

SECTION IV

BEYOND THE CURVE OF DEREGULATION

There is much to learn in reviewing the historic chronicles of energy agency proceedings. One of the most salient facts I hope to have transferred in this process is that we cannot and will never establish any type of real competitive market by deregulating monopolies. What activity from sports events to education to commerce prides itself in being able to provide a truly competitive arena with no referees or regulation?

Deregulation is a misnomer when applied to the goal of fair competition. Strategic regulation is necessary especially when transforming monopoly-dominated commerce. It doesn't take a rocket scientist to understand this.

It is possible to evolve humane democratic intervention in energy commerce. Consumer education and awareness are vital. Despite industry myth alleging several families run the energy industry and the world, they are powerless without consumers. Such hype is similar to the fraudulent claims in tours at Georgetown University insisting the 30,000 SF BI-PV solar array was painted over alleging it makes planes crash as they fly into Ronald Reagan Airport. Alan Greenspan insists we must not tamper with the energy industry and allow *natural market* dynamics to rectify the situation, and perhaps it is time to remind him that consumers are a *natural market dynamic*. The regulation of the tremendous *vacuum of modern commerce* must be *openly and economically accessible to the public and sensitively adaptable to new knowledge, conditions, needs and technologies*.

Where modern society is fraught with unethical, hazardous and inhumane commerce dominated by faceless corporations *everyone* pays the price. Individuals not anonymous companies [them] mismanaged the numerous administrative disputes shared in this book. Valerie Beck, Michelle Cooke, Commissioner Bilas, Governor Davis, Attorney General Bill Lockyer, Judge Thrasher, Stephen Beaton, Francis Papica and Orange County DA Tony Raukauckas are sorely mismanaging the California energy marketplace as shared in Chapter 19. OC DA Rackauckas and other regulators show that they are *tough* on everyone but themselves and their criminal suppression of BI-PV. Where he appropriately supported and joined efforts to mitigate antitrust crimes he wouldn't have such a hard time getting oil cartels to clean up their gas leaks. The media rarely if ever discuss energy agency proceedings or related life threatening environmental hazards until a tragedy occurs. Then, they rarely address the forces that put tragedies in motion unless it is to publicly attack one's family as the press did with the Martha Stewart insider trading case. The press has had very little to say about the families of the executives charged and convicted of

insider trading and manipulation at the Enron Corporation except that Jeffrey Skilling and his wife could only agree to serve ten months for their billion dollar crimes because they have children after all. We didn't hear about the families of the administrators suppressing the highly successful BI-PV demonstration at Georgetown University with fraudulent claims during tours insisting the solar array didn't work displacing billions of dollars of energy industry funding. Where convicted of insider manipulation and related trading with antitrust abuses, a company must pay three times the damages assessed. The suppression of PV from the marketplace if such a suit prevailed would warrant a multi-billion settlement for damages incurred by affected persons and businesses. Where I published a fifteen year \$4 billion dollar business plan in 1995 that translates to an estimated \$12 billion in damages for the Solar Development Cooperative alone. An antitrust suit would do more than publicly chastise criminals, it would dramatically reduce BP Amoco-Enron, Shell, Mobil, and Exxon's antitrust suppression of BI-PV manufacturing worldwide letting the market breathe as well as consumers bombarded with the second hand smoke of the energy industry and related market power tyranny. Antitrust adjudication is a necessity much like traffic laws. While traffic ticketing is sometimes used to harass people as we saw in this book, our roads would be quite dangerous without them just as the energy industry is today because antitrust statutes are not being enforced.

Where consumers can officially serve other participants via the Internet for the first time in history, there is a potential for consumer consensus in energy agency decisions. Rising prices and related market manipulation alert us that there is an obvious need to counterbalance the influence of energy cartels and utilities in energy agency proceedings via consumer consensus before it gets worse. Consumer consensus in energy decisions and antitrust adjudication would have a profound effect on local and global energy commerce. We create the laws for a reason, but we don't enforce them for what reason? There aren't enough educated consumers paying attention? It is no fun if you don't win and it is difficult to challenge energy industry law firms because of the resources that flow behind the industry?

Where proposed consumer intervention is seen as a process that will improve the quality of life for everyone with the reduction in use of remote-site polluting fuels and related market power tyranny, then the idea of winning or losing becomes less of an issue. Everyone will win. *Where more consumers become involved, the more consumers become involved.* As consumers unite via local, regional, statewide and national networks of Neighborhood Energy Watch Solution Groups or N.E.W.S. Groups, the weight of energy agency decisions will begin to shift and so will energy commerce. If you don't think you as a consumer can influence energy commerce after reading this book, you have not really read this book.

CHAPTER 20

Neighborhood Energy Watch Solution Groups Empowering Consumers In Energy Agency Proceedings N.E.W.S.

Why should consumers monitor and officially intervene in energy agency proceedings? Where the majority of participants in proceedings shift to informed official consumer participants, many irrational decisions in energy agency proceedings will be quickly and officially discouraged in addition to achieving the benefits and glories of *consumer consensus*. In 1998, I was literally induced into a rulemaking in response to my complaint before the California Energy Commission and California Public Utilities Commission. I truly had no idea what a rulemaking was. Because I had limited resources at the time, it was necessary for me to serve the other participants of the proceeding via e-mail. This saved me around \$1,000 every time I filed a document. My request for an antitrust investigation in my opening comments filed March 17, 1999 stimulated a \$28 B takeover of the Arco Corporation two weeks later. I wondered from this event what ten consumers could do as official participants in an energy agency proceeding. There are twenty million consumers in California. In 1999, the per capita income was \$22,711 and the average household income was \$47,493.²²⁷ In 2002, there were 12,507,767 housing units in California compared to 11,502,870 households in 2000. Because I have been involved in energy agency proceedings in California, I use California agencies as a model. Every state is a little different. Consumers are encouraged to contact their own energy agencies and to begin monitoring and intervening.

Volume II of *ElectriCity A Workbook to Empower Consumer Consensus in Energy Agency Proceedings* will summarize information about state energy agencies. The goal of this chapter is to explain why consumers should monitor and intervene in energy agency proceedings. I want to encourage consumers to immediately begin monitoring energy agency proceedings on the Internet a few hours a week. Just taking this small step will not only enlighten consumers about their electricity and how it comes to them, but it will also begin to reveal the process through which related decisions are made. They will begin to understand how much these decisions affect our lives and communities. Just knowing that numerous consumers are monitoring energy agency proceedings will strongly discourage insider trading and related crime blatantly occurring in energy agency proceedings. This is an immediate consumer reward. With our dependency on electricity increasing, consumer intervention is vital.

²²⁷ *California Quick Facts*, U.S. Census Bureau, Jan 14, 2005 <http://quickfacts.census.gov/qfd/states/06000.html>

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Federal and State Energy Agencies In California Energy Industry

CALIFORNIA	FEDERAL
California Public Utilities Commission [CPUC]	Federal Energy Regulatory Commission [FERC]
California Energy Commission [CEC]	Federal Energy Management Program [FEMP]
California Energy Oversight Board [CEOB]	Federal Trade Commission [FTC]
California Assembly [AB] California Senate [SB]	House of Representatives United States Senate

Traditionally, the primary participants in energy agency proceedings are the facilitator or *administrative law judge* [ALJ]. ALJs are often not attorneys, but are government administrators. Numerous other government staff including attorneys and engineers represent a variety of interests, numerous utility attorneys or engineers, and energy cartel representatives who are given substantial attention and privilege as participates within proceedings. Most of them have significant experience and expertise. They are paid good salaries and have fairly secure positions. However, the average consumer is informed about electricity commerce through the news, Earth Day, television and motion pictures. Recent movies like The Erin Brockovich Story and The Karen Silkwood Story address oppression if innovation via *remote-site* fossil [70%], nuclear and large hydro electricity.

There are generally a few non-profit organizations like the National Resources Defense Counsel being paid \$100 to \$350 an hour *hardship compensation* to intervene in energy agency proceedings if the Commission deems so at the end of the proceeding. This includes most consumer groups. There may be a few consumers, and in the case of the *distributed generation* hearings there were about five small business associates. The others were gas turbine companies. I was the only solar energy company involved from the entire state of California that was not hired to conduct hearings or workshops. Contracted entities are not allowed to make official comments in a proceeding. I was told I would be paid intervener *hardship* compensation, but as is revealed in Chapter 15, the CPUC refused to pay.

Decisions in these proceedings are strongly dominated by consensus. However, the decision-making dominance of utilities and energy cartels has not been democratically challenged by consumer consensus in a routine ongoing manner before. The dominant voice is strongly in the corner of the utility and energy cartels, which has historically represented over 80% of the official participants. Where consumer participants challenge this domination they could legally counterbalance the historic *market power consensus*.

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Various Participants In State Energy Agency Proceedings

GOVERNMENT AGENCIES	PRIVATE MONOPOLIES	PRIVATE NON-PROFITS	DIRECT CONSUMER	PRIVATE FOR-PROFITS
State	Utility Dist Co*	Trade Association	Consumer Rep	Attorneys
Federal	Utility Cartels	Consumer Org.	Commercial	Developers
Regional/Local	Energy Cartels	Environmental	Residential	Small Business
*Utility Distribution Company [UDC]		A Few Are Paid \$100 to \$350 HR		Unpaid

This chart outlines the typical breakdown of the parties that traditionally participate in numerous energy agency proceedings at the state level. While it may appear to be a fairly level playing field there are a few realities that tip the scales dramatically and evolve a *curve on the grade* perpetuating unhealthy *market power* suppressing needed transformations within the industry. Energy cartels are often formed by oil monopolies. This chart was developed from SDC's participation in the Rulemakings on *Distributed Generation*. Small business is listed in the same category as private for-profit developers and special interest attorneys. Private utility distribution company (UDC) monopolies buy, sell and distribute electricity. Private for-profit utility and energy cartels generate, buy and/or sale electricity. These monopolies are listed in the same category because historically they their significant resources and experience have provided them significant advantage to direct government decisions and incentives more readily than any other group of companies, organizations or consumers. With the advent of mass consumer monitoring and intervention via the Internet and e-mail this will likely change.

The state and federal government are the two largest consumers of electricity beyond primary energy producers, which consume 36% of the electricity presently consumed in America.²²⁸ While they may not be paid directly during energy agency proceedings, energy cartels have historically had the resources and domination to significantly exploit government energy funding while having the least need for it due to their global assets. What we found during our involvement in Cal PUC proceedings is that oil cartels and monopolies generally receive inappropriate incentives not only for fossil fuels, but also for *renewable technologies*. *Least cost* criteria are often veiled to perpetuate the traditional energy sources and to suppress renewable energy technologies. Numerous voices officially questioning this malfeasance could dramatically redirect government resources. It is the need for a dramatic increase in demand-site renewable electricity generation with less pollution and market tyranny that drives this important counter-

²²⁸ Smith, Eileen M., *Building-Integrated Photovoltaics for Primary Energy Producers in the United States of America* [BI-PV PEP USA], American Power Conference, April 1998, Illinois Institute of Tech

experiment in commerce. There is nothing non-experimental about present energy commerce. Many variables discovered and proven by science are being overridden by decisions in energy agency proceedings.

“UCI atmospheric chemist F. Sherwood Rowland, whose groundbreaking work on ozone depletion earned him a Nobel Prize, will be honored at a ceremony on campus at 3:30 p.m. Friday, Oct. 9, at the UCI Physical Sciences Plaza. . . . Rowland is best known for his research on chlorofluorocarbons (CFCs). More than two decades ago, he and Molina determined that chlorinated chemicals used in aerosol sprays and air conditioners were opening a hole in the stratospheric ozone shield that protects the Earth from the sun's ultraviolet rays. Their idea, that small-scale human activities could disrupt the global environment, was new and strange to some. But their persistent research led to a ban on CFCs and greater awareness of the effects of chemicals on the atmosphere-and won the pair a Nobel Prize in Chemistry, which they shared with Dutch colleague Paul Crutzen in 1995.”²²⁹

Legislation Transformed in Administrative Hearings

An example of how the administrative phenomena effects legislation is the appropriations during Energy Crisis 2000 via Assembly Bill 970. The bill was designed to mitigate the alleged energy shortage in California with renewable energy DG and energy efficiency. One portion of the bill legislated \$125 million for consumer incentives to deploy renewable DG technology. The bill was transferred from Congress to the administrative branch of government to be transformed to actual programs and project appropriations. After any energy bill becomes law through legislation and Congress, it progresses through a variety of public administrative hearings and proceedings held in this case by the California Public Utilities Commission (PUC) and the California Energy Commission. This is where the Congressional legislation or statute is translated into specific programs, projects and appropriations.



This subtle fact is one of the most vital bits of information in this book and it needs to be well understood by consumers and small business.

It is a simple, but far-reaching reality that will allow consumers to make consequential use of all the other information provided herein. Administrative proceedings are the reason coal consumption doubled during prime twenty years of Earth Day from 1975 to 1994 with fossil fuel domination dramatically suppressing PV from the mainstream market.

²²⁹ UCI to dedicate building to Nobel laureate, F. Sherwood Rowland, Whose Studies Led to Understanding of the Ozone Layer, to be Honored at Symposium and Dedication Ceremony, Today @ UCI [University of California at Irvine], October 6, 1998, http://today.uci.edu/news/release_detail.asp?key=587

Pricey oil kindles recurring debate on supply, demand²³⁰

“Washington –Prices for crude oil and gasoline were skyrocketing and the Republican and Democratic presidential candidates were vowing to wean the United States from its dependence on foreign oil. . . . That was in 2000. It also happed in 1976, 1980 and it’s true again this year. . . . Some things never change – and the inability of America’s leader [AUTHOR NOTE: any leaders in the global marketplace] to deal effectively with energy issues appears to be one of them – but this year the stakes might be higher than ever. . . . Four years ago, the price of a 42-gallon barrel of oil hovered around \$35. It recently topped \$55. A gallon of gas costs about 50 cents a gallon more than in 2000. And America’s dependence on foreign oil increased from 53 percent to 58 percent in that span. . . . In addition, worries about the growing instability of the Middle East --- the location of most of the world’s oil reserves --- have deepened since the September 11, 2001, terrorist attacks; the start of the war in Iraq; and the beginning of the most radical Islamic jihad against America. These developments make U.S. energy independence more desirable than ever. And, like many presidential candidates before them, President Bush and Senator Kerry promise, by different means, to steer America toward that goal. . . . Yet, most experts say their visions are little more than pipe dreams.” [‘pipe’ EMPHASIS ADDED]

In fact it is the gas pipes in the dream that seem to be the most commonly funded element in energy agency proceedings between both partisan persuasions from Alaska to Afghanistan to California. John Kerry the Democrat candidate for President promised to double Bush’s spending for *clean coal* and hydrogen power. Why do they lump coal spending with hydrogen power. It is a bit confusing. Coal generates over 55% of the electricity in America. Hydrogen generates less than 1%. Funding to enforce *clean coal* laws versus funding *clean coal* would be a more proper appropriation coupled with hydrogen fuel. If they don’t use clean coal, shut them down and use *hydrogen* until they are in compliance. That will get the coal cleaned up in short order and increase opportunities to deploy hydrogen fuel cells. Why are taxpayers and ratepayers providing funding for oil cartels to meet their legal requirements to clean up their coal production when they enjoy profits from 55% of the market? Consumers rely on Congress and energy agencies to protect their rights. If *clean coal* is not affordable with 55% market share, then coal is not affordable.

Consumers should definitely remove coal from the *least cost* list taunted by energy agency decision-makers. In addition to the costs to attempt to make coal more environmental with government spending for *clean coal*, the peripheral costs of ongoing defense spending in the Middle East for fossil fuels including coal is not mentioned in related cost comparisons. Silica or sand is the material photovoltaics is made from just

²³⁰ *Energy issues have familiar ring*, by Seth Borenstein, Kansas City Star, October 28, 2004 front page

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like your computer electronics board. It makes up 27% of the Earth's crust. President Bush promises tax credits for renewable energy and John Kerry insists 20% of U.S. electricity will come from renewables by 2020, however they provide no detail on how they intend to accomplish their goals. John Kerry specifically stated he would double Bush's legislation for *clean coal*. That would be nearly a half billion for *clean coal* a year to the year 2012. Why are we funding a technology we want to stop using? It sounds like a last ditch binge of an addict. With that kind of investment, dependency on coal will naturally increase. Consumers may want to demand your money goes where you want it to go. If coal companies don't clean up their coal, shut them down. Put the half billion a year into BI-PV deployment to realize 20% demand-site renewable energy. Now, that makes sense!

Where a Republican majority in Congress passed Energy Bill 2004 after removing the Renewable Portfolio Standard (RPS) consumers must ban together reinstate the RPS. See Epilogue and THE S.T.O.M.P. ACT for Solar Technologies of Mass Protection. where the democratic leader is proposing such large sums for *clean coal*, it is unlikely that they are going to attempt to reinstate the RPS. The RPS 10% mandate for renewables would assuredly be focused on impractical remote site generation. Remote-site energy power plants are the number one target sited by terrorist informants. Remote-site generation is inefficient. 36% of the electricity used in the U.S. is consumed by energy producers. The many benefits of BI-PV are expanded using demand-site generation because it is easily installed and interconnected to the grid at the demand site and does not increase pollution. BI-PV generates electricity when you need it most during peak air conditioning demand. This dual-use technology is the most efficient, aesthetic, convenient and simple form of electricity generation in the world.

It almost makes you wonder whose side Congress and energy cartels are on until you travel around the world at energy conferences and realize this nonpartisan destructive irrational decision-making suppression of BI-PV technology dominates the global energy marketplace, everywhere.

How has oil commerce been illegally allowed to take over PV technology patents and manufacturing? The Federal Trade Commission could not block BP Amoco's merger with Arco April 1999 following my request for antitrust investigation even though the merger would give them illegal majority ownership of Alaskan oil resources. If oil cartels assertively deploy renewable technologies they are negligently risking stockholder and government investments. If they own, but don't deploy renewable technology patents, they are committing antitrust crimes. Four oil cartels have taken nearly 95% of the PV patents and manufacturing worldwide.

UNITED NATIONS PARTNERSHIP INITIATIVES INFORMATION SHEET

Name of the Partnership/Initiative:

Neighborhood Electricity Watch Solution Groups or N.E.W.S. Groups

Expected date of U.N. Endorsement: August 1, 2002

Expected date of Phase I completion: January 1, 2003

[1,000 Members]

Governments:

All governments are encouraged to cooperatively endorse this program and allow consumer participation in government decisions that are presently facilitating the antitrust suppression of a competitive manufacturing market for photovoltaic technology and discouraging adoption of design standards for the electricity industry, worldwide. One primary goal of Neighborhood Electricity Watch Solution Groups or N.E.W.S. Groups is to evolve a competitive PV manufacturing market and installation service industry for Building-Integrated Photovoltaics in the Global Marketplace. We also seek to mandate Design Standards for the Energy Industry through mass direct consumer intervention in energy agency proceedings.

The City of Huntington Beach, California recently fined AES, a large energy cartel, \$2.3 million dollars for their ugly power plant. They took this action against visual blight over and above the fact that it pollutes Huntington Beach on a daily basis. This is a great step in taking back our neighborhood milieu and resources from oversized criminal energy cartels and Utilities. Oil deployment blight has bombarded Huntington Beach for at least one hundred years. They are banning together to, again, fight the oppressive domination of oil cartels in their community. AES was the company that claimed they were going to go straighten out India for refusing to pay Enron for large outdated energy plants they did not want, and due to Enron induced police abuse against protestors of their projects. Two women, one of which was pregnant were drug from their homes and beaten for speaking out against the Enron project in public hearing. AES sued Huntington Beach for imposing the \$2.3 million aesthetics fine. We would like to have them fined double for the trouble they have caused. If Neighborhood Electricity Watch Solution Groups were in place, there would be over 1,000 official docketed papers supporting the fine against AES with an Amicus Curia Brief to assure their retaliatory lawsuit is dismissed.

Intergovernmental organizations:

It is our plan to evolve official consumer consensus in energy agency proceedings on the local, regional, state, federal and global level. This initiative communicates our

proposed intent to develop a new network of electricity consumers for local, regional, state, federal and international intervention entitled 'Neighborhood Electricity Watch Solution Groups or N.E.W.S. GROUPS'. Official mass direct consumer intervention in energy agency proceedings in lieu of existing lobby groups will facilitate the official consumer consensus needed by consumers to efficiently, timely and non-violently transform the energy industry and assure intergovernmental accountability.

Major groups:

Neighborhood teamwork intervention initiated in communities is the focus of 'Neighborhood Electricity Watch Solution Groups or N.E.W.S. Groups'. With mass direct consumer intervention allied on an international scale primarily through the Internet where possible to save money and time, consumers will be empowered to effect constructive healthy and lasting change. Our initiative is similar to the Neighborhood Crime Watch program that reduced the threat of crime in American neighborhoods through grassroots neighborhood cooperation the past two decades. Specific activities will include monitoring and formal intervention in government energy agency proceedings that manage the electricity market, related technology development and renewable energy deployment funding. The California Public Utilities Commission staff continually reminded me the past three years that consensus rules in Rulemakings. Consumer consensus will economically and efficiently facilitate needed transformation in the energy industry resulting in a competitive renewable self-generation agenda. This is a task governments have struggled with unsuccessfully for over two decades.

Official, mass direct consumer consensus in energy agency proceedings will radically and timely transform electricity industry decisions. Such empowerment has the potential to be far more influential than any political administration or government or non-profit group organization. N.E.W.S. Groups is a concept based on Neighborhood Crime Watch groups. It is a dynamic model that can be adapted to a variety of types of neighborhoods and governments worldwide to assure energy agency decisions are more humane, sustainable and based on consumer needs and interests in lieu of large multinational energy conglomerates that have no alliances to any nation or persons. These blind outdated money machines are often pampered by state and federal governments as they rapidly destroy not only the local environment with associated genocide in undeveloped nations, and in the United States with the recent attack upon the New York World Trade Center, but themselves. They exist in an unstable oversized volatile condition that totally reduces their reliability for investment, business or humane sustainable development. Enron Corporation proved this point most clearly. Arthur Anderson has been the accounting firm for California energy agencies for twenty years. A dysfunctional global energy industry has begun to collapse upon itself. BP Amoco [British Petroleum] has fraudulently dominated U.N. Workshops for the

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World Summit on Sustainable Development in the United States and throughout the world allegedly criticizing the Bush administration. The United States delegation to the U.N. Summit is certainly to be criticized for their unconstitutional pre-summit demands upon the U.N. World Summit for Sustainable Development. However, BP Amoco is their partner in crime.

BP Amoco is presently, preparing to increase drilling for oil and gas in Alaska against consumer and environmentalist outcries. Americans seek autonomy from fossil fuel dependency, now. Further, the entire oil industry insists on being absolved of their antitrust abuses and resist being tried for related war crimes in the world. What would we do to Bill Gates and Microsoft if they committed genocide to further their monopoly? If we saw any glimmer of war prevention in either the Bush Administration or BP Amoco's spending strategy, there may be some rationale for considering some of their demands and actions. But, under the circumstances they have committed crime just in their negligent lack of appropriate and responsible war prevention measures, and their fraudulent misrepresentations. Lord Brown, CEO of British Petroleum claims BP's agenda is Beyond Petroleum. Their behavior demonstrates a goal more aptly classified as Bad Policy in lieu of Beyond Petroleum. BP Amoco has brutally taken over 70% of the PV manufacturing worldwide with illegal oppressive litigation since Amoco's inhumane takeover of the Solarex Corporation in 1984. Their propaganda has developed a 'green' following similar to a guru fan club. Alleged green activists look down on anyone who speaks against BP Amoco. They are either extremely naïve, in denial or paid to support this tyranny.

The Solar Development Cooperative as a small start-up business in 1994 published our 15-year \$4 billion business plan shortly after discovering the 30,000 SF building-integrated photovoltaic roof that graces the Intercultural Center at Georgetown University in Washington, DC. Our business plan calls for installation of 200,000 200 SF (2 kWp @ 10 Watts SF) residential BI-PV systems at \$10,000 per unit generating \$2 billion of BI-PV or building-integrated photovoltaic product commerce producing 18 thousand Gigawatts hours (GWh) of electricity in 30 years @ \$.12 kWh equaling around \$2.16B in replaced electric rates. Divided by 200,000 this is an estimated value of \$10,800 per unit. These figures do not address consideration for any increases in electricity rates and does not include the cost of externalities related to the present forms of electricity generation. There is no need for new infrastructure to deploy building-integrated photovoltaics [BI-PV]. *Its use will reduce consumer dependency on Utility paraphernalia, and blight while increasing local autonomy and national security exponentially.*

{2 kWp X 5 sun hrs day X 300 days=3 MWh year X 30 yrs=90 MWh X 200,000 homes =18,000 GWh X \$.12 kWh=\$2.16 B associated rates or \$10,800 unit}

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The second portion of our \$4 B business plan calls for the installation of 2,000 20,000 SF (300 kWp @ 15 WSF) commercial BI-PV systems generating \$2 billion of product commerce @ \$3.30 Watt installed generating 27,000 GWh in 30 years or \$2.7B rates replacing \$1.35 M per unit in electricity bills. {20,000 SF X 15 WSF =300 kWp X 5 Sun hrs =1.5 MWh day X 300 = 450 MWh year X 30 yrs =13.5 GWh X 2,000 systems = 27,000 GWh @ \$10 MWh = \$2.7 B or \$1.35 M per unit.}

The California State Photovoltaics Consultant Report was published in 1978 by the California Energy Commission. It was written by the Jet Propulsion Laboratory, and interviewed eight photovoltaic manufacturing companies in California in operation at that time. Only one of these companies now remains in tact. Arco Solar was the largest and most innovative PV company in 1978 and was selling PV for \$9 to \$11 watt at that time. Amoco-Enron sued Arco Solar out of business 1988 to 1991. JPL forecast a price for PV of fifty cents a watt by 1986. PV is still selling wholesale \$3 to \$5 watt and \$7 to \$14 watt installed. 95% of the photovoltaic manufacturing patents in the world and related manufacturing are owned and managed by oil cartels with BP Amoco owning 70%.

Even with 70% ownership of PV manufacturing worldwide, BP Amoco announced a meager \$1 billion by 2010 PV business plan in a Global Climate seminar held by the California Energy Commission December 1999. BP Solar already had a five-year contract with the City of Los Angeles, and another contract to provide PV for the 2000 Olympics at that time. That is already \$1B of business before 2000. Thus, they were stating at this meeting that their plan is and was to sit on the natural growth of the PV industry in the mainstream market while taking credit for what little solar electricity there is in the world. The CEC published the Energy Technology Status Report in 1996 disputing their 1978 document claiming PV is no longer affordable or market ready. A trillion dollar silicon computer industry has evolved since the 1978 report claiming PV was market ready and affordable.

Key words to remember are government collusion, antitrust abuses and price fixing in contrast to livable cities, clean air and safer commerce.

Enron dominated the California Public Utilities Commission Rulemakings on distributed generation from 1998 until their bankruptcy in 2001. As a \$101 billion energy cartel, the CPUC provided consideration for antitrust protection from the Utilities within the CPUC Rulemakings, but the CPUC attempted to suppress my request for antitrust protection from Amoco, Enron and British Petroleum. They waited ten months to file a ruling stating they allegedly don't regulate oil cartels and thus could not address the antitrust issues I raised. In the meanwhile BP Amoco took over Arco and related documents were shredded. CPUC code mandates they regulate all entities that are in the business of generating, distributing and/or selling electricity and

related services. N.E.W.S. Groups will evolve official consumer consensus in energy agency proceedings as their individual docketed comments unite to contest these abuses of antitrust laws, fraud tort laws, and their rights to safe, clean autonomous self-generation renewable electricity. With consumer consensus, where ignored by energy agencies, we can collectively file formal complaints in other state and federal jurisdictions like the U.S. Department of Justice or United States Supreme Court.

BP Amoco has exercised an extremely oppressive control of not only the photovoltaics industry, but seminars for the U.N. Summit allegedly funded by small grass roots groups in the United States and around the world. At a meeting I attended last Saturday in Santa Monica, California, a representative for BP Amoco was allowed to advertise their company's alleged renewable energy agenda for nearly a half hour in a very time sensitive seminar exploring U.N. Summit for Sustainable Development issues. Her talk was followed by a presentation from a quasi-governmental Air Quality agency praising Lord Brown at BP for their alleged Beyond Petroleum agenda. The moderators of this propaganda strongly suppressed any cooperative discussion of the real status of BP Amoco's oppressive role in renewable energy deployment. The seminar workshop was literally a two-hour ad for British Petroleum Amoco. It seems they have plenty of money to advertise their products and activities elsewhere and should not be invited or allowed to dominate U.N. Summit workshops with propaganda. If BP Amoco were truly concerned at all about appearances and attempting to look serious about renewable energy they would have a \$10 B of PV by 2010 goal. If they were truly in the PV business, they would have \$50 B of PV commerce by 2010 as their goal.

The tendency for oil cartels to be the focus of Major Groups at United Nations Summits and in related decision-making events is an issue that greatly needs to be addressed at the United Nations World Summit on Sustainable Development. Do not provide any forums or funding for corporate participation, and focus on small competitive healthy market participants. N.E.W.S. Groups can help to organize a global consumer efforts from neighborhoods to mitigate antitrust abuses furthered by BP Amoco, Enron, Texaco, Shell Solar and Mobil Oil that have been radically suppressing PV deployment from the mainstream market for over twenty years. United Nations formal recognition of the need and endorsement of viable programs like N.E.W.S. Groups to facilitate a small business consumer focus will dramatically increase the likelihood of accomplishing Agenda 21 goals. It takes a little bit more organizational effort and a few thousand more stamps. I would like to share with you one of the reasons it is so important to have large groups of small businesses and consumers the focus of United Nations partnerships in lieu of a few large corporations.

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On March 17, 1999, I filed official Comments before the California Public Utilities Commission Rulemaking on Distributed Generation 98-12-025 requesting an antitrust investigation of Amoco, Enron and British Petroleum's oppressive takeover of the PV industry since 1984 and their subsequent abusive litigation against Arco Solar, Advanced PV Systems and United Solar. Two weeks after I filed this paper, BP Amoco took over the entire Arco Corporation. The takeover was not approved by BP Amoco's board for over a year, not until March 31, 2000. They had sued Arco Solar out of business from 1988 to 1991.

The related U.S. Federal Digest reference is available. April 1999, BP Amoco also gained an illegal majority ownership of the Alaskan pipeline in that takeover. The United States Federal Trade Commission attempted to stop the illegal takeover of Arco in 1999 because the merger facilitated an illegal majority ownership of the Alaskan pipeline by BP Amoco. The FTC allegedly could not stop the merger. The CPUC claimed they could not pursue our request for antitrust investigation because they allegedly do not regulate oil cartels. The CPUC is, by statute, charged with the responsibility to regulate any business or organization that produces, distributes or sells electricity or related services. BP does not equate Beyond Petroleum as Lord Brown claims. BP equates to Bad Policy around the world.

As the bully on the block, BP Amoco perpetuates oppressive domination of the PV industry by oil interests. Shell Oil recently took control of Siemens Solar in California that was originally the Arco Solar patents. Five oil cartels have illegally taken over 95% of the PV manufacturing worldwide. N.E.W.S. Groups will circumvent the BP Amoco propaganda now dominating the PV industry and related world commerce with ongoing consumer education and exchange. These consumers will then be empowered to individually and officially intervene in local, state, national and international energy agency proceedings and legal proceedings to eradicate the poverty and destruction now perpetuated by the domination of corrupt energy cartels in the tremendous vacuum of commerce perpetuated by the energy industry. This vacuum of commerce is presently our foe because it is being misused. With official consumer consensus dominating the global marketplace, the vacuum of commerce will become our strongest tool toward realizing the important goals of Agenda 21 at the United Nations World Summit on Sustainable Development within the next two decades. There is no need to wait to evolve humane commerce in modern society, but there are millions of reasons not to wait.

A primary group that could successfully, proportionately and timely achieve the needed changes redirecting electricity commerce toward competitive Sustainable Development is a large mass coalition of existing and potential electricity consumers united through an organization and website to officially intervene in energy agency proceedings independent of any other NGO or government. N.E.W.S. Groups will

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inform consumers with the facts and transform the electricity industry by official individual docketed comments within local, regional, state, federal and international energy agencies and related world congresses and summits through a network of local grassroots partnerships. This major group will fluctuate from ten local neighborhood members to over a million members worldwide by this time next year. N.E.W.S. Groups will effect change on the local, regional, state, federal and international level through a dynamic support system. This alliance is the medicine needed to facilitate change.

One of the most challenging things I found in the process of energy agency intervention is the hazing, harassment and intimidation by government staff and oil cartel participants. Even the alleged green advocates that are paid \$100 to \$350 an hour or more for their input and consulting join in the fray to discourage serious consumer advocacy within the energy agency events. Filings contesting oil cartel domination or payment of renewable energy incentives or infrastructure incentives were often fragmented and /or shelved. Our documents disappeared from the master files of the proceedings kept in the dockets library. Utility staff were generally personable and polite in their conversations, but they made brutal attacks upon my comments within Response Comments, Motions to Strike and Protests. They often informally censored my input by not acknowledging my input to the process. Presently, the Utilities have united in California to ask for a rehearing in relation to the new net metering laws that have increased this incentive to one-megawatt peak systems from ten-kilowatt peak systems. Peer support will reduce the tendency to attempt to block, intimidate and/or destroy consumer input in energy agency proceedings. Cooperative exchange with a common goal will help to communicate the diverse conditions we live in as we relate the similar challenges we face in our community based attempts to transform the energy industry. It is often difficult to understand and build the trusting relationships needed to empower consumer groups across national borders. N.E.W.S. Groups will facilitate that kind of cooperation and alliance.

Leading Partner:

The Solar Development Cooperative is the primary organizing force that conceived the N.E.W.S. Groups organization with the intent to facilitate mass official consumer intervention through an international coalition and network of consumers linked by one common website with neighborhood groups around the world. As the Founder & CEO of SDC since 1992, Eileen M. Smith, M.Arch. has written a book entitled: "Electricity® Beyond the Curve of Deregulation featuring Neighborhood Electricity Watch Solution Groups and the Ethos of Commerce".

The first of this five-volume set is ready for press. Volume II is a workbook for Neighborhood Electricity Watch Solution Groups or N.E.W.S. Groups

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Main objectives of the Partnership/Initiative

Please provide a brief description:

OBJECTIVE I: IMPROVED COMMUNICATIONS LOCALLY & GLOBALLY

The Georgetown University Intercultural Center in Washington, DC clearly illustrates the lack of appropriate communication related to Sustainable Development around the world. This building houses the oldest Foreign Service Training Center in the United States. The first 30,000 SF building-integrated photovoltaic roof was installed on this structure in the dense urban heart of Washington, DC in 1984. It generates an average of one Megawatt hour of pollution-free electricity everyday in the capital of the most democratic nation in the world. Yet, 90% of the people who work in this building do not know the roof generates electricity. It is a government-funded demonstration that is a secret. As far as the record shows, President Clinton, Vice President Gore or Senator Hilary Clinton never mentioned this building. President Clinton did not mention it during the 1995 Solar Christmas Tree news story about the solar panels spread out on the lawn of the White House to light the Christmas tree. This building houses the Intercultural Center of Georgetown University the alma mater where Bill and Hilary Clinton met. The most recent news is that Michael Eisner, CEO of Disneyland who is an alumni of Georgetown U, and on the planning board has gotten Dean Stearns from the Yale School of Architecture appointed to the advisory board and they are lobbying to quietly remove this important solar array that generates over a Megawatt of pollution-free electricity a day on the average to replace over \$45,000 of remote electricity demand a year. We have a letter for consumers to send to Michael Eisner with a copy to many of the Disneyland characters, the California and United States Congress as well as President Bush and other important political and activist personalities including Erin Brockovitch and Clint Eastwood who fought to get paid for his renewable energy generation over and above the net metering incentive . These people represent the sentiment of the true American. 3rd World Nations may come to understand to claim the problem is America is a good excuse to divert attention away from the real problems like BP Amoco that, no doubt, intends to dominate the U.N. Summit.

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British Petroleum [BP] did dominate the United Nations Summit, and they continue to claim they are *Beyond Petroleum* while increasing their domination of American energy commerce and oil assets. With the assets they have acquired previous to Energy Crisis 2000, and the lack of PV production, it might be more accurate to say BP is *Beyond Photovoltaics*. Bottom-line is that oil cartels have a legal *conflict of interest* with BI-PV deployment and where properly adjudicated consumers could ban oil cartel ownership and control of PV technology patents.

It would be easier to facilitate the needed enforcement of commerce laws where consumers unite with mass intervention in energy agency proceedings. Mass consumer monitoring and intervention in public hearings would increase recognition and use of the highly suppressed renewable BI-PV market and it would facilitate alternative deployment patterns via cooperative local community commerce²³¹ and increased energy agency support and respect. Just today, I shared THE S.T.O.M.P. ACT for Solar Technologies of Mass Protection with a housewife and employee at my alma mater. The family has been actively seeking solar energy resources for their home. There are many suppressed BI-PV consumers trying to figure out how to access products and service for BI-PV solar systems.

It is not appropriate to provide government subsidies that increase fossil fuel dependency or perpetuate the dead-end double bind of oil cartel control of renewable technology no matter how you look at it or what side of the map or partisan persuasion you are on. Even the Rockefeller Foundation has been highly critical of the slow transition to renewable technology despite their significant hand in perpetuating the problem. Interestingly, the one paper listed by the Foundation on solar energy was written summer of 2003 by an employee of Shell Solar at the elite Bellagio in Italy. It is entitled, "*Selling Solar; The Lessons for Technology Diffusion and Sustainability*"²³². From my experience in the field, where a prominent company like Shell Solar was seriously deploying BI-PV technology I don't see how they couldn't sell it. People are literally begging for solar energy. However, where the retail price of BI-PV is at least 500% more than the cost of production, where there are no design standards with most systems are

²³¹ Hunter, Kenneth, W., *Functions of Sustainable Community Systems for Transformation*, 1999, pgs. 9-14
<http://ceres.ca.gov/tcsf/pathways/chapter3.html#8>

²³² Miller, Damian R., [BV Shell Solar, Amsterdam, Netherlands], *Selling Solar; The Lessons for Technology Diffusion and Sustainability*, Rockefeller Foundation, Bellagio Program, June 17 to July 15, 2003 <http://www.rockfound.org/display.asp?context=4&collection=12&Preview=0&ARCurrent=1>

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unsightly mounted on poles bolted to the roof and where there is no service industry to maintain solar systems including training for contractors and architects; most consumers don't have the resources to develop BI-PV services on their own. These are just some of the reasons that consumers need to unite and to begin to monitor and officially intervene in energy agency proceedings using the new Internet tools.

California Governor Arnold Schwarzenegger appears to be the politician that is on the right track with his recent proposal of a *Solar Roofs Initiative* (SRI) to install one million solar roofs in sunny California by 2017. Where his wife Maria Shriver is an *alumnus* of Georgetown University maybe we will see more of the 30,000 SF BI-PV roof in the news during the ten years of the SRI.

It doesn't matter what party openly advocates or installs BI-PV. What matters is that BI-PV is the most economic, reliable, aesthetic, easy-to-install and easy-to-maintain renewable demand-site technology in existence. It is noise-free, fuel-free, pollution-free and uses water only for occasional cleaning. www.geocities.com/VOTESOLAR2004

Similar to their unrealistic expectations in facilitating or administering deregulation, the CPUC, CEC, utilities and energy cartels expected me to immediately understand the existing language of energy agency proceedings. They have no intervention orientation, and their consumer manual is not user-friendly. *Power Failure*²³³ the book where Sherron Watkins' shares the inside story of Enron and her famous e-mail sounding the alarm, she clearly indicates, energy cartels and their cohorts at the utilities and in energy agency staff are out of touch with the influence they are imposing on the world and the viability of new energy technologies. Four days after BP Amoco took over the Arco Corporation, they took Enron's 50% of Solarex for \$50 M.

During the CPUC Systems Planning and Operations Management workshops on the UDC's role in DG the three primary utilities in California took turns hosting the workshops. I didn't have a facility to offer for a meeting with hardly the resources to keep a roof over my head due to the CPUC no pay of \$42,000 in 2000. Thus, I offered to host a meeting at Children's Hospital in LA where I had worked when I first moved to California in 1996. Fifty percent of the children who are patients at LA Children's Hospital are ill with cancer due in part to their daily exposure to inner-city pollution and stress.

²³³Watkins, Sherron, Mimi Swartz, *Power Failure, The Inside Story of the Collapse of Enron*, 2003

They opted to have the meeting at Fontana. On the day I arrived by bus for the meeting it looked like there was a fire. The smoke in the air was so thick you could move it with your hand. The bus driver said, “*Naw, it is just a bad smog day.*” Much of the inner city pollution is simply not necessary, today because there are viable and affordable alternatives. The problem is not the technology or price, but it lies in our ability or inability to recognize and transform the forces evolving energy commerce. Blaming the persona of the massive *vacuum of energy commerce* on a party or politician or government staff is like spitting on a forest fire. Millions of people strongly agree that the inhumane assault upon human life (perpetuated on a daily basis in energy agency proceedings) must stop. For that to happen, there must be a force outside the industry significant enough to exert an influence on energy agency proceedings over time. Simply having thousands of consumers regularly monitor energy agency proceedings will begin to shift commerce and reduce industry crime just like Neighborhood Crime Watch Groups dramatically reduced local crime.

It is not a political problem as much as it is a phenomenological and organizational management issue. California is recognized around the world as the most progressive renewable energy market in the world with allegedly the least polluting electricity industry in the United States. However, the state is also notorious for the highest pollution rates in the nation. What is that all about? Something is not working and it is not me or BI-PV. Consumers must involve themselves in the democratic process of energy industry administration. Community must support renewable commerce structured around small business and cooperatives. Large monopoly control of electricity commerce is a threat to human existence.

There are technologies in existence today that could dramatically reduce pollution within major urban and rural environments with dramatic improvements even within this decade. As I mentioned in Chapter 13, it was quite curious that even large manufacturing multinational conglomerates like Kyocera appeared lost when it came to understanding how to use their resources to consequently effect administrative proceedings. They appeared to be acting highly irrational because the characteristics of the situation were not being realistically considered. Al Panton expected me to represent the needs of BI-PV consumers and initiate the needed massive energy industry transformation by myself with no funding or formal support. Why? Well, maybe he thought it could be an unpopular business risk to personally testify on behalf of renewable DG consumers. I felt like Bambi being fed to Tyrannosaurus Rex. I wondered if he really had that much faith in my being superhuman or if on some level he knew what was going on and thought even if they devoured me that there may be some residue of progress thereby.

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Could it be that Enron was brought down not just by their own corruption, but in part for their unpublicized requests for antitrust protection from utilities and their demand to evolve *competitive distribution* of electricity in CPUC energy agency proceedings on DG? Likely! AES had announced their intent to set India straight on behalf of Enron. Enron prosecutions should not veil the deeper source of stagnate crime in the alarming arena of energy commerce. California's claim that they were establishing a competitive market via deregulation is already a red flag. How can you establish a competitive market in a monopoly-dominated industry with seasoned pros where you introduce small business amateurs and less regulation? Strategic regulation is needed when moving monopolies to a competitive market. One will never evolve competitive commerce without strategic publicized regulation.

The risks of intervention whether by a large oil cartel or an individual consumer furthering their rights to *build, own* and *operate* a BI-PV solar system on their property with interconnection to the grid would not be nearly so risky if numerous consumers monitored and participated in energy agency proceedings on a regular basis. What is in it for Americans? Special financing programs to *build, own and operate* BI-PV in third world nations is called B.O.O. Financing. So, how about a little B.O.O. for Americans, too!

One of the things that continued to drive my ambition when no funding or encouragement seemed available to Americans in solar was the 134 soldiers pictured on the front of the USA Today that were killed in Iraq during the month of April 2004. There have been over 1,000 American service people killed in Iraq. As I am completing the editing for this book on January 26, 2005 thirty marines were killed in Iraq when a helicopter crashed. Thousands of innocent Iraqi citizens have been killed as well. Other events that encouraged me was the 3,000 people listed at the Eagle Rock Reservation 9|11|01 Memorial in West Orange, New Jersey. Then there were the 250 or more youngsters diagnosed as fatally ill with cancer at LA Children's Hospital due to inner city pollution when I worked there as an employee in 1997. Then, there were the less familiar fatalities from genocide around the world including Azerbaijan and the ongoing war and suicide bombings in Indonesia, Sudan and the Middle East since World War II allegedly ended. And, of course the World Wars are a factor. Lt. Colonel Richard T. Headrick whom you met in Section II of this book, flew 96 successful missions over Europe destroying transportation routes to stop the killing of millions of people by Hitler and his regime. He used his expertise in aerial geometry first to keep he and his associates safe, and later to design the Solar-Voltaic Dome™ patented in 1996 as the most efficient architectural solar configuration in existence, today. These are the things that inspire me in addition to the zillions of wires that impede upon my view

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of the horizon around the world. These wires did not exist one hundred and fifty years ago. One of my goals is to develop and evolve community design standards for energy related infrastructure and power plants so that by the next turn of the century most horizons around the world are wireless, again. We cannot only progress to mass consumer markets, but we must progress to completely evolved and humane solutions for those markets.

In addition to unnecessary tragedies and blight that impede our daily lives, there are the thousands of people from every walk of life, every socio-economic status and every race, age and nation that have asked me urgently *why we don't use more solar electricity*.

Organizing Neighborhood Energy Watch Solution Groups or N.E.W.S. Groups is not the difficult part; the hard part is successfully helping consumers realize they are truly a vital part of the solution. In fact, they appear to be the only potential force to evolve this transformation short of global disaster and another world war. If it sounds too easy to be true why make doing the right thing so difficult? Just do it and get on with life. It is a solution that can be tested with very little negative consequences. Often, it is much easier to do the right thing than it is to do the wrong thing. Remember Robert J. Ringer's graph on concentricity in *Million Dollar Habits* that I shared with you in Chapter 11 that I re-titled the *graph of the wrath of God*. Look very closely at the problem before discounting the role of consumers in the solution. What other possibilities are on the horizon? How risky is the existing *experiment of modern energy commerce*? Consumer monitoring and intervention of energy agency proceedings could easily yield immediate benefits for the global marketplace while increasing consumer awareness and thereby a safer and more secure electricity industry.

The beauty of this experiment is that it is nearly impossible for it to have severe ill effects. Coaching consumers on how to monitor and intervene in energy agency proceedings will naturally empower consumers and will help them to become more responsible critics of the energy industry, government and their investments.

The media may need a little extra coaxing to understand that national and international energy commerce is always a *local* issue on some level. The media needs to begin to cover energy agency proceedings on a regular basis for the first time in history. If we can have a sports reporter, we can have an energy agency reporter and related Earth Data reports in the daily news. The most critical action consumers must make is to take control of their decision to be involved in this *great experiment*. It was the pioneering

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spirit of our American ancestors that brought us the luxuries we enjoy today. Numerous related threats to quality humane existence now compel consumers to use our luxuries far more responsibly. Spend several hours a week reading energy agency reports on the Internet or from printouts. Discuss what you find with other members of your N.E.W.S. Group. Some consumers may be shocked into action and become officially involved in energy agency proceedings because of the blatant crime and malfeasance they will find. It is highly recommended that no less than five consumers pursue an issue. And, I would recommend at least ten or more, and if possible over 100. File similar documents to assure the issue is strongly represented by consumers. Consumer consensus is the goal in any issue that deserves your time and official comments.

Most energy agency proceedings must now post documents filed in their proceedings on the Internet. Comments can now be officially served via e-mail. This saves participants nearly \$1,000 a document. It will cost less than \$50 a document to file and serve official comments. Some agencies like the California Energy Commission actually allow participants to file papers by e-mail with one hard copy sent in follow-up in lieu of the previous requirement to mail thirteen copies every time you file a document. This means it costs less than \$15 even if you send your comments in overnight mail. I generally file mine in person to be sure. In most proceedings, one need only make the required copies for official docketing and for postage or transportation to timely and officially docket the documents before the correct agency. But, be sure to follow-up.

Volume II of *ElectriCity A Workbook to Empower Consumer Consensus in Energy Agency Proceedings* will provide consumers detailed information about each state's energy agencies and their filing requirements. We have planned a yearly conference for consumers to discuss their activities and progress called *Early Earth Day . . . before it's too late!* The conference is to be held March 1 to the 7th every year. A website needs to be developed to better facilitate consumer monitoring of energy agency proceedings, official intervention and networking with fellow consumers locally, regionally, statewide, nationally and internationally. It is very difficult to understand the elements affecting the local energy market unless we make contact with other energy markets. You will find the problems are similar around the world. The glory is you will also find consumers with very similar interests as yours, and thereby consensus will be reinforced.

Hopefully, this book has illustrated for you the important fact that no consumer or small business owner should be forced to be involved in an energy agency proceeding alone without other consumers or businesses

supporting their intervention.²³⁴ How I survived, God only knows. I have mentioned a few of the angels that bravely stood by me in the credits of this book. The unintended pioneer is often the most determined. Curiosity and shock tend to elevate one's motivation.

Why hasn't anyone done this before? It is important to remember that 1999 was the first time in world history that energy agency proceedings allowed participants to officially serve their documents via e-mail. California was a pioneer in this regard. Without e-mail service I would not have been able to intervene. It was about the same time, that energy agencies were first required to post documents officially filed before proceedings on the Internet. Until reading this book, my guess is that most consumers will not know that energy agency decisions are made through public hearings and proceedings or how vital those hearings impact energy legislation. I didn't know until May 1998.

For over a century, utilities, energy cartels and government staff enjoyed the venue of energy agency proceedings with limited input from consumers or competing business entities. They are used to working together and although there is ongoing debate among the utilities and energy cartels and regulatory agencies, I think this book clearly reveals that they function as comrades and partners. However, the underlying motivation of their alliance has dramatically changed. Modern electricity commerce perpetuated by faceless multinational conglomerates has no loyalties to anyone or anything. This force will naturally resist ongoing intervention by consumers furthering the needs of humanity because this *vacuum of commerce* is presently directed by the basic need to perpetuate dividends not electricity. Consumers and investors need to collectively recognize their past, present and future roles in perpetuating the condition of electricity commerce. The goal of this book is to provide rational avenues wherein mainstream consumers and investors may effectively monitor and intervene to transform energy commerce via the administrative process using e-mail and the Internet.

The tremendous need to redirect the flow of commerce like engineering a new artery from a river is one reason I have suggested a separate regulatory agency for demand-site renewable technology. The agency would serve as a liaison between the building industry, the traditional electricity industry, the community and consumers. It would focus exclusively on DG renewable consumer needs than the needs of

²³⁴ Putnam, Robert D., *Bowling Alone, The Collapse and Revival of American Community*, Simon & Schuster 2000, See Chapter 9 *Against the Tide? Small Groups, Social Movements, and the Net*, pgs 148-180

traditional energy commerce. Priority consideration would be provided to renewable DG technology certification and approval, system design standards, balance of system components, installation and maintenance services. Present energy agencies have limited interest in these matters because they are in direct conflict with the utilities, energy cartels and investors they have traditionally regulated. When I raised the issue of neighborhood design standards in workshops related to systems planning and operations management, it was so quiet you could hear a pin drop until someone steered the conversation back to the familiar issue of *gas flicker*. The truth is a photovoltaic generator is not nearly as complicated as many of the electricity generation technologies being used. Thus, consumers don't have to be rocket scientists to *build own and operate a BI-PV system* or intervene on behalf of the industry in energy agency proceedings. A demand-site renewable technology agency would allow BI-PV DG to evolve rapidly. Existing energy agencies would then be forced to more seriously consider their role in DG. Presently, energy agencies suppress renewable energy DG because consumers are uninformed and thereby unrealistic. They depend upon old market pricing signals.

USING COOPERATIVES TO DEPLOY SUPPRESSED TECHNOLOGIES

While we are becoming familiar with energy agency proceedings, I want to share with you a little secret I discovered. Although oil cartels own 95% of the patents for photovoltaic technology and related manufacturing processes via illegal tactics, individuals and groups like co-operatives can manufacture patented products for their own use as long as they do not sell them. Where co-operatives retain ownership and lease roofs, municipal utilities can be a valuable step toward community electricity autonomy. The primary reason my company was named the Solar Development *Cooperative* was the special provisions legislated in Energy Act 1992 for energy cooperatives to produce electricity technology and provide electricity to members of their group. My intent has always been to design, develop and manufacture photovoltaic building materials via co-operatives as autonomous community based entities. Co-operatives provide a rational agenda to infuse renewable demand-site technologies into local commerce.

PUBLIC UTILITIES CODE²³⁵ SECTION 2776-2778

2776. As used in this chapter, the term "electrical cooperative" means any private corporation or association organized for the

²³⁵ California Public Utilities Code Section 2776-2778; Cooperatives;
www.leginfo.ca.gov/cgi-bin/waisgate?WAISdocID=2733912763+1+0+0&WAIAction=retrieve

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purposes of transmitting or distributing electricity exclusively to its stockholders or members at cost.

2777. The commission shall have no authority to establish rates or regulate the borrowing of money, the issuance of evidences of indebtedness, or the sale, lease, assignment, mortgage, or other disposal or encumbrance of the property of any electrical cooperative.

2778. Except as otherwise specified in this chapter, every electrical cooperative is subject to Part 1 (commencing with Section 201).

*Utility cooperatives provide utilities such as communication services, electricity, and water to their members.*²³⁶

It was amazing to learn that utilities and energy cartels are generally private for-profit corporations because of the degree to which they depend upon government agencies for funding, management support and regulation. They enjoy many benefits of a cooperative support structure, while exploiting for-profit benefits of commerce. This unconstitutional privilege really should be prosecuted. Either be a private for-profit business with related costs, challenges and privileges of doing business as such or admit you are really financially structured more like a cooperative or non-profit agency reducing your right to compete and evolve mass profits.

Certainly, any business endeavor wants to evolve enough services and profits to grow their business. Hospitals, nursing homes, educational institutions and numerous humanitarian non-profits evolve respectable moneymaking activities. The Smithsonian does not charge an entry fee, but their net assets for 2003 were \$1.735 billion for the year.²³⁷ As you become oriented to energy agency proceedings groups of consumers could form a cooperative and begin producing photovoltaic products for their neighborhood or community at cost. Form a trust and donate 25% of your production to third world nations. Make the manufacturing facility a walk-through museum to gain educate the community and to serve as a tourist attraction. At first to mitigate the antitrust suppression of PV by a few

²³⁶ *What is a Co-op?* Center for Cooperatives, University of California 2004
www.cooperatives.ucdavis.edu and centerforcoops@ucdavis.edu 1-800-994-8849

²³⁷ *Smithsonian Financial Report Fiscal Year 2003*, pg 21
<http://www.si.edu/opa/annualrpts/03report/Invest.pdf>

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companies worldwide, don't sell PV products produced by the co-operative instead local co-operatives lease rooftops to generate or manage electricity.

The GNP will not collapse as we wean ourselves from fossil fuel and remote-site dependency. In fact it will miraculously stabilize the GNP as human energy is redirected toward more humane endeavors. The traditional energy industry will not evolve this transformation for consumers no matter how many times British Petroleum runs their ad claiming BP stands for *Beyond Petroleum*. Consumers are the energy industry. The alleged influence of energy cartels is one of the most powerful bits of deceit and suppression in the world, today. They are nothing without consumers and investors. I have included the following list for review to deepen your understanding of the modern vacuum of energy commerce:

- (1) A few oil cartels own 95% of PV manufacturing worldwide. Solution: Manufacture manufacturing equipment in cooperatives.
- (2) A stable supply of refined silicon and other raw materials are needed to produce Photovoltaics.
- (3) AstroPower, Inc. recycles computer silicon materials to economically produce PV modules.
- (4) The most economic raw material being *PV-grade silicon* is not being produced anywhere in the world, today.
- (5) One of your first transformational team efforts may be to initiate the production of *PV-grade* silicon.
- (6) Initiate a co-operative BI-PV manufacturing museum.
- (7) Production of *balance of system components* may lag with a dramatic increase in PV production. Solution: Develop multifaceted manufacturing cooperatives to produce products like quality inverters.
- (8) In 1978, the JPL forecast a price of fifty cents a watt for PV production by 1986. A trillion dollar computer-silicon industry and a trillion dollar satellite industry have come into existence since then. Thus, PV should be less than fifty cents a watt. The true price of PV manufacturing is unknown. An independent consumer group needs to clarify the price of PV production.
- (9) Chapter 17 the *California State PV Consultants Report 1978* written by the Jet Propulsion Laboratory shows energy agency staff ignore facts

and misrepresent the price and market readiness of renewable technologies like BI-PV in decision-making activities. The *1996 Energy Technology Status Report* (ETSR) published by the CEC just as California attempted to deregulate energy commerce conveniently refutes the status of PV as a market ready viable technology.

- (10) Review the reason: Natural Gas was their goal. Enron, Kenneth Lay and gas pipelines are a part of the formula along with the alleged *clean coal* initiative. In 1994, California's Public Employee Retirement Fund invested \$1 billion in the Enron Corporation. By 1997, Enron was contracted to provide electricity for the University of California Schools until 2002. Who is providing UC School's electricity, today? Enron!?
- (11) Chapter 19 reveals documents are not always appropriately distributed to decision-makers. The first year we filed papers, they continually disappeared from docket files. Follow-up.
- (12) Where consumers deny and fragment their consequential role in energy agency proceedings, the energy industry will as well.
- (13) Chapter 15 shared with you the perilous allure of *intervener compensation* and the extreme misappropriations of \$100 to \$350 an hour for *hardship compensation* to certain non-profit organizations. We highly recommend *groups of consumers* not pursue such funds because of extorted amounts and the fact that such funds are used to manipulate input and distract.
- (14) The agenda in energy agency proceedings has traditionally been to increase dependency on remote-site fossil fuel, nuclear and large hydro electricity. Energy cartels, utilities and government partners have historically dominated related hearings.
- (15) The media often provides the criminal persona of the *out-of-control energy industry* further leniency to pollute or mismanage hazardous wastes misrepresenting such crimes as status quo.
- (16) The media rarely reports on energy agency proceedings claiming they are too technical, however media routinely makes ongoing editorial comments regarding complex murder cases dramatically influencing public sentiment about related trials. Media agendas need to routinely include energy agency proceedings. Who are the players, what are the issues?

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- (17) Although, I initiated and succeeded in getting Net Metering for renewable energy increased from 10 kWp to 1 MWp in California it is limited to one-tenth of 1% of a utility's aggregate output.
- (18) Testimony by SDG&E in the DG proceedings of Chapter 13 and 14 called Net Metering for renewable technology *free loading* and non-competitive while insisting they be paid *stranded costs* for *lost revenue* for any successful solar system installed.
- (19) Energy agencies are not providing the credits and cash rebates approved and contracted for. How many homeowners could wait three years for \$20,000 owed to us by the government?
- (20) Clint Eastwood had to call a meeting with Governor Davis to be provided his contracted-for PV incentives and rebate for the solar system on his golf course. *Groups of consumers* will protect venerable consumers that are not wealthy celebrities.
- (21) Fossil fuel companies are pirating renewable incentives in administrative proceedings. 46% of California's electricity is produced by gas turbines. If gas companies producing coal cannot afford to deploy *clean coal* with 55% of the market share, then they must be removed from the *least cost* list, today. Either they produce clean gas and *clean coal* or shut them down.
- (22) Governor Arnold Schwarzenegger insists California will have 50% PV by 2050. He has now put into place a strategic plan via his proposed *Solar Roofs Initiative* [SRI] to install one million solar BI-PV roofs by 2017. It must be actively and officially supported in energy agency proceedings by thousands of consumers. Otherwise, he might as well insist he will fly to the moon without a space ship. Leaders cannot evolve the needed changes alone. Consumers must be actively involved in evolving new energy solutions to redirect the massive vacuum of energy commerce.

August 28, 2003 on the front page of the Kansas City Star, "*Key Clean-Air Rule Eased*" to benefit aging factories and refineries." This headline should have read *Key Clean-Air Rule Oppressed by criminal energy cartels that seek to endanger their own health, yours and mine with no benefit to anyone*". Who in the world cares about aging factories or refineries when your loved ones are ill with cancer from the pollution they emit? Whose life is that power plant worth? Please raise your hand. Do I see any volunteers to suffer the consequences of these decisions? I don't see any hands going up. So why and how are we allowing this madness to be perpetuated, and

why is the press erroneously misrepresenting it as the status quo and as ok? What don't we understand? Momentum! What I finally came to understand is that people are not in control of the *vacuum of energy commerce* and this irrational persona is part of the coping mechanism perpetuating the massive *vacuum of energy commerce*. What appears to be a political agenda may in reality be overwhelmed society acting like a drug addict in denial. The goal of this chapter is to put consumers in charge of rational energy commerce, democratically. Own the problem. Don't be consumed by it.

Just knowing that consumers are monitoring energy agency proceedings will dramatically reduce irrational demands and crimes by oil cartels, utilities and insiders regulating energy agency proceedings. Groups of informed consumers will discourage intimidation and harassment that historically plagued venerable individuals forced to intervene.

You may be one of those that insist energy agency documents and proceedings are too technical for them. Certainly some of the matters discussed in energy agency proceedings are technical in nature. Even our electricity bills are made to be overly complicated if that provides you a clue as to why proceedings may be a bit difficult to understand. The thing to remember is that you will readily understand much of what is going on and most of those things that you want to monitor. To officially intervene, one must request permission to intervene as an observer or active participant. Where you become an active participant numerous papers must be timely filed. Attorneys and engineers often present comments and testimony before energy agency proceedings, however Administrative Law Judges that rule on these comments are rarely licensed attorneys or engineers. The most intimidating problem is not the level of technical expertise needed to understand most of the documents filed before proceedings, but the fact that there is so much to read and consider. Abundance in paperwork evolved over the last century at times with the intent to discourage participation of consumers, outsiders and reps for new technologies. A primary complaint of even the mainstream energy cartels and utilities is the overburdened regulatory process. This is why the irrational idea of deregulation to evolve competition was so readily accepted. *Strategic rational regulation* is what is needed. Utilities claimed they perceived no role for utility distribution companies in *distributed generation* claiming there was no demand.

However, those same traditional participants shudder to consider what it will be like when consumer consensus dominates energy agency proceedings. Some will actually hold their heads in their hands and run screaming out the door when confronted with the possibility of a few hundred consumers regularly adding to that large depository of comments and testimony. However, a new genre of commentary from practical

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consumers promises to be the medicine needed to heal and transform our ailing energy market. Profits do not always provide clear signals about the condition of an industry, and neither do *demand and supply* analysis.

Present constituencies are not sufficiently representing consumers and renewable energy technologies in energy agency proceedings. While added complexity and confusion may evolve at first, just like the festering of a healing wound, where successful, the industry will eventually be more simple to accommodate the more complex needs of the market. Commerce will adapt to consumer needs. Those who feared they would lose their job find new opportunities as electricity commerce is transformed because their job will be appropriately phased out to allow new technologies and related industries to evolve. Investors distressed about the potential loss of their retirement funds or their children's college education fund will wisely act in a timely, strategic and rational manner to shift those assets. When consumers are made aware of what is needed, most will not choose to hang on or evolve a dying destructive industry and the inevitable crisis that will surely occur if consumers don't become involved in energy agency proceedings and transformational investing.

I was the only small solar energy business formally involved in DG California energy agency proceedings from 1998 to 2004. California is one of the most progressive states in the nation furthering renewable energy. California consumers are not being timely paid their incentives and they are in a quandary about what to do. Legislation certainly appears to reflect leadership, but there are few that follow that legislation into administrative proceedings. Leaders from the 1970s have been taken over by multinational energy cartels suppressing renewable technology via experts of illusion. Certainly, the fraudulent information in tours at Georgetown is an example. Consumer insight into such tactics will allow needed change.

Chapter 17 clearly reveals the important transformation in the persona of the California energy market from 1978 when JPL wrote the *California Photovoltaics Consultant Report* that interviewed eight PV manufacturers in California stating PV was market ready and affordable and would be fifty cents a watt by 1986 to the 1996 *Energy Technology Status Report* [ETSR] which insisted without a reference or footnote in the entire book that photovoltaics was not market ready or affordable. From the Georgetown University Intercultural Center in Washington, DC to Real Goods, in Ukiah, California (now owned by Idaho Power), fraud and renewable technology suppression is rampant. The primary reason for writing this book is to enlighten consumers about this shocking problem. This is not business as usual, but highly unnatural stagnation instead of appropriate industry evolution. Because the global impact of energy industry is vitally important

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energy matters are a priority security matter for every nation. Energy cartels dominate every nation in the world in some matter. United States consumers are forcefully vilified and mesmerized. It takes only a few years within the global market to see similar tactics used by multinational conglomerates around the world. They have no sovereign loyalties.

“ElectriCity Volume II *A Workbook to Empower Consumer Consensus In Energy Agency Proceedings*” is a companion book to direct consumers as they begin to monitor and intervene in energy agency proceedings in their state using the Internet and e-mail. In addition to evolving consumer consensus, it is my hope that these books will assist consumers in avoiding many of the challenges I encountered, and to build upon my success to remove the veil from electricity commerce. In so doing, it will hopefully allow persons of every nation and culture the autonomy to evolve electricity commerce that is culturally responsive to their highest traditions. Appropriate benign electricity technologies don’t need twenty armed guards manning the visitor’s center of the Department of Energy. Ideally, the atmosphere would be more like that found at the National Arboretum.

An article in the August 28, 2003 Kansas City Star states *“Safety program cut back.”* An Energy Department program established to keep ‘dirty bomb’ nuclear material out of the hands of terrorists is being ended. While we are involved in a war with Iraq? How timely! I saw very little sign in the energy agency proceedings of any ability or intention of government, utilities or oil cartels to change the energy industry any time soon. Certainly the interest is there on every level, but the bottom-line agenda is just keeping up with the existing infrastructure of commerce using the alleged excuse of *least cost and reliable* electricity. The illusions used to justify fossil fuels as a *least cost reliable* source of electricity could be dramatically and consequently challenged by consumers in energy agency proceedings.

August 14, 2003, twenty-two nuclear plants suddenly stopped generation in an hour on the east coast. Ten million consumers were without electricity. Most people understand reliability as being the constant uninterrupted supply of electricity. We need only walk around most any community in this nation to see a massive mess of sagging wires. The thing consumers may not understand is that energy commerce is *out of control*. Utility and oil cartel attorneys love to perpetuate the image that *captured consumers* must not support [be burdened with] legislative or administrative laws that would free them from dependency on private profit-driven utility and energy cartel monopolies. It is difficult to challenge editorial comments when a consumer majority is not present to represent their own sentiments.

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Utilities claim monthly financial statements from captured customers represent consumer 'approval' of remote-site electricity to justify their irrational behavior risking even their own safety and the safety of their families.

Traditional *supply and demand* economics just does not tell the real story of economics in a monopoly-driven government-regulated marketplace. Review George Soros and his *Reflexivity Theory*. The *vacuum of energy commerce* is so powerful that where a renewable BI-PV technology competitive at less than 0.001% of the market would have to increase one million percent to reach 10% of the market. Coal at 55% of the market can reach 100% market share by only doubling its production. Energy Bill 2004 legislated \$200 million a year for *clean coal*. You can join with your friends and associates to intervene in energy agency proceedings and assure this money is appropriately re-appropriated to PV-grade silicon. When PV is less than 10% of the US energy market it will cost less than any fossil, nuclear or large hydro technology to produce while providing numerous *externality benefits* not possible with remote-site fuel-driven fossil, nuclear and large hydro electricity. It won't need government funding to assure reliability. Save the money for space exploration.

We must have a strategic renewable DG regulatory agency established independent of traditional energy agencies that are completely entrenched in fossil fuel, nuclear and large-hydro remote-site electricity. President Bush chose BI-PV for the White House because it is the most reliable, practical, efficient, low-impact high performance affordable electricity generation technology on the market today. Assure consumer access to quality BI-PV products and service in communities via consumer cooperatives that manufacture and service BI-PV on leased rooftops.

With BI-PV there are no squeaky wheels needing oil. There are no moving parts to make noise. There is less need for wires and distribution infrastructure. BI-PV is a demand-site pollution-free technology that does not need nearly as complex a distribution system as remote-site technology, if any. Most of the components are recyclable and they have dual-use characteristics that blend quite well with both the architecture industry and the *peak demand* needs of the electricity industry. These facts have been put on the table again and again, but energy agency decision-makers are rejecting healthy foods for their electronic needs because commerce analysts insist renewable BI-PV energy translates to less energy commerce. They are right. But, that is not bad. It translates to a different kind of

commerce. When you install a solar BI-PV system there is minimal additional cost for thirty to fifty years. Where appropriately manufactured and installed, BI-PV is an aesthetic building component that generates electricity with warranties and a 30 to 50 year life-cycle like most building materials.

In 1995, I developed a marketing program called “*PV for your TV™ Healthfood for our Electronic Pets*” to get the idea of electricity nutrition across to health conscience consumers. Health and beauty products and services in Southern California represent a trillion dollar industry. Then, they breathe the air. Healthy electricity generation decisions will leave more time for tourism, space travel, and electronic advancements. The peace-evolving commerce of BI-PV will wisely replace energy cartel deployment wars and remote-site dependency manipulation.

Most people around the world know this and believe BI-PV is a viable path to follow. Even China the nation most dramatically scathed by outdated fossil, nuclear and large hydro deployment the past decade treats the BI-PV miracle cure as a charity technology not a serious business pursuit because of pressure by entrenched energy cartels.

The idea that cultural transformations must evolve from tragedy is an ancient concept. However, with new forms of communication and spiritual evolution, doomsday concepts are as outdated as many archaic energy technologies. The last decade clearly revealed that today the *vacuum of modern commerce* can and does transform the position and impact of technology nearly overnight. As soon as someone figured out how to implement the Internet, supply and demand arguments insisting it was impossible, not economic or of little interest were moot. How many people use the Internet, today compared to ten years ago. Zero to billions! Someone forgot to do a classic *supply and demand analysis* on that one.

There is no law against purchasing your own *personal generator* (PG), today whether you connect to the grid or not. And, there is no law against producing a glut or abundance of electricity. In America you have a right to purchase electricity at whatever price you want just like you do an automobile or block of cheese. Where consumers do not exercise their freedoms in energy agency proceedings, they will increase market power tyranny and related crime and war in the world. This translates to increased price hikes over the next quarter of a century with the continued suppression of BI-PV from the mainstream marketplace. However, you need no longer ask why we don't use more solar electricity.

HOW CAN CONSUMERS MAKE A REAL AND CONSTRUCTIVE DIFFERENCE?

- Form a network of *groups of consumers*
- Monitor and intervene in energy agency proceedings
- Do not worry about being smart or perfect
- Have a good time and work together
- Keep focused on transforming energy commerce
- Use demand-site product-driven renewable electricity generators

As far as I can tell in all the reading I have done a comprehensive intervention strategy outlining direct official consumer participation in energy agency proceedings has not been attempted at any time in the history of the energy commerce. The one thing that helped me to sustain some of the challenges that came my way was the fact that I was a pioneer in an historic DG proceeding. I was shocked that with all the innovative leaders in California, SDC/Smith was the only independent entity representing DG renewable energy consumers.²³⁸ The pioneering spirit that settled this nation was a lamp unto my path. As the idea of mass consumer intervention began to form within my thinking over the last five years, the search for a successful model organization became a priority. The rampart crime in energy agency proceedings became a major concern for me.

The 30,000 SF BI-BP roof on the Georgetown University Intercultural Center is a guide to demonstrate the worth and beauty of BI-PV. Neighborhood beautification or Neighborhood improvement groups will be important in assuring BI-PV systems are safely and aesthetically integrated into neighborhoods and communities. Certainly the energy industry transformation group would want to work with them. The issues of white-collar crime, insider manipulation and trade coupled with undercurrent terrorist activities in energy agency decisions suppressing BI-PV need to be considered in developing neighborhood policies for a potential energy crisis, energy shortages and design standards. A consumer support network for self-generation technology consumers in energy agency proceedings would be an important role of the group. Consumers best understand consumer issues related to contract negotiation, incentives and related finance. Further, I envision a network of *groups of consumers* to be independent entities working cooperatively with a variety of groups in neighborhood, community, commerce, and government intervention.

²³⁸ *DG or Not DG, one renewable energy advocate takes on California's distributed generation interests in comments before the PUC, Off Peak, Public Utilities Fortnightly, August 1999, page 70*

From Neighborhood Crime Watch Groups to Neighborhood Energy Watch Solution Groups

Based on the highly successful model of Neighborhood Crime Watch Groups, I am proposing to establish a nation-wide network of Neighborhood Energy Watch Solution Groups or N.E.W.S. Groups. The primary goal of N.E.W.S. Groups is to facilitate consumer consensus in energy agency proceedings. The fact that one may now deliver or serve their comments and official documents on the Internet is a tremendous benefit to consumers. A preliminary website has been created to serve as a focus for N.E.W.S. Group activities. 25% of the profits from this book will be used to establish a foundation to educate the public about N.E.W.S. Groups and to help various neighborhoods establish their own Groups.

www.geocities.com/electricitynewsgroups

Most people don't know what technologies and fuels are used to bring them their electricity daily. A large role of the N.E.W.S. Groups will be to evolve informed consumers in Neighborhood groups through educational seminars and Internet newsletters and courses.

Explore energy agencies in your state. Monitor proceedings on the Internet. Form a Neighborhood Energy Watch Solution Group and recruit members. Meet to discuss your observations and help write a local consumer workbook.

Neighborhood Energy Watch Solution Groups are abbreviated as N.E.W.S. Groups to remind us that the mainstream media is not reporting about energy agency proceedings and related public hearings. Media claims it is too technical to cover these proceedings while they play judge and jury in complex murder trials. The media is presently one challenge that needs to become an ally in facilitating consumer rights and consensus in energy agency decisions.

United States Department of Energy, Fact-Index

http://www.fact-index.com/u/un/united_states_department_of_energy.html

United States Department of Energy

<http://www.energy.gov/>

National Institute of Building Inspectors

<http://www.nibi.com/>

Federal Energy Regulatory Commission

<http://www.ferc.gov/>

United States Institute of Peace

<http://www.usip.org/aboutus/index.html>

National Renewable Energy Laboratory

<http://www.nrel.gov/>

Neighborhood Energy Watch Groups

<http://www.geocities.com/electricitynewsgroups>

CONTACT US; REGISTER YOUR GROUP:

electricitynewsgroups@yahoo.com

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Neighborhood Energy Watch Solution Groups Worksheet to Get You Started

Name of my utility: _____ website: _____

Price I pay per kWh: _____ Monthly Avg: _____

Utility tariff|rule allows interconnection to grid: _____

Amount of electricity consumed in city: _____ ST: _____

Agency regulates utility: _____ website: _____

Agency regulates utility: _____ website: _____

Agency regulates utility: _____ website: _____

Renewable incentives: _____ website: _____

Renewable incentives: _____ website: _____

Renewable incentives: _____ website: _____

THINGS TO DO:

- Develop N.E.W.S. Group Monitoring Plan
 - Schedule Your Energy Agency Monitoring Plan
 - List and Schedule others who may be interested
 - List questions you have about your electricity bill
 - List names and contacts for energy agencies
 - List area electricity infrastructure concerns
 - Organize manual for you and for N.E.W.S. Group
- List questions about the material in this book