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C E Turbine (running in lab)

Turbo Gen Power Presents The Solution to Pollution

The Cold Engine – a combination of two proven technologies, refrigeration and turbines, to deliver *Low Cost, Clean ELECTRICITY*

Phone 780 450 2574

The problem

- 80 % of Alberta's & America's Electricity comes from fossil fuel (coal & gas).
- Our appetite for electricity continues to grew at 1.07% a year, (150 Mega watts / yr or \$75 million each and every year).
- Our supply is at risk of not keeping up with demand.
- Our sources of supply are being challenged by environmental standards.

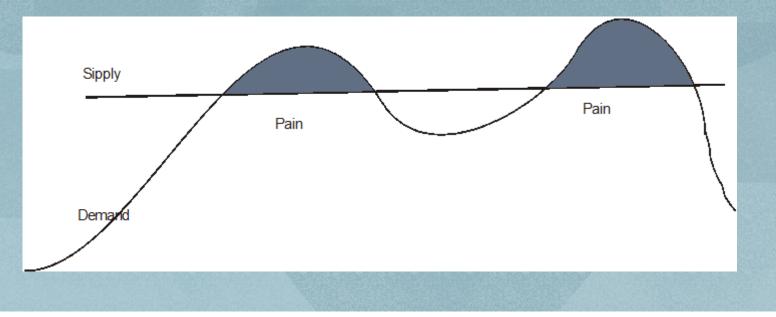
Turbo Gen Power's Solution - The Cold Engine

- Combines two established but unlikely technologies (turbine and refrigeration).
- Eliminates the environmental issued commonly associated with traditional power generation technologies.
- Low Capital Cost
- Low Operating Cost
- Capital Cost Recovery: less then one years.
- Build time: less than one year.

The pain to Industry

In the summer of 2012 when demand far outstrips supply Alberta Energy Supply Organization (AESO) responds with rolling brown outs.

- Forcing Manufacturing to shut down. The lost production costs are in the \$ millions.
- In some case vital processes are shut down which cost both time and \$ millions more to start up.



The Pain To The Public - Health

According to the Canadian Associations of Physicians for the Environment (letter Aug 9, 2012)

"Emissions from coal plants are linked to deadly asthma attacks, cancer, brain damage, acid rain and more. ... Coal is the most climate-destructive fuel on earth. When burned it releases arsenic (a carcinogen), mercury and lead (a brain poison)."

"Asthma alone costs the Canadian Health System \$7 billion yearly."

In "Science and Technology" (Dec 20, 2014) estimate "that two important constituents of air pollution kill more than 100,000 people a year in America."

The Pain to The Public -Rising Electricity Costs

- The replacement cost of electricity is 16 to 18 cents a kilo watt hour.
- Electricity is selling for 8 to 9 cents a kilo watt hour.
- Electricity is being sold st 50% of its replacement cost.
- No business can sell its product at half the cost of producing the goods.
- In a free market the price of electricity will rise to the replacement cost plus a profit.
- This will double your electricity bill.

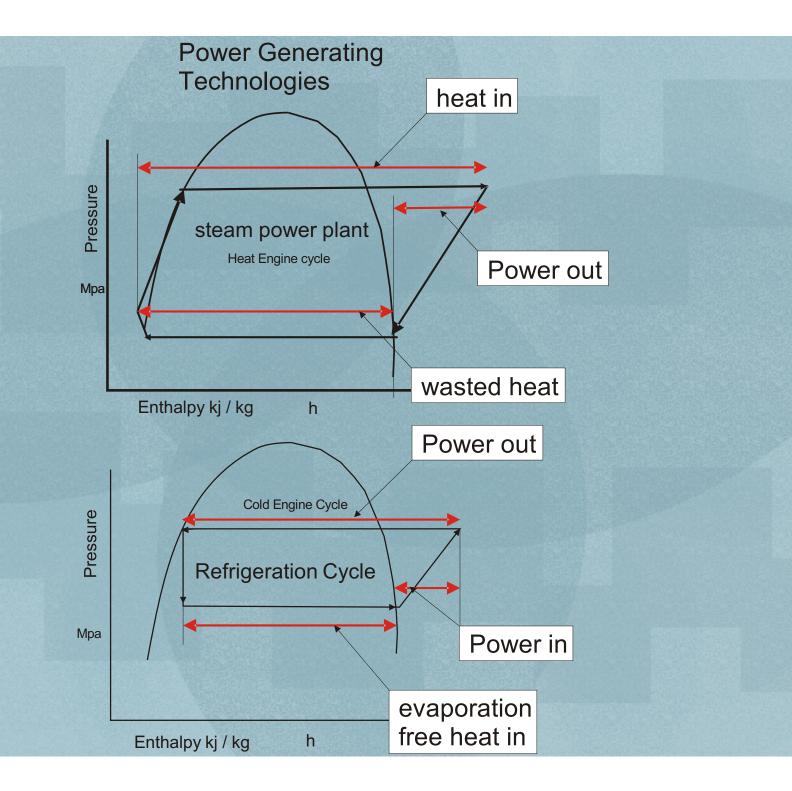
The Pain to America & Provinces

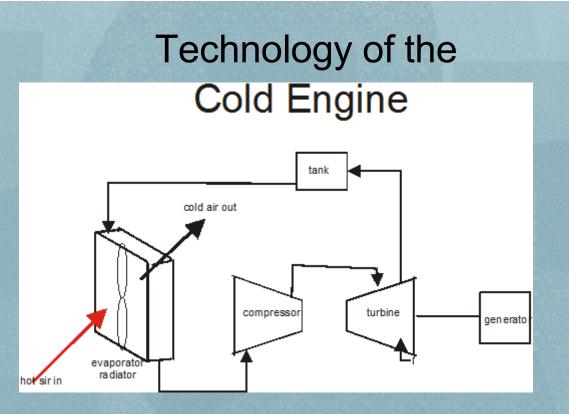
- In Canada it is the Provence who pay for the power plants. In the US it is Federal.
- Every Year Paying Billions \$ in Subsidy.
- In Alberta the Subsidy is \$10.4 Billion Annually
- If the trend is not reversed the replacement cost of existing Power Plants is far beyond any Governments budget.
- Ontario is facing this Problem today!
- This is the "Elephant" in the closet that can wreck the house, when it comes out to play.

The Solution To Pollution

The Cold engine uses a reverse thermodynamic cycle.

- The reverse cycle is closed and emits no pollution into the atmosphere.
- The reverse cycle does not heat the atmosphere.
- The reverse cycle is economical to build and run.





The cold engine has an evaporator similar to a car radiator which sucks in ambient air and blows out colder air. The cold engine gets its heat from the temperature difference of the air. A turbine converts the heat into power.

Lets compare the Alternatives

Alternative

- Coal
- Gas Turbine
- Wind
- Nuclear
- Cold Engine
- Hydro

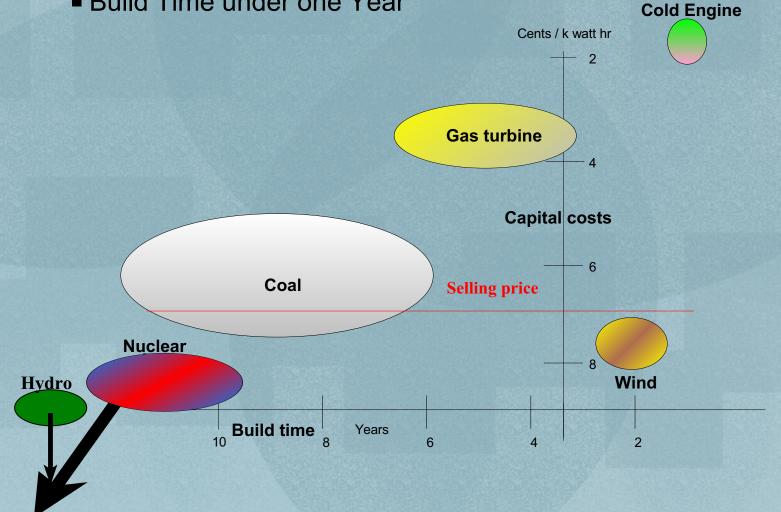
Variables

- Total Cost
- Capital Costs
- Operating Costs
- Build Time
- Pollutants

Build Time & Capital Costs

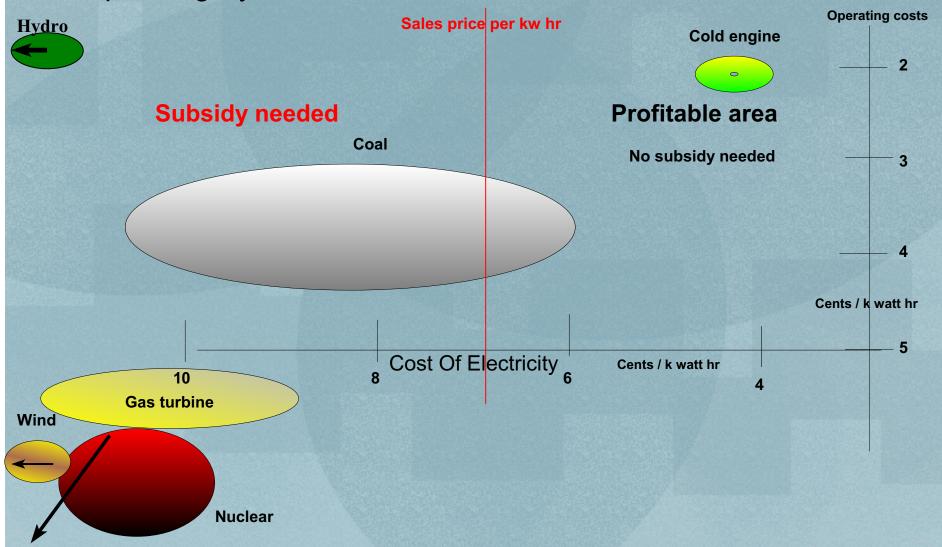
Cold Engine Advantage

- Lowest Capital Costs by a factor of 3 to 40
- Build Time under one Year

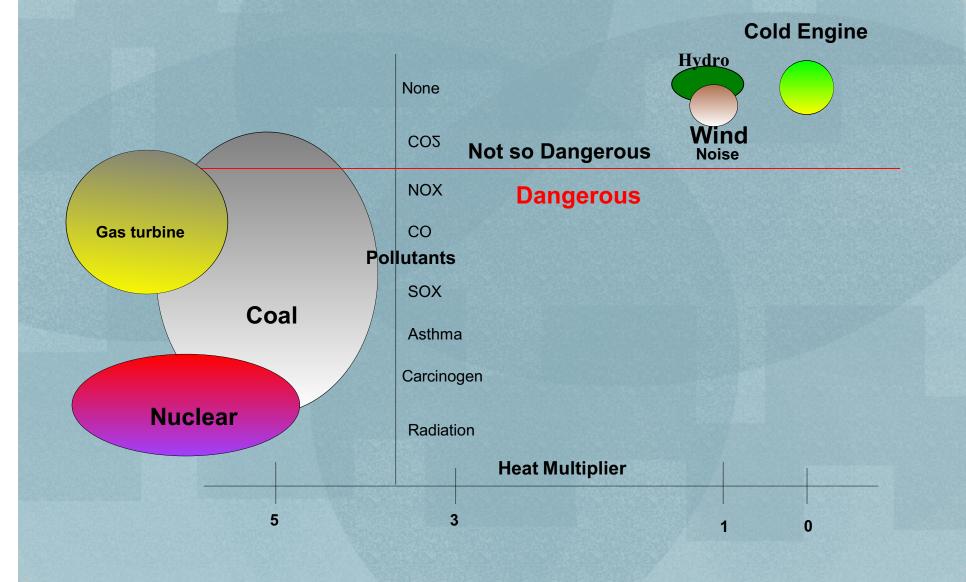


Operating Costs and Total Costs

Cold Engine - lowest costs for both capital and operating By factor of 3 to 8.



Pollution -- Heat and Health effects



The Electricity Market in Alberta

- Alberta has 14,000 mega watts of generating capacity.
- This constitutes a \$8.4 billion yearly market.
- The AESO has forecast a need for an additional 1,200 mega watts in the next 8 years.
- This constitutes an additional market of \$720 million yearly.
- Selling the electricity will not be a problem.

Where is the Money?

The Money is in selling Electricity Market Timing is it Right?

Turbo Gen Power is positioned to Capitalize on a rapidly growing market.

Current demand will outstrip supply in the next 5 years.

Our Competitive Edge

Low Capital Cost

- Low Operating Costs
- Fast to build
- Scalable
- Located in City Where Power is needed
- Capital Cost Recovery less then one year

Costs Stage One A Proof of Concept

	POC
Fees	170,000
Staff	120,000
Shop	184,800
Professional	20,000
Equipment	477,000
Erection	410,000
Overnight	136,000
Site prep	
Grid Connect	200,000
	1,717,800

Two Ways to Invest

Crowd Funding

- ► The Ask \$500
- The Minimun \$10

Offering Memorandum

- ► The Ask \$20,000
- ► The Minimum \$5,000

The Offering Memorandum (OM) The offering in the OM

- Securities offered: 8,000 Series A Units ("Units"), each such Unit comprised of a \$1,000 unsecured 15% convertible debenture and a Class "A" common voting share.
- Price per security:\$1,000 per Unit.
- Minimum Subscription Amount: Each Subscriber must invest a minimum of \$10,000, which equates to 10 Units.

What Would You Like Your legacy to be?

"Now what is the legacy you wish to leave your children's children?"

- Money?
- A healthy Future?
- A pristine Environment?
- How about all three?

This investment will do all three.

Call David at 780 450 2574