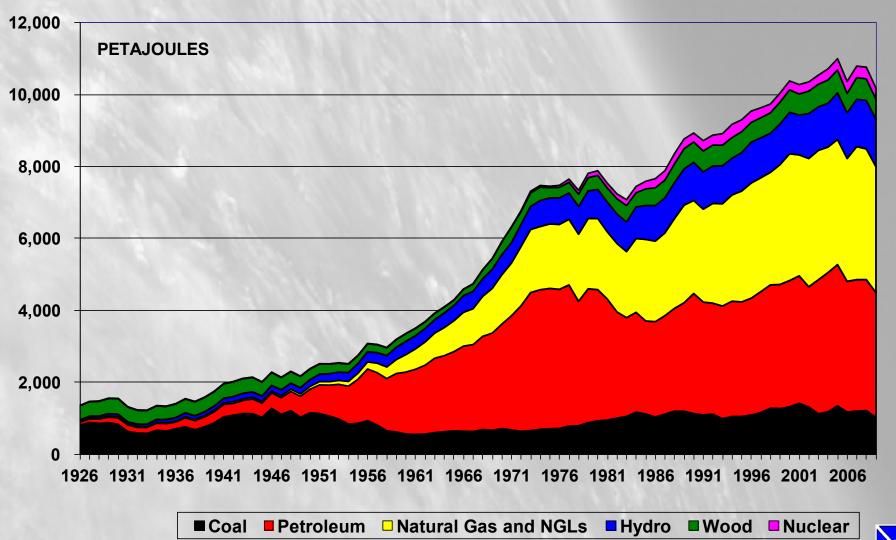


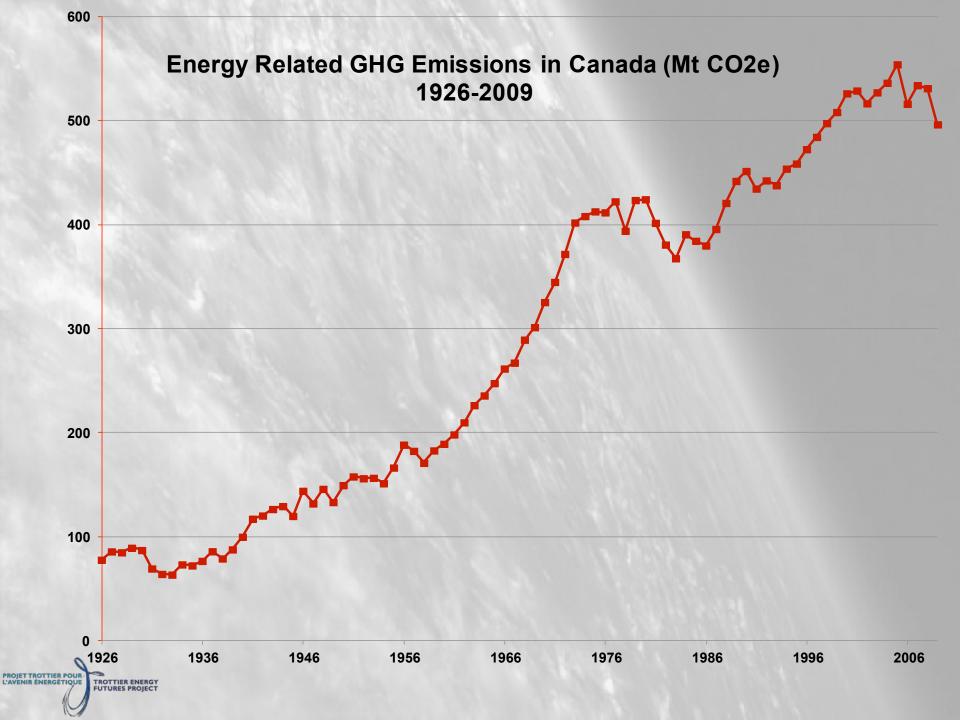
House Rules

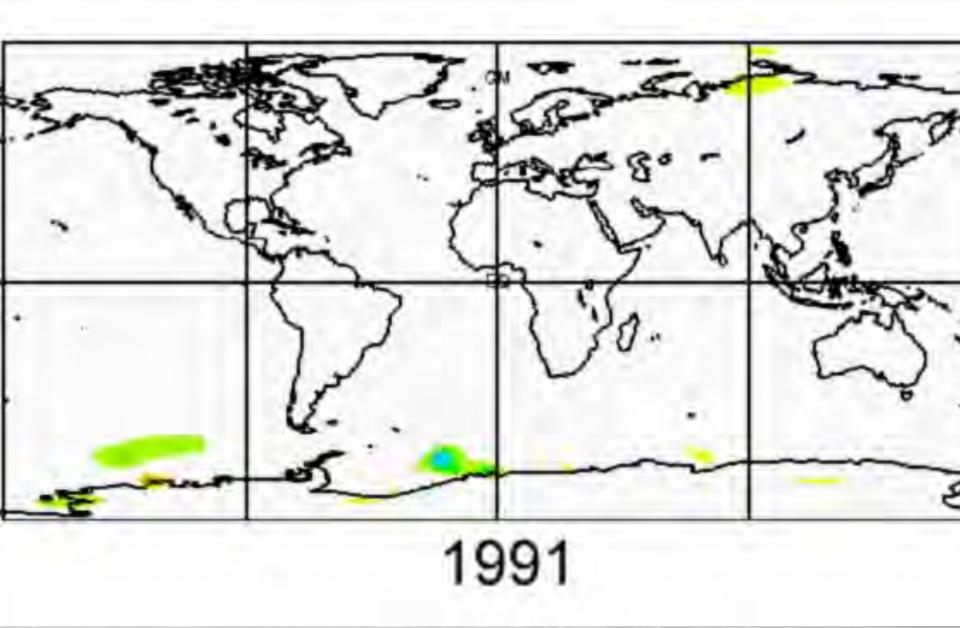
- Everything goes somewhere (There is no waste)
- Everything is connected (You can never do only one thing)
- Nature is an independent power (Laws of physics and chemistry are non-negotiable)

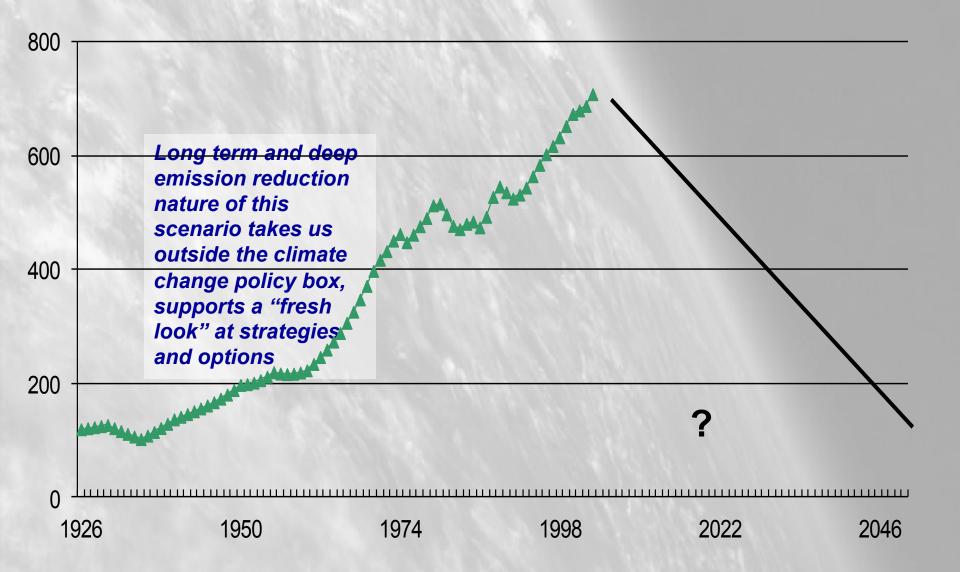
Primary Domestic Energy Demand 1926-2009













Toward a Low-Carbon Future for Canada:

Three broad levers available to lower emissions:

Consumption Per Unit of Activity	Decarbonization/ Fuel Switching	Activity Level
The efficiency with which fuel, electricity are used to deliver energy services	No- and low-carbon fuelsCarbon capture	The level and pattern of activity in the economy that generates demand for energy services



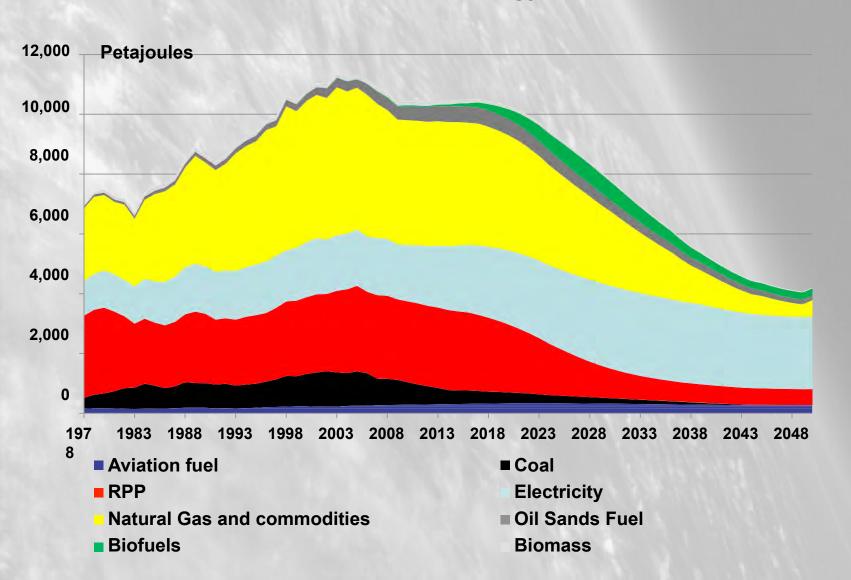
^{*} Carbon management (CCS) considered final lever due to cost/tonne

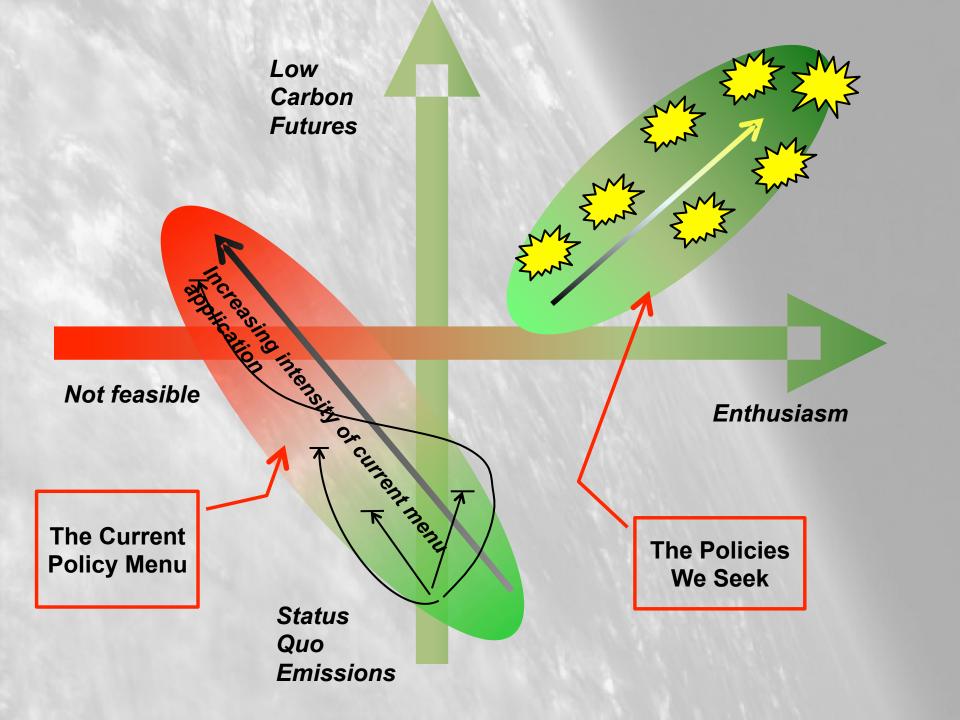
Low Carbon Energy Futures – Essential Elements

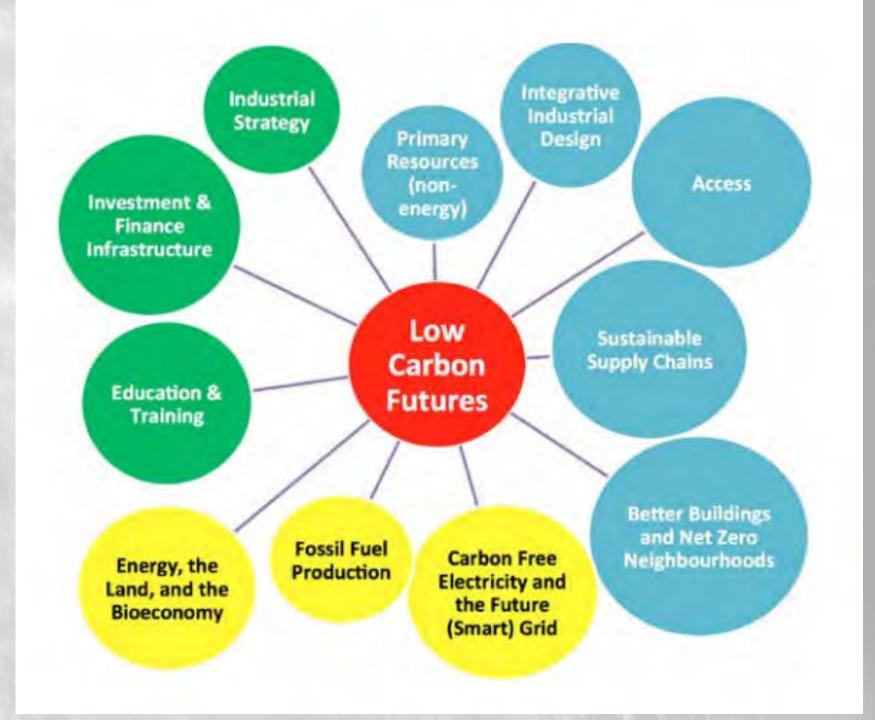
- Efficiency, efficiency, and then more efficiency
- Electricity's role expands into transportation and, in some cases, heat
- Decarbonize the electricity supply
- Sustainable production of biofuels
- Reduce the role of fuel and electricity in provision of human needs, amenities



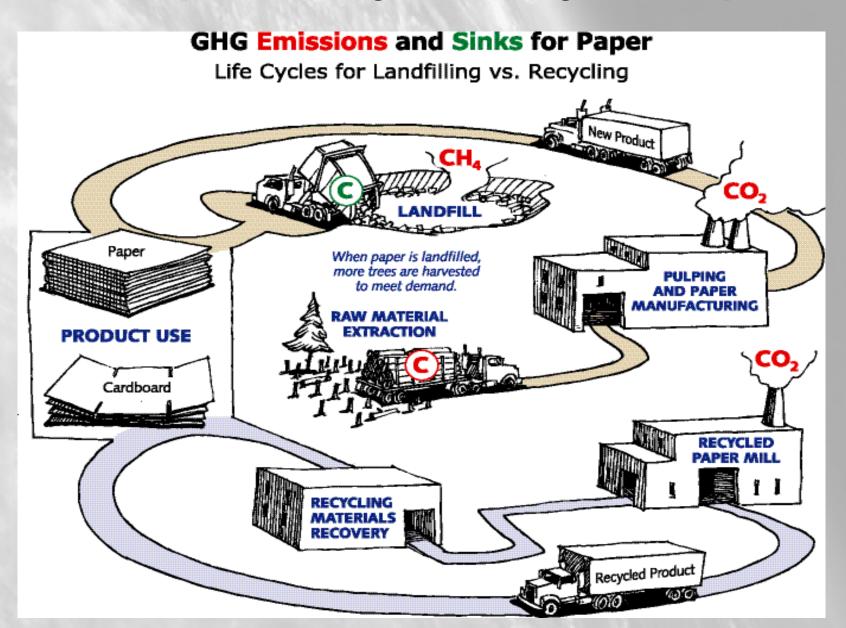
Ilustrative Low-Carbon Energy Transition for Canada...



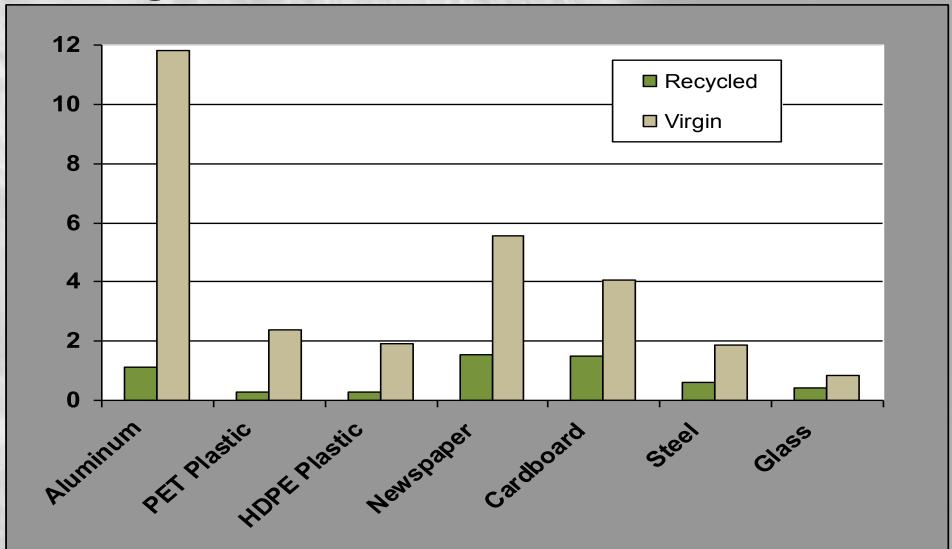




Example Life-Cycle Analysis: Paper



CO₂ Emissions: Recycled & Virgin Content Products (kg eCO₂/kg)



Source: Dr. Jeffrey Morris, Sound Resource Management



Version 1.6 (Draft)

June, 2014

Specified Gas Emitters Regulation

Government of Alberta



TECHNICAL SEED DOCUMENT FOR THE QUANTIFICATION PROTOCOL FOR RECYCLING (MATERIAL SUBSTITUTION) (VERSION 3.0)

Version: 3.0

Specified Gas Emitters Regulation

June, 2014

Government of Alberta Alberta

