notice. Certain distribution circuits have more demand, at different times. That evidence may reflect residents coming home on some circuits and businesses turning off on other circuits.

It made sense to mention to at first target larger demand customers, probably commercial, rather than tiny demand customers, who are residential. I am not sure that comment was from this presentation, I somehow managed to bring a pen with no ink - ha ha on me, huh - and took no notes today. Writing that though, all people matter! The more people whom become educated on energy demand issues, including the youth at home, the better our future might be.

With SB100 goals, it seems severe demand changes are going to have to happen. This could happen in our = Californias more temperature climates, unlike it could happen in places like Illinois with harsher weather. However, from what I have been witnessing in the last several years, it seems power engineers have been trying to make less bumpy demand curves - more gradual predictable straight lines, unlike the duck curve and dragon curve. They might want relaxing and safe work much of California's population. California was not like New York's high energy environment long ago. CA has definitely changed to be more competitive and in some not so nice ways. It is possible we can figure out how to re-embrace our more relaxed California nature, and re-embrace our - typically - kinder environment. I am not sure CA will be able to push SB100 goals on other states. Different states have different environments. It seems many have been pushing building HVAC units to be on constantly, programmed by SMART thermostats. This might not be necessary in California.

It might be worth an experiment on the old idea: turning off the HVAC at night as much as possible. Use blankets and enjoy the cooler night, if you can - do not have health issues - and if your area cold is not too severe. It is hard to imagine it is ever too cold, from my perspective of someone who snow camped in California back in the eighties. My sleeping bag - and partner at the time - kept me warm. All was well. Turning all that more off at night would be a big load change. Educating residents to relish their power equipment when the sun out or on windy days is also great. Homemakers might love to help the energy cause if they were more trained to love how. I enjoy thinking about it, as a single person; even though I hardly make a difference, maybe I set a little example.

I like the idea of renewable Hydrogen storage becoming more of a reality - if it can be done safely and without causing breaking news issues.

TANGENT ISSUES, NOT DIRECTLY ABOUT DEMAND - In a way, I am sorry to think like this, because I know it is not what the Internet of Things = IoT people have been working on. I

am still concerned about things sending waves of EMF through people, like Aunt Marge sitting on the couch knitting, for example, minding her own business. It seems this must not be a huge health issue, but I am not sure it will ever make sense to me to think it would be harmless. Sorry. I am not trying to stop energy business progress. I use a cell phone with wifi at home too. I have tried to discuss EMF health issues online before with IEEE SMART people. No luck. And since I brought that up, maybe there was a business surge - similar to how people buy more guns when gun legislation is proposed. Hopefully my opinion has not had any influence like that, because I know I am not designing this type of signal and connection, have not been any kind of expert on how that technology works - and have been learning about it the hard way. What I think I realize, is the human health of EMF connections are, generally writing, not regulated well, necessarily, but that is more the job of the FCC - right?

Note: variable speed HVACs, though they seem less noisy at most operating speeds, sometimes start up with louder noise - waking nearby residents. Noise is a huge issue that is not addressed well.

I think that is it. Thanks again for a great meeting.