

Comment Set G0014, cont.
California Botanical Habitat

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G0014-19 cont.

California auto fatalities by county, proportional and equivalent to the ionization of air borne pollutants and cancer fatalities

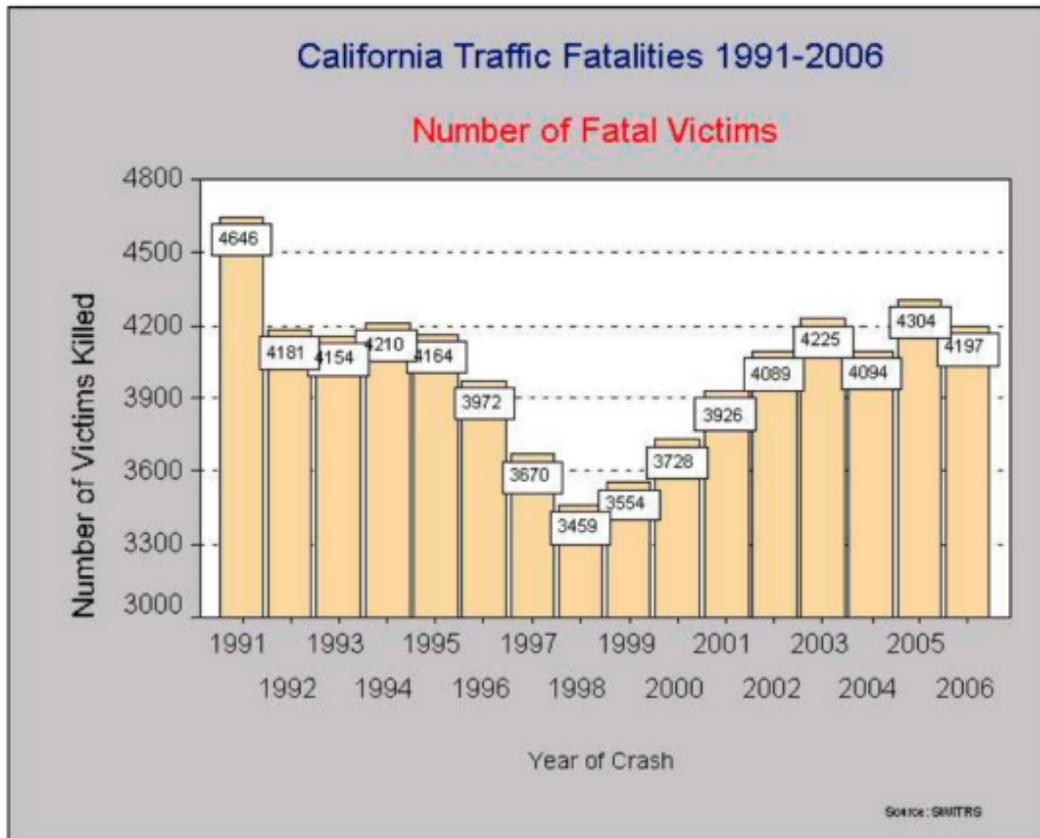
Counties over 1 million	Victims Killed in California Collisions													
	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
Alameda	122	125	106	100	106	107	91	88	90	114	111	112	113	103
ContraCosta	*	*	*	*	*	*	*	*	*	*	*	*	*	67
Los Angeles	1077	950	911	969	972	863	764	624	684	749	768	728	816	750
Orange	217	203	198	185	176	197	175	157	175	164	207	193	215	215
Riverside	290	239	241	294	274	278	253	269	231	266	262	312	303	321
Sacramento	132	135	151	129	124	113	152	88	117	117	147	143	150	131
SBernardino	336	339	367	349	357	333	312	300	297	318	334	334	357	409
San Diego	373	296	300	273	258	259	229	250	284	260	290	299	290	294
Santa Clara	106	108	110	86	113	119	110	100	103	103	113	112	93	89

<http://cacrash.org/YRCOUNTY.HTM>

Equivalences do not need to be provided for fatalities resulting from the ionization of pollutants or for EMF. Epidemiological studies provided in Europe do not need to be extrapolated to equivalent levels and fatalities for the U.S.; California can provide its own studies if it were considered appropriate or not offensive to industries that would otherwise be paid to place power lines underground, as if that were somehow a disadvantage to the power industry.

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<http://cacrash.org/f9105.html#fyear>

When automotive and industrial air born pollutants flow past overhead power lines they are ionized or charged, allowing the charged pollutants to attach to our fragile lung membranes, damaging local cells and occasionally promoting cancers at a rate equivalent to auto fatalities, based on studies done in the UK (which we previously described).

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Lung cancer image

A [PUC decision](#) on January 27, 2006, affirmed the Commission's November 1993 decision on low-cost/no-cost, policy to mitigate EMF exposure for new utility transmission and substation projects. As a measure of low-cost mitigation, we continue to use the benchmark of 4% of transmission and substation project costs for EMF mitigation, and combine linked transmission and substation projects in the calculation of this 4% benchmark. In addition, the Commission adopted rules and policies to improve utility design guidelines for reducing EMF, and called for a utility workshop to implement these policies and standardize design guidelines. <http://www.cpuc.ca.gov/PUC/energy/electric/Environment/ElectroMagnetic+Fields/action.htm>

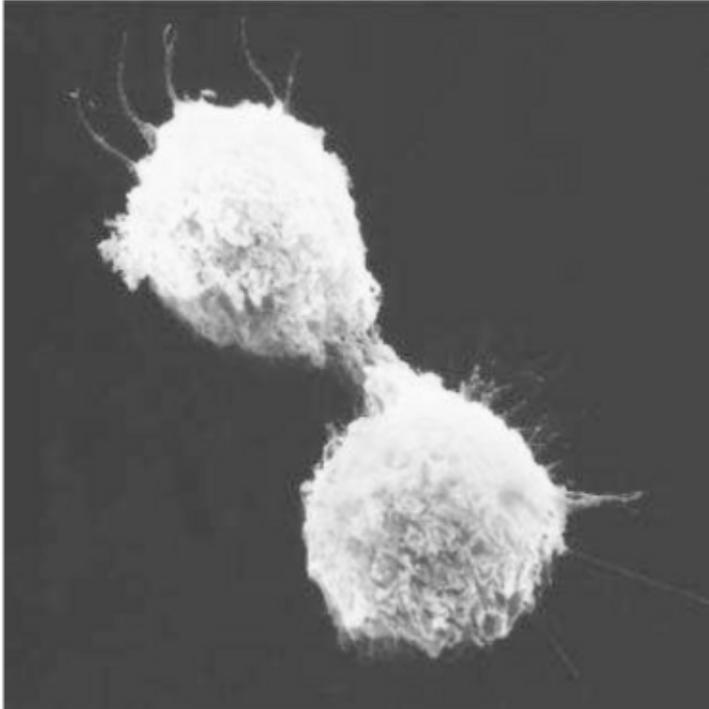
In order that utilities may proceed with a workshop, we define and adopt EMF mitigation polices and rules which address underground transmission lines, application of the 4% mitigation benchmark to EMF priority classes, EMF mitigation modeling techniques, and the locations for measuring EMF mitigation. We also direct utilities to initiate standardized field reduction techniques and develop a table to reflect EMF reduction measures taken or rejected. http://docs.cpuc.ca.gov/PUBLISHED/FINAL_DECISION/53181.htm

See: **Appendix F, Overhead power lines & health effects**

Testimony by: Magda Havas, Ph.D.

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Lung cancer cells

Since the molecular mechanism has not been absolutely proven to everyone's satisfaction, DHS and the CPUC are denying existing medical evidence from Europe showing a 70% increase in leukemia rates for those whose address was within 650 feet of comparatively low power lines, at the time of their birth, based on a study of 29,081 children (which we previously described), while the CPUC claims that this is an issue for the Department of Health Services (DHS), while it has already proceeded and complied with industry interests and authorized 500,000 volt overhead power lines with very potent EMF levels, while disregarding thousands of deaths per year, as if this were somehow beneficial to the power industry, who in any case would be paid to place power lines underground, as well as make a profit, since underground costs less, all without having anyone's lives placed at risk or having anyone's family income depleted in order to provide safety relative to EMF and ionization.

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There are several factors at work which make absolute proof difficult, so far. However, there is adequate evidence to associate power line fields with serious health risks and fatal cancers. Unfortunately, the highest forms of proof are required to satisfy the power industry as if the power industry was going to be destitute if any EMF safety were ever offered anyone, so ultimately the state is taking the position of expanding EMF and ionization hazards, undoubtedly as a result of contributions according to the major newspapers of San Diego and Los Angeles. **Strangely, no one seems to notice that a long distance power line which is underground, costs less and doesn't emit EMF, consequently is required to be underground. See: A PUC decision on January 27, 2006 regarding 4% mitigation, described earlier in: "CPUC Actions Regarding EMFs". Apparently to ignore this requirement is a violation of CPUC rulings, as well as a serious health risk to the people of California.**

1. When practically everybody lives in electromagnetic fields and is exposed to ionization, it's difficult to find a local population that's not exposed to EMF, so developing a clear cut epidemiological study is practically impossible, or the differences between the studied population and the control group will always be small, and going to a South Pacific island is not going to provide an equivalent control group.
2. Further, it is not the purpose of an epidemiological study to define, or even prove a biological mechanism. If people are dying in auto accidents you don't need a team of molecular biologists trying to figure out how cell disruption causes death.
3. Electron transport mechanisms and AC field interference has only been studied briefly.
4. Nanotechnology is now only beginning to develop sensitive voltage measurement devices that can enter a cell.

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5. There is already ample evidence to link oscillating fields to intracellular electron flow disruptions which inhibit cellular repair processes, which we reported in our May 9th paper to the CPUC.
6. We don't have the time or resources to create an elaborate experiment to upset the power industry, since we are working on trying to inhibit large scale environmental destruction by the power industry.
7. 200 years ago it was obvious to anyone who started smoking that it was unhealthy, while they were choking, so did we have to wait an extra 200 years for doctors, attorneys and juries to all agree that smoking was hazardous? In the case of high power lines most people are being compelled to endure EMF and ionization, until the electric industry is convinced that everybody knows their product is hazardous.
8. Since there are people living beyond 100 who regularly smoke, we could say that there's inadequate evidence that smoking is hazardous. However, attorneys might classify any plausible deniability statements from the tobacco industry, which we occasionally see enclosed in our electric bills as an effort to protect and sustain a fraud, or participation in mass murder, or an attempt to evade prosecution, a conspiracy, a public deception, etc. but since everyone has teams of attorneys, many thousands more would succumb to cancer before some inadequate judgment were decided on.
9. We already have a low cost way of eliminating practically all EMF and ionization of pollutant exposures, by placing power lines underground, particularly high powered EMF generators such as this overhead AC Powerlinks.

Biological effects of non-ionizing electromagnetic energy: A critical review of the reports by the US National Research Council and the US National Institute of Environmental Health Sciences as they relate to the broad realm of EMF bioeffects

By Magda Havas (See the following link for a review of numerous scientific research studies:)

<http://www.powerlinefacts.com/Canadian%20Review%20of%20NCR%20and%20NIEHS%20studies.pdf>

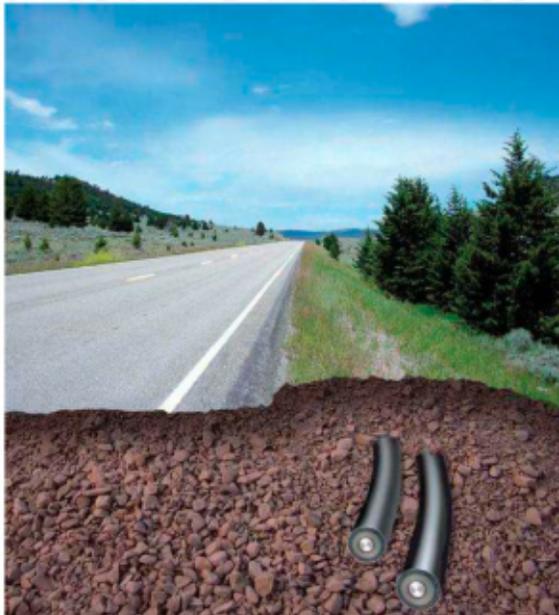
If the link doesn't work a Google search using the following keywords should retrieve this 2 megabyte 89 page research paper: powerlinefacts havas pdf

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Underground power lines are a low to no cost approach to eliminating EMF & ionization hazards.

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**"It's only going to get worse.
We're too dependent on hydrocarbons."**

George Bush, June 9th 2008, ABC News 6pm (Honest, but 40 years too late.)

There's no way America's and the world's extraordinary dependency on oil can be converted into an extreme dependency on electricity, particularly when electricity includes transportation demands, and when that energy is generated with liquefied natural gas/LNG, without the price of LNG skyrocketing. The rapid conversion to renewable energy is critical to California's economic survival, among many other issues that are being ignored or opposed by our leaders.



Sempra's Energia Costa Azul LNG terminal storage tanks, Baja Mexico May 2007 construction photo:



Sempra's Energia Costa Azul LNG terminal storage tanks 14 miles north of Ensenada Mexico.

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Conservancy images

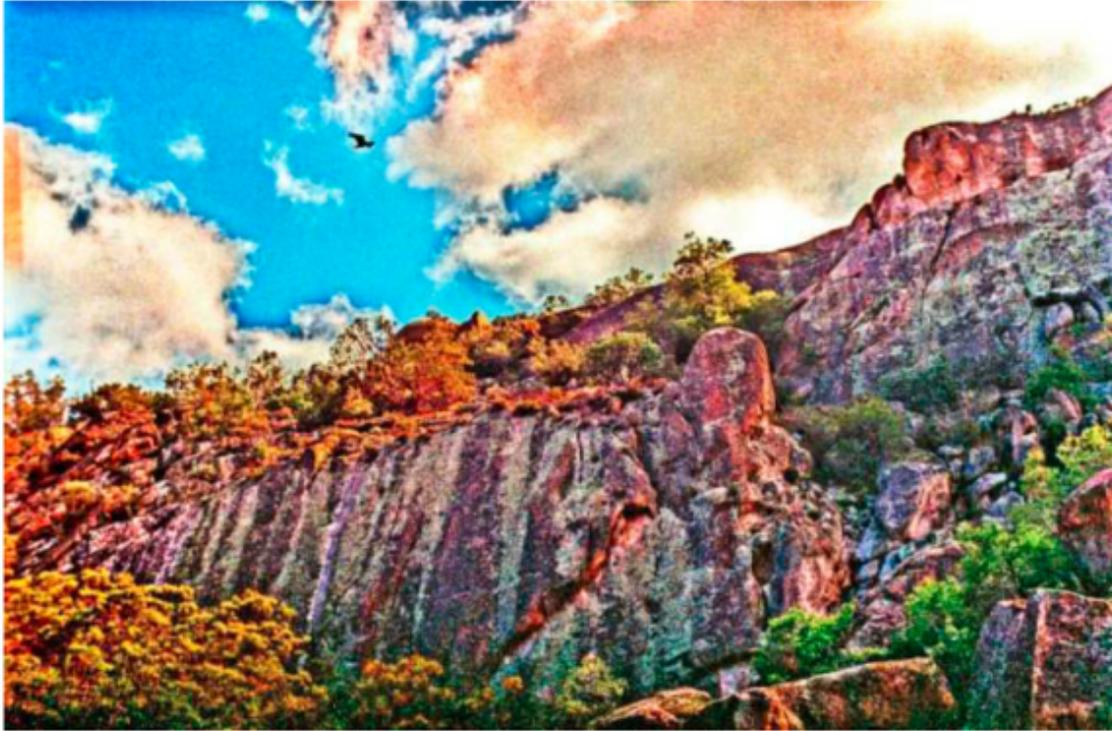


Bankhead Springs Monument above Interstate 18 and the McCain Valley (BLM)



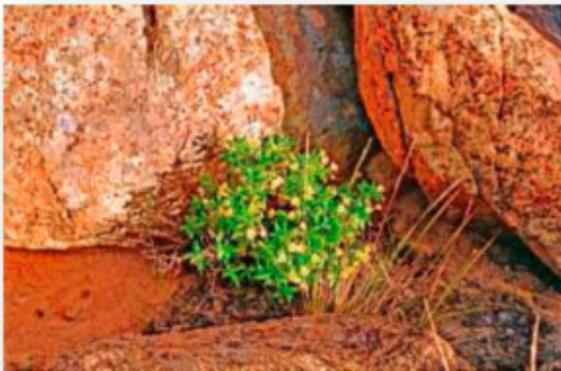
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Bird above cliff garden, Bankhead Springs California, 2/21/93

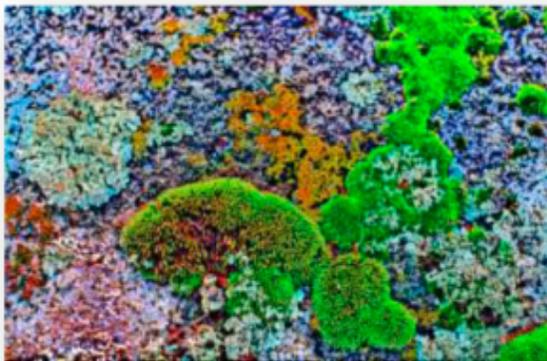


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Water in rock garden, Bankhead Springs California



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Acorn grinding rock



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Western view of Anthropological Reserve, Interstate 8 and McCain Valley, February 21, 1993



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Manzanita and flat granite



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Southern stone monument and cave



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Northeast ridgeline view of adjacent Anza Borrego Desert State Park in the background



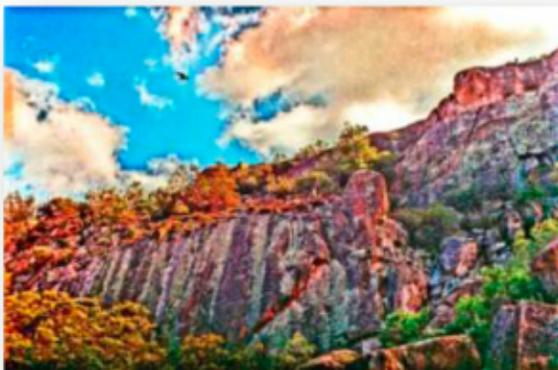
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Northern rock head at sunset



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Looking north into Anza Borrego Desert State Park in the background



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Evening beyond the northwest valley, above the McCain Valley extending to the distant mountains in the background. Damages to this pristine wilderness could never be restored.



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Mountain top cavity with ABDSP to left



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Leaning rock at sunset



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Light entering rock at sunset, 50mm lens on 35mm Kodacolor 100, Nikon V scan



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Mountain top garden after sunset, looking west toward Boulevard California, 180 degree diagonal



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G0014-19 cont.

Western point illuminated at sunset, above the McCain Valley in the background

