

# Save Hawai'i...Save the Planet.

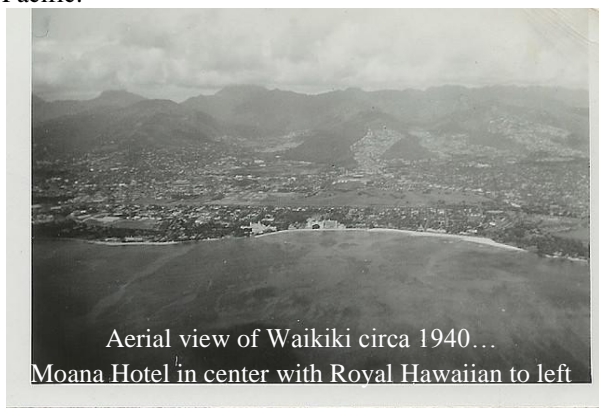
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## ABSTRACT

Oil is an intimate part of life living and living as oil's chemical attributes are quintessential ingredients in most all modern day products, technologies, and conveniences. Therefore to ensure a sustainable future it is imperative we stop burning-off oil as fuel for modes of progress, and transports. Power Alternative is a non-profit scientific R&D company seeking alliance/partnership with businesses and individuals to share in sums offered city, state, and government to support advancement of clean energy, and green machines referred inclusively as EcoSystems or EcoTech (Eco-Technology). To resolve environmental impact and economic plight our world is facing, strategic efforts must develop various EcoTech and EcoSystems so that we can grow and progress with less impact on land, air and sea. Aim is to set precedence that will lay foundation for change to usher an Eco-Industrial Revolution to remove ourselves from dependence on fuel...so our children's children can sustain and afford quality life tomorrow.

## MODERNIZATION OF A 3<sup>rd</sup> WORLD

Since mid-1800's people from all parts of the World came to Hawai'i due to progress and economic development in these isolated island markets. By 1900, it was mainly American businesses that were well established, and so too, was their military making Hawai'i a strategic military installation for US in the Pacific.



December 7<sup>th</sup> 1941, Hawai'i was dragged into War in Pacific when Japanese attack US Military Bases on O'ahu. Then nearly, 20 years after that attack American tourists were flocking to see these islands in first decade as State of the Union...the 60's.

## OPRESSED BY PROGRESS

Where were you in fall of '73 to spring of '74, when OPEC issued an Oil Embargo against US? At the time federal mandate to ration gas was publicized as warning sign of future oil shortages, or worse being severed from supplies. Fact was that the Arabs seated in OPEC committee ordered that US be cut-off from oil supplies due US backing the Israelis during the Yom Kipper War. ...ever since then, US has been primary force in coalition sent into battle in Mid-East to ensure world's oil supplies are not interrupted. However, when US mainland had time and again recovered from recurring recession, Hawai'i has never truly recovered. For when Embargo lifted and fuel prices doubled, Pineapple and Sugarcane Industries faltered due to direct effect of fuel costs had on their operations. At the time focus turned to tourism in the 70's hoping to reap profits from millions of tourists flying into Hawai'i. However, as indirect effects of fuel costs in travel industry crept-up on profit margin, variables of cost for tour packages between time when purchased and time of travel could not be adjusted for...so by mid 80's the Tour Industry collapsed. Since then group tours dwindled and evolved into frugal Free Independent Travelers (FIT) who took advantage of Vacation Rentals, Bed-n-Breakfast, and Time Shares that over time with compounded effects of recession and fluctuating dollar value oppressed progress and prosperity for isolated island markets.

## TIME IS RIPE FOR HAWAII

Green movement that spawned in the 70's was show growing as solar water heating seemed to be primary product on the market. [1] The Natural Energy Laboratory of Hawaii Authority (NELHA) operated an Ocean Thermal Energy Conversion (OTEC) system for nearly a quarter century 1976-2000 proved it was feasible to cogenerate power using thermal difference between warm surface water and deep cold water in tropical oceans. However, due to oil driven corporate markets and power company's control of power grid, OTEC never got the support it needed to get beyond experimental status. Now that Americans attitudes have changed in the last 20 years as oil price reached unprecedented heights, oil spills, recession, and Mid-East Conflict has pained their hearts and taken our money, the 'Green Movement' is rekindling. Today, everything green, clean, environmentally compatible, and earth friendly is reemerging as the Eco-Industry.

## ISSUE OF 'CONSERVING ENERGY'

We've seen technological advances in photovoltaic, wind, wave, geothermal, and thermal conversion to generate electricity. Vehicle manufacturers are looking to promote hybrids, electric, HHO, hydrogen fuel cells, and alternate fuels.

[2] It's said that: "Energy cannot be created or destroyed...it only changes from one form to another." So it is a matter of interpretation of what general public thinks energy is. If one consider all the things that oil is the one thing it is not...is energy. In all accounts of media keeps referring to conserve energy; to reduce importing energy; and become energy independent. Therefore the world is conditioned to fuel progress and so true issue to conserve...is fuel.

## SYNOPSIS OF BUSINESS PLAN

**Introduction:** Hospitable climate of Hawaiian Islands allow anyone to establish suitable living situation to survive off bounty of foods from land and sea. However, in modern times, most every aspect of living and livelihood depend on oil as fuel for energy and its chemical attributes (petrochemicals) are quintessential ingredients modern conveniences, luxuries, electronics and toys. Projects intend to implement innovation called Ambient Thermal Energy Conversion (ATEC) and related hybrids that tap true energy; does not consume fuel, and has little, to no carbon emissions/footprint. Intent is to launch an Eco-Industrial Revolution in Hawai'i to bring appropriate technologies to market that will lay keystones for more stable economic foundation beneficial to show global society how growth and progress can have less impact on land, air and sea.

**Problem:** Considering that all modern advancements we have achieved is due to vast applications of petrochemicals. We are burning off this precious commodity of oil due to every barrel of oil is made into various fuels for internal combustion engines (ICE) that motors mode of progress, transportation, and commerce. Now, globalization of markets has entire world of energy consumers conditioned to depend on oil and believe it is energy, so depletion rate of this limited resource is accelerated.

**Solution:** Bring to market variety of engine systems applicable for power generation, and transportation that do not rely on oil for fuel, and thus, promote change to more ecologically sensible mode of progress beneficial to reduce carbon footprint and lessen impact of growth.

**Market:** Power grid and fuel imports controlled by electric company has constricted markets' to apply appropriate technologies to offset high cost of living in Hawai'i; electric rates, and fuel cost are so expensive that it is difficult to maintain modern living standards. Realistically, there is little difference between Hawai'i

in vast Pacific and our Planet in vastness of space. Therefore, if we can resolve issues to save isolated communities in Hawai'i from economic collapse due oil dependence, environmental impact and recession...then the same can be done for the global society on earth isolated in space.

**Financial Plan:** Banks are not lending stimulus money as drafted by American Reinvestment & Recovery Act (ARRA) so plan is to use Working Capital Management Account (WCMA) at Merrill Lynch as 'placement account' for money collected /earned otherwise obtained to support efforts apply EcoTech and EcoSystems. Preference to use WCMA provides worldwide access to usher Eco-Industrial Revolution (EIR) that emphasizes application of ecologically sensible technologies that conserve precious oil resources, and promotes growth of sustainable societies less likely to erode economic foundation.

Campaign will solicit for \$500 membership (lifetime) fee per \*family, and \$5000 - \$20,000 retainers from commercial and private investment to fortify baseline resources in WCMA for fulcrum of financial leverage to change mode of progress to better enable human societies to survive on Earth. (\*per family of 4)

**Immediate Projects:** Negotiations seek engaging in joint venture to design and develop custom EcoSystems or EcoTech beneficial for:

### R&D at-hand:

- Fabricate models for standalone exhibits, and displays at various events; for contest, challenges, or other competitions.
- Develop LASM (land, air, sea motiv) using hybrid motor called Hydrodynamic Engine (HydroDynE).
- Apply HydroDynE in SWATH (small water area twin hull) for Fast Ferry/Freighter & Fisher/Crabber.

**Ultimate Projects:** Design and develop apparatus and crafts for entries in [3]Night Rover and [4]Nano-Satellite Launch Challenge purchase large parcel in Ka'u District on Big Island to establish:

- Eco-Industrial Vocational Campus,
- Mock Lunar Base/Spaceport and
- Private compound as headquarters for Power Alternative R&D.

## REFERENCES

- [1] [nelha.org/about/history.html](http://nelha.org/about/history.html)  
[2] [goodreads.com/quotes/show/4455](http://goodreads.com/quotes/show/4455), it is the 1st law of thermodynamics  
[http://en.wikipedia.org/wiki/Laws\\_of\\_thermodynamics#First\\_law](http://en.wikipedia.org/wiki/Laws_of_thermodynamics#First_law)  
[3] <http://www.nightrover.org/>  
[4] <http://www.spaceflorida.gov/nano-sat-launch-challenge>