CONVERTING COAL INTO NEW MARKET APPLICATIONS, SUCH AS: SYNFUELS, CARBONITE CARBON CHAR AND COKE

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INCREASE COAL USE BY CONVERTING COAL INTO SYNFUEL COAL LIQUIDS TO REPLACE 6-8 MILLION BARRELS PER DAY OF IMPORTED CRUDE OIL

1. Proven Clean Coal Conversion Technology Exist and Commercialized by Eastman Chemical in Kingsport, TN, by SASOL Company in South Africa and China to make chemicals and transportation Fuel from Coal.

2. At even the low price of $50/barrel, paid for imported Crude Oil, that amounts to over $300 plus million leaving the USA economy every day. No wonder, the Mid-East are so wealthy.

3. Billions of tons of coal exist in the USA and thousands of miners unemployed while USA has coal to replace imported oil and make the USA independent in all our energy needs and even an exporter of transportation fuels.

4. Available coal sites exist in Virginia, West Virginia, Tennessee, Kentucky and other States like Pa, IL, WY, MO, and etc to build these needed clean coal to liquid synfuel plants with proven technology.

5. Converting Coal into Transportation Fuels is a new market for coal that will create thousands of new jobs and put our miners back to work. We do not need to always be dependent upon coal being burned to make electricity.

6. All that is needed is a cooperative energy policy with both the Federal, State and Industry working together with the resolve to become Energy Independent Once and For All and finance, build and operate these plants.
EASTMAN CHEMICAL COAL CONVERSION GASIFICATION PLANT IN KINGSPORT, TENN
EXISTING COMMERCIAL PLANTS CONVERTING COAL INTO GASOLINE, DIESEL AND JET FUEL IN SOUTH AFRICA AND CHINA

- SOUTH AFRICA 100,000 BARREL/DAY
  SASOL PLANT

- CHINA COAL CONVERSION PLANT
Coal Technology Corporation (CTC) Coal and Oil Refinery in Bristol, Va in 1986-1996

- Built a 1000 barrel per day oil refinery in Bristol, Va
- Refining coal oil liquids and blending 10% coal liquids into Gasoline and Diesel Fuel
The First Proposal Submitted to the DOE to build a 10,000 ton per day Coal to Methanol to Gasoline Plant here in Virginia on March 30, 1981

• Three great companies formed together to build the first plant in Virginia with a Department of Energy 50% loan guarantee; United Coal, Norfolk Western, and Hercules
• Plant site was selected in Radford, Virginia on the main line of N & W.
• President Carter did not get re-elected and oil prices were dropped by OPEC to $12/barrel and the US Synfuels Project was stopped by President Reagan.
Building Coal to Gasoline Plants in Each Coal Producing State will Make the Coal Industry Great Again

- A 10,000 tons per day Coal to Liquid Fuels Plant will use 3.65 Million tons of coal/yr and, at 2.5 barrels of coal oil per ton of coal, will produce 9 Million barrels/yr and create thousands of new coal mining jobs in Clean Coal
- Each plant will look like the Eastman Chemical Plant in Kingsport, TN and/or the SASOL Plants in South Africa and cost on the order of $2.0 Billion each and create thousands of new jobs
- Building these coal to liquids plants is similar in scope to what was just built in Wise County in 2012 as the latest coal powered electricity Plant using 1.8 million tons of coal per year and costing about $2 Billion. This plant is operating every day at the Virginia City Hybrid Energy Center in Wise County.
- THIS IS AN ENERGY PLAN THAT CAN BRING THE COAL INDUSTRY BACK INTO DEVELOPING NEW MARKETS FOR OUR COAL AND MAKE OUR OWN TRANSPORTATION FUELS HERE AT HOME FROM OUR OWN COAL RESOURCES.
USA’S MOST MODERN CLEAN COAL 585 MW POWER PLANT AND LAST BUILT TO DATE IN USA

1. Dominion Power built and started operation in 2012 of the 585 megawatt clean coal burning power plant at the Virginia City Hybrid Energy Center in Wise County, Virginia.

2. The cost to build this plant was about $2 billion and created a 1000 jobs during construction and 300 operating jobs. The attached photo is of the Virginia City Power Plant as shown on December 18, 2016. This plant uses about 1.8 million tons of coal and biomass/year.

3. This plant was designed to allow integration of new gasification plant additions.
Va. Carbonite Clean Coal Conversion Plant in Norton, Virginia

1. Financed Privately in 2011 by Mr. Jerry Wharton and Dr. Dick Wolfe
2. Operational in 2012 converting coal by Patented Process into foundry size coke for US customers including GM, Neenah, Griffin Pipe and others
3. A barrel of Coal Oil Liquids can be recovered/ton of coal processed
Photograph of Carbonite™ Char and Coal Oil Liquids Produced in Lab at West Virginia University in 2010 From VA High and mid Volatile Steam Coals
CARBON DIOXIDE EMISSIONS FROM FOSSIL FUELS- WHAT IS THE TRUE STORY

1. This earth is a carbon planet. It is not a Superman’s Kryptonite Planet.
2. What we eat and wear is all carbon based.
3. The carbon dioxide in the earth’s atmosphere today is 6 times LESS than it was during the dinosaur era over 200 million years ago.
4. Climate change and causes have been debated for years by the best scientist in the world.
5. Dr. C.D. Idso in recent published studies at the “Center for the Study of Carbon Dioxide and Global Changes” has shown scientific evidence that Carbon Dioxide MAY NOT be the cause of recent global warming.
6. In fact, Dr. Idso’s studies suggest that a little higher Carbon Dioxide in our earth’s atmosphere could have a number of benefits to plant and food growth in supporting human existence.
7. CO2 emissions from the world’s transportation fleets equals CO2 emissions from coal and fossil fuel power plants.
8. As part of the syngas clean up system in a gasification plant, the CO2 is captured and can be sold and utilized.
9. It has also been suggested by many of the world’s great scientist that these climate changes over the past millions of years from the Ice Age to now could be a result of our solar system’s natural movement through the hot and cold zones of our galaxy.
MAINTAINING A BALANCE BETWEEN ENERGY DEVELOPMENT AND THE ENVIRONMENT

1. USA NEEDS TO PRODUCE MORE CLEAN ELECTRICITY AND TRANSPORTATION FUELS, NOW AND IN THE FUTURE, TO MAINTAIN THIS COUNTRY’S ECONOMIC GROWTH AND PROSPERITY.

2. THE ENVIRONMENT MUST BE PROTECTED WITH REASONABLE REGULATIONS THAT ALLOWS ECONOMIC GROWTH.

3. COAL IS THE USA’S MOST ABUNDANT NATURAL RESOURCES AND THE USA MUST ALLOW COAL TO BE BOTH MINED AND USED IN A CLEAN ENVIRONMENTAL WAY.

4. HUNDREDS OF THOUSANDS OF JOBS CAN BE CREATED BY BUILDING CLEAN COAL GASIFICATION PLANTS TO MAKE BOTH ELECTRICITY AND TRANSPORTATION FUELS FROM COAL.
Steps being taken to Move Forward with this Proposed Clean Coal Conversion Energy Plan

• A letter has been sent to President Trump requesting a meeting with him and his Secretary of Energy, Mr. Perry

• A letter has been sent to Congressman Griffith and Roe requesting their assistance in setting up such meetings in Washington, DC.

• A presentation was made on April 12, 2017 to the Board of the University of Kentucky’s Center for Applied Energy Research in Lexington, KY requesting their support through their government officials.

• A letter has been sent requesting an interview with Jean Hannity on the Fox News Network

• This presentation is being made here at the Russell County Rotary Club with the local news being invited; Bristol Herald, Kingsport Times, Coal Field Progress, WCYB and Fox News to help request local support in getting our message across to the right government officials.
Executive Summary

BASIC FACTS
1. There are two basic energy needs in the USA and, for that matter, the world; and they are: Electricity and Transportation Fuels. It can even be debated which is the most important form of energy. Coal in the USA has traditionally been used to make electricity and coke for the steel industry but never been used to make Gasoline and Diesel fuel like is and has been done in South Africa for more than 50 years and now being done in China. In South Africa, you pull up to a SASOL Station where gasoline and diesel fuel are made from Coal not an EXXON station where the fuel is made from crude oil and some of that imported oil.
2. Today, the USA is self-sufficient in electricity production but NOT in producing our own transportation fuels. The USA still imports between 6-8 million barrels of crude oil per day. Even at the current low price of $50/barrel, that means we pay out over $300 million dollars per day (110 Billion/yr) from the USA economy. We have been importing oil and paying billions each year for imported crude oil for more than 30 years. No wonder the mid-east countries are so wealthy and can rage war.
3. The USA has more coal than Saudi Arabia has oil. The Energy Information Administration (EIA) estimates that the USA has currently over 260 billion tons of coal in the ground or 28% of the world’s reserves.

WHAT DOES IT TAKE TO MAKE THE COAL INDUSTRY GREAT AGAIN? – “DEVELOP NEW MARKETS FOR OUR COAL”
1. Build, at least, one Coal to Liquids Synfuel Plant in each coal producing state to convert coal into transportation Fuels; gasoline & Diesel Fuel
2. Proven gasification (synfuel) technology exist and commercially demonstrated daily by Eastman Chemical in Kingsport, TN; SASOL in South Africa and China. Each plant would convert up to 10,000 tons of coal per day (3.65 million tons/yr) into 25,000 barrels of coal liquids per day or 9.1 million barrels per year. These plants could be expanded in the future as market grows.
3. Each plant would cost approximately $2 billion dollars to build and would create thousands of new manufacturing and coal mining jobs. This investment is similar in size to what Dominion Power spent in 2012 building the latest clean coal power plant to make electricity in Wise County, Virginia that uses about 1.8 million tons of coal and bio-mass per year.