

DOCKETED

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Public Health Education Advertising for Electrical Devices and Associated Conservation "Unplugging" Advice

(I am submitting my same comment again without the form as to view information - which I gather is longer than the form field - in the official CEC pdf form one has to click on the field boxes. No offense intended to anyone at the CEC. I know office administration, in this case form design work is not as easy as others might believe it is. It is hard work. Since I did not immediately figure out why the spaces were blank after the CEC published my filled out form last week, others may not be obvious to other viewers as well. It is easier not to click on links and such to see information too).

The Energy Commission is currently soliciting ideas and stakeholder input for the 2018 - 2020 EPIC Triennial Investment Plan. For those that would like to submit an idea for consideration in the 2018-2020 EPIC Triennial Plan, we ask that you complete the form below. Submittals are due by 5:00 p.m. on February 10, 2017.

Part 1. Initiative Description and Purpose:

1. Please provide a brief description of the proposed initiative:

Public Health Education Advertising for Electrical Devices and Associated Conservation "Unplugging" Advice

2. What technical and/or market barriers would the proposed initiative help overcome? For scientific analysis and tools, what knowledge gaps would the proposed initiative help fill?

This idea can help identify the health role our modern electrical devices are playing in our lives as humans. There has been an increase in the number of electronic devices that our public is exposed to especially with the installation of wireless communication. These new devices are regulated (or not) by very old standards for human safety and health. There has been an extensive research on how electrical devices affect health; yet because of societies financial gains in creating new devices, there has been little recognition of seemingly obvious health hazards associated with new devices. Recent published electromagnetic field health research by qualified acting professionals is available. Some have suggested that there is a possibility that radio frequency damages DNA and may contribute to breaking down the blood brain barrier. By examining the extent these devices are surrounding individuals and by examining data regarding their associated comfort in terms of their physical and mental health, this initiative would bring health awareness to our communities.

Part 2. Benefits and Impacts

3. If this initiative is successful, either fully or partially, what would be the expected impact? Who are the primary users and/or beneficiaries?

All community members of all backgrounds, economic statuses and races would benefit from this knowledge. The persons who create, design, advertise and place new devices would learn of the importance of creating safer technology/design. People may learn how to not harm others by overemphasizing concepts that are not necessarily healthy - such as constantly increasing connection. People may learn how to create safe, more comforting places where the human body is less exposed to radiation in their own homes which may help them sleep more soundly and allow their bodies to heal/recover more rapidly from their daytime working exposures. Caregivers and those who have traditionally managed homes and health and whom are often less wealthy but necessary persons in our societies could be made more aware of their abilities to contribute to electronically safer living and working spaces.

A public service announcement advertising/marketing campaign could in addition emphasize how in California our typically balmy climate allows us not to have their heaters/air conditioners on overnight as well as all of our other fancy electronic devices. Public awareness on our individual's right and "power to unplug" could not only contribute to improving human health, but also contribute to customers using less energy and thus saving on their energy bills.

4. Describe what quantitative or qualitative metrics or indicators would be used to evaluate the impacts of the proposed initiative:

This idea requires surveying groups of persons and their health situations. This could be done with a particular group in mind.

Example One: Comparing hospital patients in patient rooms which have varying numbers of devices and detailing their sleep patterns as well as their recovery rates.

Example Two: One could do follow-up reports on our most modern LEED certified commercial building occupants to find out if the persons within these buildings are experiencing the same health patterns as persons who occupy less connected buildings. (I actually suspect that one might be surprised by this information. I think some of our newer buildings have paid little attention to bombarding occupants with wireless communication. There are situations such as the SMUD employees whom moved from older buildings to newer buildings, where employees might be able to share why they think their old situation or their new situation is healthier or less healthy).

Example Three: One could survey students in more and less modern classrooms. The quantitative measurements would involve finding a large number of people who have experienced the same locations and their related ages/genders.

Qualitative measurements would be measurements of their sleep patterns, number of doctors visits, number of emergency room visits, and attendance patterns. The details would include the number of devices, antennas, noise levels and cell towers in the environs of each person. Measurements would also have to include any possible interfering factors such as any possible exposure to toxic chemicals.

5. Please provide a list of peer-reviewed references that support the responses for questions 3 and 4. Proposed initiatives that include peer-reviewed references will be given stronger consideration.

I have thought of this proposal from my own reading in the last few years after experiencing physically ill health while working for an electrical company. The references I can include here are from this self-induced education.

1. "Dirty Electricity", by Samuel Milham, MD, MPH. This doctor suggested that many human diseases began with the advent of house electricity. In particular he studied childhood leukemia.
2. "An Electronic Silent Spring", by Katie Singer (2014). This author has reviewed the subject of electromagnetic fields in detail.
3. "EMF Health Alert" by Holly Manion and Alfred Pacheco (2013). These authors created a small book with electromagnetic safety advice for individuals
4. International Institute for Building Biology and Ecology (IBE) at hbelc.org. This organization educates building biologists and others on potentially health hazardous elements of a building including electromagnetic field exposures.
5. Dr. Martin Pall, Biochemist, who has recent research suggesting that wireless affects Calcium Ion transport pathways and thus nitrous oxide build-up inside cells causing toxic effects similar to toxic chemical exposures. Many of his lectures are available for public viewing on YouTube. There are a number of other researchers of Dr. Martin Pall's education caliber who have also contributed to educating the public on the hazards of wireless radiation.
6. "Campaign for Radiation Free Schools", Facebook Site managed by Camilla Rees. This site posts a vast amount of not completed substantiated and some seemingly well verified authentic looking information from various persons

regarding cell towers, cell phones, smart meters.

6. (For technologies only) What competitive advantages does the proposed technology solution have over current benchmark technologies? If the technology is beyond the prototype stage, what strategies do you suggest to bring to scale?

This technology of modern education and advertisement brings a low cost solution to all of our California citizens in terms of electronic health education. Positive interior/exterior (i.e., placement of smart meters) design impacts could assist our workers in realizing where and how many new devices in schools/homes/offices/public venues biological occupants can afford to be exposed to without causing health impacts. Energy savings across California with wide spread public awareness of un-plugging devices at night and times when spaces are not occupied.

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Technology for collecting data would be accomplished with Microsoft Excel software and/or the something similar. Technology for creating advertisements can be done with Photoshop and Illustration software programs. These technologies are beyond the prototype stage. The strategy would be to bring California resident awareness to the concept of electromagnetic fields so that the science of electromagnetic field is no longer looked upon as a "junk science". This has been particularly difficult in light of the need to bring high technology business to California and the United States. Business dollars have in essence "tied the hands" of our local utilities for example in regulating where a cell tower can be placed. Also the concept can help alleviate the bad conception that we as Californians need to constantly bombard our lives with connection and electrical conveniences as not all of us can afford energy cost increases associated with these devices. There can be an integration of how new technologies can be added carefully and more well planned so that our citizens are not hurt by new technology and so that scientists/researchers/economists can help their own work products bring more satisfaction to their customers. (For example: Modern Internet of Things (IoT) device and cell phone developers may not have as many satisfied customers necessarily if their customers cannot turn off their devices easily and by design). Places of rest can be re-established so that our citizens minds and bodies are not constantly stressed in ways that are not obvious to even those that are being exposed. This proposal does not mean the elimination of technologies, this idea is intended to bring more thought and proper design to proper placement, incorporation and adoption of devices for every consumer and designer.

Part 3. Connection to Energy Commission's EPIC Framework

Energy Commission staff have developed a draft strategic framework to guide the CEC's planning and implementation of EPIC across triennial investment cycles. One of the objectives of the draft strategic framework is to communicate a consistent set of priorities for organizing current and future EPIC investments.

7. Please indicate which of the following strategic framework themes you feel the proposed initiative best fits within:

☐ Advance Technology Solutions for Deep Energy Savings in Building and Facilities

☐ Accelerate Widespread Customer Adoption of Distributed Energy Resources

☐ Increase System Flexibility from Low-Carbon Resources

☐ Increase the Cost-Competiveness of Renewable Generation

☐ Create a Statewide Ecosystem for Incubating New Energy Innovations

â€¢ Maximize Synergies in the Water-Energy-Food Nexus

â€¢ Develop Tools and Analysis to Inform Energy Policy and Planning Decisions

â€¢ Catalyze Clean Energy Investments in Californiaâ€™s Underrepresented and Disadvantaged Communities

I answered with:

â€œAdvance Technology Solutions for Deep Energy Savings in Building and Facilitiesâ€

I do think this proposal also contribute to "Catalyze Clean Energy Investments in Californiaâ€™s Underrepresented and Disadvantaged Communities" by helping to advise our less wealthy citizens in what is possible considered "smart" (this word is being used here as a pun on its use currently in marketing here and not to be interpreted quite like it has been recently on device labeling) and "not as smart" in terms of personal electronic device investments.