



# WHY DID THE STONE AGE END?

F. A. Dottori

## Why Did the Stone Age End?



Did Fred run out of rocks?

OR

Did technology creativity  
evolve the Stone Age into a  
new era?

## Why did the Fossil Fuel Age end?



Will we run out of fossil fuels?

OR

Will the Fossil Fuel Age leave us vulnerable like the dinosaurs?



The choice is ours to make

We didn't run out of stones, and we won't  
run out of fossil fuels  
(oil, coal, gas, peat)

Can we afford to continue putting 125 million tonnes per day into the atmosphere?

Look at the signs:

- Global temperatures going up
- Ice caps melting
- Melting permafrost

We must react with specific actions, not just talk, and have more meetings.

We need action.

## Some Effects on the Canadian Forest Industry

- BC – 10 million HA attacked by Pine Beetle will devastate forest/rural economy over the next decade
- Central Canada – Acid rain at 100 PPB vs. 30 to 50 PPB, causing die-back on hardwood species, degradation of forests
- Industry harvests 0.6% of AAC
- Insects and disease harvest 1.5 to 2% of AAC
- Costs up for harvesting in winter. Lack of cold weather to freeze swamps

## Long Term Effect on Natural Resources

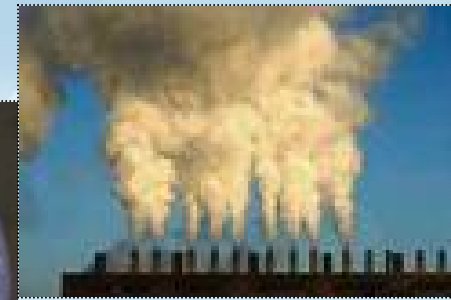


- Nature will adjust, especially trees, if change is not too fast
- It is the human and species dislocation that will create problems.



## What is the problem?

- 125 million tonnes/day of GHG to the environment



- Can the atmosphere absorb this volume without repercussions?
- Doesn't look like it, based on recently observed effects.



## Who are the biggest problems as direct users of Fossil Fuels?

1) Industrial Process	15% - 13 Million T/D
2) Transportation	20% - 25 " "
3) Power Generation	45% - 56 " "
TOTAL	<hr/> 80% - 94 Million T/D



## Can we fix it?

Yes – the technology exists.

	<u>Current</u>	<u>Target</u>	<u>Potential Red'n.</u>
1) Industrial Process	13	9	4
2) Transportation	25	15	10
3) Power Generation	56	30	26
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TOTAL	94	54	40

## Can we fix it?

- 1) More efficient energy processes
- 2) Biofuels, electric trains, rapid transit urban planning
- 3) Nuclear energy

Net reduction of 40 MT/Day is attainable with current technology. Will require 15 years to rebuild and install, convert.

## Who will do it?

Industry? Not likely. Their objective is to generate wealth for shareholders.

Lots of public posturing on CRS but CEO's are paid for financial results first and foremost

Industry will react to taxes and incentives which will affect financial performance

A carbon tax is simple if applied to "He who burns fossil fuels and releases GHG to the atmosphere pays"

Carbon trading is a sham.

## Who will do it?

Governments? They have the power to do it, but will they?

Government will come under significant industry pressure to delay and avoid changes using arguments of level playing field, global competition, etc.

Only public pressure will force a change in government policy

Few visionary leaders.

## Who will do it?

Look at why the UN was set up in 1949. Great principles!  
Results to date?

Progress, but at snail's pace

Why doesn't the US government or United Nations decide to spend \$2 Billion per year to eliminate leprosy?

\$10 B/year could provide drinking water to sub-continent instead of \$150 B/year in Iraq to protect fossil fuels, fight "terrorists"

Are Canada, France and Germany doing much better for the good of the planet and its people?

GHG is a global issue.

It is not my air.  
It is not China's air.  
It is not your air.



It is everybody's air, but where will decisive leadership come from?



GHG is a global issue.

Will we wait until we have a crisis?

Most likely.

In the interim, we will continue having meetings and talking about it.

Having nice dinners, like tonight, while children die from starvation and polluted water and disease.

## Why do we accept this?



In the wealthy countries, we care more for our dogs and pets than starving children.

# Who REALLY cares?





Are we doing our part?

We, the wealthy people and nations, could resolve some of the issues before us.

Nature and the planet will adapt and survive.

Will we?

Are we doing our part???

The Stone Age ended because technology was used to make the world a better place, not because we ran out of stones.

The end of the Fossil Fuel Age can also evolve into a better world for all. We have the technology. Let's do it.