

Topic	Outline
Introduction	<p>My enthusiasm for energy conservation was ignited by the person giving me a lift during a hitch-hiking trip in England during 1959. He mentioned that he envisages that cars in the future could be electric powered and the energy to be provided from solar voltaic panels built into the roof/bonnet. At first it seemed ridiculous but the more I thought about it, the more I became interested. Since then I have promoted the concept wherever I have been. Until recently I have been disappointed in the general dismissal, lack of interest or even ridicule at my “greenie” suggestions. Maybe it is the way I tell em!</p> <p>However I now sense a surge of interest, which is can open up many challenging and exhilarating avenues of development.</p> <p>I feel that energy conservation should be practiced at every opportunity. Lower consumer demands at all levels means that it will be easier for new systems to be brought into use. It also reduces the pressure to spend large capital sums on new conventional power stations, which in their present form are wicked polluters. The present consumer load factors should be improved to allow existing power stations to operated as much as possible in the more efficient base load mode which will also maximise returns on existing plant.</p> <p>This should allow capital investment to be diverted to the development and commissioning of more efficient energy producing and conversion systems. It will also open up new opportunities for younger persons.</p>
Non-renewable fuel and energy supplies.	A percentage of the tax on fuels should be dedicated to undertake research and development of energy efficient practices and equipment. A sort of superannuation scheme for energy supplies.
<b>Efficiency of energy conversion in generation and production processes in both centralised and local installations.</b>	<p>Energy efficient processes</p> <p><b>Flue Gas/Propane waste heat recovery as outlined in the journal Power Engineering/July 2004. It claims that the overall efficiency of some existing power station has the potential to be improved from 35 to 60%.</b></p> <p>Energy efficient prime movers, particularly those operating 24/7</p>
Recreational centres	Recreational centres such as aquatic centres including gymnasiums, indoor football, tennis, netball courts, restaurants etc in landscaped areas can be located close to power stations or large production processes and be powered from waste heat and solar power.
Centralised and local power generation	<p>Local (boutique) environmentally and socially acceptable power generation systems should be promoted as long as they do not invade the well being of the local residents and that the emissions fall well within world standard EP practices.</p> <p>This should reduce the need to increase the rating of the existing power distribution systems and also make consumers less vulnerable to disruptions from centralised sources.</p>
Energy efficiency at consumer level	<p>Discouragement of wasteful energy practices such as in the application and use of laundry driers, dishwashers, and air conditioning due to poor building design and facilities.</p> <p><b>Promotion of energy efficient systems i.e. Micro Chip CHP, typically as developed by Ceramic Fuel Cells Ltd in Melbourne.</b></p>
<b>Renewable energy systems</b>	<p><b>Solar Voltaic installations to be promoted on new and existing:</b></p> <ul style="list-style-type: none"> <li>• <b>Domestic – House roofs, carports, verandahs.</b></li> <li>• <b>Public areas – Schools, malls, covered sports areas, covered parking areas.</b></li> <li>• <b>Business areas - Offices, shopping centres.</b></li> <li>• <b>Industrial sites – Warehouse and factory roofs,</b></li> </ul>
Improved consumer metering of electrical consumption	<p>Coerce consumers to reduce peak loads and improve the load factor. The implement of automated energy management within the home and office.</p> <p>Increased incentives for all energy users to install and/or use systems that are powered by renewable energy.</p>
Suburban layout	<p>New suburbs designed to minimise unnecessary travel by vehicles. Served by public transport. Incorporating local shopping centres for the daily and weekly household requirements within easy access.</p> <p>Promote the use of slower speed vehicles for local use i.e. golf buggy type vehicles.</p> <p>The design and orientation of buildings to be more in tune with our various climatic conditions and</p>

	<p>local areas. To utilise and provide effective shelter from solar radiation, wind and rain. This could easily incorporate solar power.</p> <p>Promotion of malls and alleys.</p>
Harmful emissions to persons and the environment.	<p>Acts revised to adequately penalise those individuals and companies that violate existing standards of emissions.</p> <p>Gradually and realistically raise the criteria of allowable emissions.</p>
Summary	<p>I apologise for presenting this submission in a task list format but rather than spend more time desktop publishing I would rather ensure that I complete this submission.</p> <p><b>Instead of posturing and churning as to why we should do it and how we should do it and when we should do it. LETS DO IT NOW.</b></p> <p><b>No matter how insignificant your contribution may seem just keep in mind that all contributions are significant. END</b></p> <p>Environmentally yours Allan Jameson</p>