

Water Harvesting The Security and Greatness That It Can Produce for Australia

Introduction To My Plan.

There is one big difference between Australia and Brazil , which I found out when I visited Brazil in 2006 and that is the rain comes in from the East and North East and the South and South East just like it does on the East Coast of Australia .

The rains come out of the Atlantic Ocean all the way from Africa and the rain travels relatively unobstructed across the whole of Brazil till it makes contact with the Andes Mountains where the rain is finally spent and makes its way back down the rivers into Brazil in huge volumes of water , so Brazil is well watered , but it is lacking in cleared ground to produce farmed products.

Australia has huge amounts of undeveloped land that could be used for farming products but it hasn't got enough rain fall for continuity of supply of water all year round to make use of this idle land for farm production , why ? The Rains come in from the Tasman Sea all the way from South America to our eastern shore the rain travels approx. forty to one hundred kilometers and it bumps into the Great Dividing Range and as it makes it's way up the range the rain is squeezed out and it falls heavily on the Eastern Slopes back down the rivers and out to sea , but not all of the rain is expelled on it's journey up the range , when the clouds reach the summit on top of the range the altitude pressure wrings the water from these clouds and heavy rain falls on the peaks , some of that water runs eastward and some of it runs westward , but is a fact more water runs east to the sea than it does to the inland. So we have a strip of coastal land that resembles the whole of Brazil where everyone wants to live and a harsh and dry inland where we try to grow our food in mostly unfavorable conditions , such a struggle for the people that give it a go. God smiled on Brazil , but he frowned on Australia.

Now getting away from my plan for a moment I would like to add a plan for the North Coast Rivers , all the water that is dropped on the eastern slops is allowed to run freely to the sea , not a drop is saved . If the rainfall is from a cyclonic depression extreme flooding on all of the North Coast Rivers happens with loss of life and livestock and property and huge amounts of taxpayer's money from Governments in relief , wasted year after year.

On the following Rivers at their source where it is possible to get the maximum area , they should be dammed , for Flood Mitigation , Water Harvesting and Supply and Recreation Activities.

The Rivers are :- Manning River , Hastings River , Mcleay River , Bellingen River and the Clarence River , all have been problematic for decades . But the Dams would put us in control not nature.

If the Northern Rivers are Dammed even though I condone this to happen , they aren't apart of my plan to water the inland for the reasons as followers . To Pump water from these dams up and over the Range would be uneconomical to do so and very unpractical because of the cost of energy to drive the pumps to achieve this and the sheer steepness of the Range .

You could drive a tunnel from the east side at the dam water level through the mountain range exhausting out on the western side and send the water west that's if you can get enough fall to successfully run the water unaided to its final destination . This would be extremely

expensive and that would kill the project before it starts . We need a solution that will give us a return on our capital outlay and to give us cheap water .

This is what I am proposing in my plan .

Switzerland at the present supplies 40 % + of Hydro Generated Electricity to Europe , the balance is Nuclear Power . Because of all the drama connected with Nuclear Power and its safety and the excessive Carbon output from Coal Fired Power , they had to find a solution to bring more Hydro Power Stations on line , but they had run out of rivers to dam . Finally a bright person suggested that they build Man Made Lakes around the 2,000 meter mark in the mountains , completely enclosed in a geographic natural ring of mountains , with excavating and filling a huge deep lake was formed , because these lakes were close to the summit they had water in the form of snow and sleet and rain all winter and snow melt and rain all of the summer to keep the lakes full . Then the water was piped down the mountain passing through two huge capacity Hydro Power Stations , generating massive kilowatts of power to be sold to Europe , Cheap , Clean , Green , Power with no Carbon Footprint.

The above scenario can be utilized here on the Great Dividing Range and other ranges that fit the specifications needed .

At around 500 meters to 600 meters mark on our range with the required geology formation as I have described , we can build Man Made Lakes of great capacity , these lakes would be formed in known high rainfall areas on the range , example , on the range west of Port Macquarie would be ideal and would have all year round rain to keep the lake filled .

To have the desired effect the water from the Lakes would either run down the western side of the mountain range in huge pipes passing through a number of Hydro Power Stations till the water exhausts into another Man Made Lake on the lower slopes . If there isn't enough thrust or pressure in piping the water to the Power Stations to drive the turbines successfully Then a near vertical shaft or shafts could be excavated inside the mountain and the Power Stations built inside the mountain and a tunnel built to exhaust the water westward into the first lake. Clean , Green , Economical Power supplied to the grid for a generous return in revenue. The lakes also would be a source of income , becoming a playground of the Mountains.

The first overflow lake would be built on the lower slopes of the western range , The surveyors would calculate where , so there would be enough fall to run the canal with the huge volume of water to say Bourke unaided by mechanical means.

Along the way at strategic locations Huge Deep Man Made Lakes would need to be constructed to allow the distribution to the surrounding farmlands by piping or small canals. Also these Lakes would become overflow lakes in the times of very wet times on the mountain lakes . They would have a lock controlled canal into the lake which could be opened to allow quick access of the main canal water into the lake , allowing more water to exhaust from the mountain lake . this could be repeated all along the main canal route allowing them to cope with the massive surge of water,

This could be monitored from the Power Station's Control Room Electronically and with CCTV . When the first lake fills to capacity the lock is closed and the next lake's lock is opened to repeat the exercise . The number of lakes required would be worked out by the Hydraulics Engineer. At the termination of the main canal in the area deemed , there would need to be constructed a another huge , deep man made lake to store the water for distribution . In extreme dry times when the termination lake is getting low from the demand , water in the

other overflow lakes that are not suffering high demand , through a canal that is constructed with a lock control , entering the main canal further west and at a point lower than the lake , so it will drain unaided , water can be returned to the main canal at a chosen rate of flow , helping to top up the termination lake in the far west.

This Plan is not a dream , this plan will work economically and it will deliver the water to double + our food production and to start producing the products to produce Ethanol and Green Products , Pasture Improvement and Cash Crops as a bonus to our farmers to allow diversification in their business.

In my plan I want us to stop using Mineral Oils , Petrol , Diesel , Coal Seam Gas in our day to day living , for health reasons and for economics for the people using fuel.

By embracing the change to say Ethanol 100% not blended with petrol or diesel and making cars and machinery to run on pure Ethanol and Bio Diesel we will drastically reduce our carbon footprint and we will return the people back to the days of cheap energy to power their cars. Putting dollars back in their pockets and giving them jobs and healthy lives.

A whole new industry will be created new infrastructure will require massive amounts of workers to build and to run these plants and transportation and the distribution of these products produced.

I address this point strongly in my plan and that is if we embrace the total production of Ethanol .We have a waste product produced by the Bio Mass Fermentation of the plant material used , if allowed to dry and when dry formed into manageable bales similar to hay bales this material can be used in special high tech furnaces , that can be installed in the same grounds as the distillery , used to heat hot water for the fermentation process but also can heat water up to live steam temperatures to be used in the on site Power Generator or Generators . Generating Cheap Electricity for the plant and the grid , these plants would be like Wheat Silos are now. They would need to be constructed close to the growing areas for convenience , so if they were equipped to generate electric power , they would be able to supply power to the surrounding districts , thus lightening the load on the Coal Fired Power Stations on line time , reducing our carbon foot print even lower .

The Bio Mass Thermal exhaust burns clean of the nasty gasses that is of concern today .

I would like to point out to all the politicians that have my plan , it is a plan for the future Greatness of Australia , yes it's a big change and that can be difficult to comprehend for a lot of learned people , not only the common man masses , but it is feasible and even though it is my dream , I assure you I was wide awake when I wrote this plan and it is properly researched .

Take this on board if you all will , if we continue to support Mineral Oil Exploration , Shale Oil Extraction , Coal Seam Gas , Coal Mining and the consumption of Coal , we will continue to have the raging debate and uncooperativeness from the Greens , we will have unhealthy people , possible severe climatic changes to the weather , massive blow outs in the cost of living expenses , massive blowouts in transport costs , energy costs to industry will cause them to fold and close , massive unemployment and no Government will ever have a surplus because there will not be enough people employed to pay tax.

I find the people in power today are short sighted , so let me improve your vision .

Mineral Oil if we find a large reserves lasting time approx. 200 years , Coal Seam Gas 200-250 years , Shale Oil 200 years , Coal 250 years , LPG Gas 150 years.

We are now in the process of securing our next generations futures. , not only our own.

We are putting the ground rules for their prosperity. It is in our hands.

The ancient Egyptians civilization is credited with being one of the longest lasting civilizations in the world , it lasted for 5000 years till Alexander the Great conquered them and the civilization just crumbled away from that point in time . No one knows how long the Australian civilization is going to last , but I feel it will last if we get cracking now , more than 250 years .

If we follow my plan and change to Ethanol and its related products , in 5000 years they will be still using it , if we last that long , if the Australian people exceed 5000 years Ethanol will still be there helping to maintain their Greatness and Security .

That's my Vision Mr. Politicians what is yours ?

Power Is Water – Water Is Power