

- **Critical National Need IDEA**
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As American family's are struggling to keep a roof over their heads, high energy costs for heating and cooling keep going up. Solar panels are getting cheaper to build but still rather expensive to replace power from the grid. The passive solar systems tried in the eighties were not very efficient, only marginally successful. I believe they could be greatly improved on by using different oils in sealed systems, using heat exchangers for water and steam power. Building smaller sealed systems using oil or hydroberic salt. Completely closed system heating salt/oil circulating from heat source to storage to boiler/heat exchanger, drawing off heat and returning to heat source in a closed loop. Using the same super heated salt/oil sealed system through evaporator and condensers for heating and air conditioning. Using heated oil or molten salt would create no pressure and hold temperatures for in ground insulated storage. For off the grid it could provide power for small appliances and heating and cooling. For homes on the grid an alternative to expensive gas and electric companies. I believe that this simple system closed in nature, in a small capacity for single family homes could be advanced to a commercial installation. Using the same sealed system to operate boilers, depleting no fuels and creating no pressure in the heat source. The heat source being only sunlight through magnifying lenses and mirror refraction. Heating vessels made of black iron or stainless steel tanks set at focal points.

I have worked as a Stationary Engineer in bakeries and ice cream plants and many years as a Plumbing Contractor. I believe by simplifying systems down to heating and cooling approach we can lessen the load on the grids and give the homeowner the choice to be independent from the grid, and still have heating and cooling and power for lighting and small appliances. I WANT TO FIND OUT HOW HOT IS HOT USING MAGNETIFICATION AND REFRACTION. The end results to create alternative methods of heating and cooling and producing power with just sunlight, time and temperature for heating, temperature and pressure for steam and refrigeration. Starting with small scale working up to large scale. Using sealed systems and no fossil fuel. I am not a scientist nor am I a corporation. I'm not looking to get rich off developing alternatives to the grid. I do intend to provide heating and power for my little off the grid home, and set up a workshop where I can build small systems. I have a small house under construction in Nevada with 5 ½ acres. The house is concrete frame construction with 18 inch wide earthen walls. I will need an additional prefab metal bldg. for construction of heating vessels, boilers and other solar technologies for power. With or without help from the government, I will continue research using the simplest methodology and small scale power production. I also want to work on a solar steam engine with a very small boiler utilizing check valves, very high heat flash inlet check closed under pressure, outlet check opens on pressure closes reloads and repeats.

I believe that even a partial system small in nature, just household heating could be accomplished at little expense with virtually no upkeep, nothing to wear out and using no fossil fuel, could eliminate the cost of heating a house and hot water. A more complete system would give the homeowner an alternative to grid power. Another project being refrigeration and air conditioning using solar for heat source directed to a burner similar to a domestic refrigerator.



RESEARCH AND DEVELOPMENT FOR ALTERNATIVE HEATING COOLING AND POWER FOR SINGLE FAMILY HOMES ON AND OFF THE GRID USING NO FOSSIL FUEL.

