ENERGY SERIES 2018

Dr. Tom Rand:

Kicking The Fossil Fuel Habit (book): 10 clean technologies to save the world. 2010,. Even though 8 years old , this an excellent world overview of the technological possibilities. Dr. Mike Dang gave the updated Ontario picture of renewables options.

Waking The Frog: Solutions For Our Climate Change Paralysis. 2014 (book). Review of above issues and discussion of the need to develop clean green energy companies and expand their reach to the various stock exchanges. Both books are available through both Bruce and Grey library systems.

U Tube Video. July 2017: 5 Big Ideas for Canada.

Other sources

Economist magazine including special reports.

Economist Films including overview of renewables.

PBS, NOVA and other specials, such as December 2018 report on Spanish company creating wave and tidal technology off Orkney islands, Scotland.

TED talks, including David McKay's Reality Check of Renewables and John Trent's Top 10 Energy Ideas.

U Tube:
Future of Energy - January, 2018, Clean Tech, Top 3 Mistakes, Paris Accord, Truth About Hydrogen.
Climate matters (more people work for clean technology than for oil sands).
Several videos of Gwynne Dyer on the topic of Climate Wars. Most concise is 40 minutes (Harvard). Most detailed is 1 3/4 hrs (Uof Regina). Also Dyer on Geopolitics in a Hotter World.

Notable statistics to focus our attention

-Ontario Energy Mix: Nuclear 63%, Hydro 26%, Wind 6.4%,Gas/Biomass 4.4%, Solar .3%.

-100,000 people move to Toronto everything year. -
Canada is 4th highest polluter per person (tar sands,natural gas, transportation).

-1 million people in the world move to a city every week.

-China builds one coal fired generator every week, has 19 nuclear generators and is building 50 more. It leads the world in the construction of solar panels, reducing the price to the world.

- If nuclear technology could solve problem of contaminated coolant and reuse spent fuel (sodium reactors), it could electrify the world for 750 years

-Buildings consume 40% of our energy.