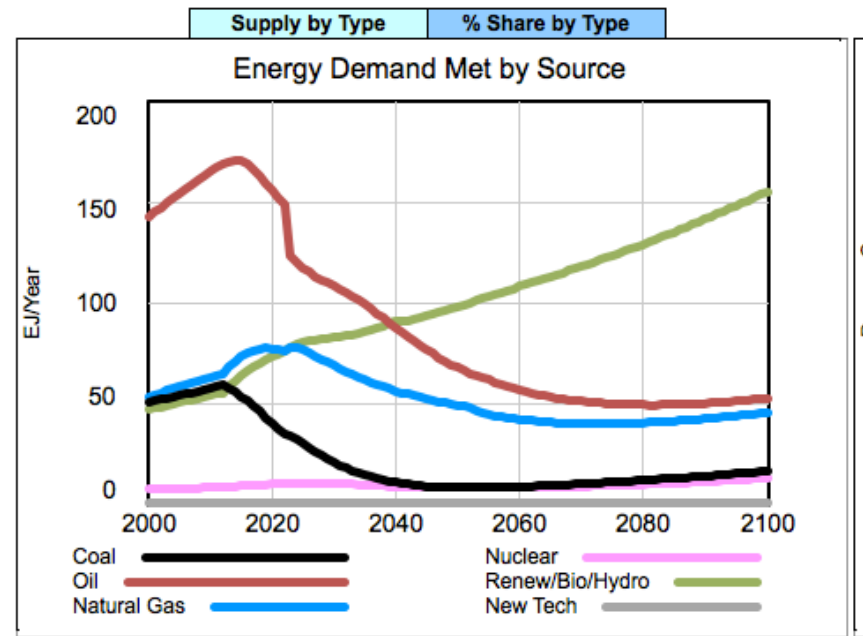


# Energy Corps: Efficiency, Education, Ennovation

- **Emissions price \$75** starting in 2012, phased in over 10 years
- **Renewables subsidy \$7** (2012-2052)
- Renewables –breakthrough cost reduction
- **REDD 0.9 & Other gases 0.9**
- Energy efficiency—**annual improvement rate of new capital 0.06**
- **GDP growth** short-term 2.5%/year

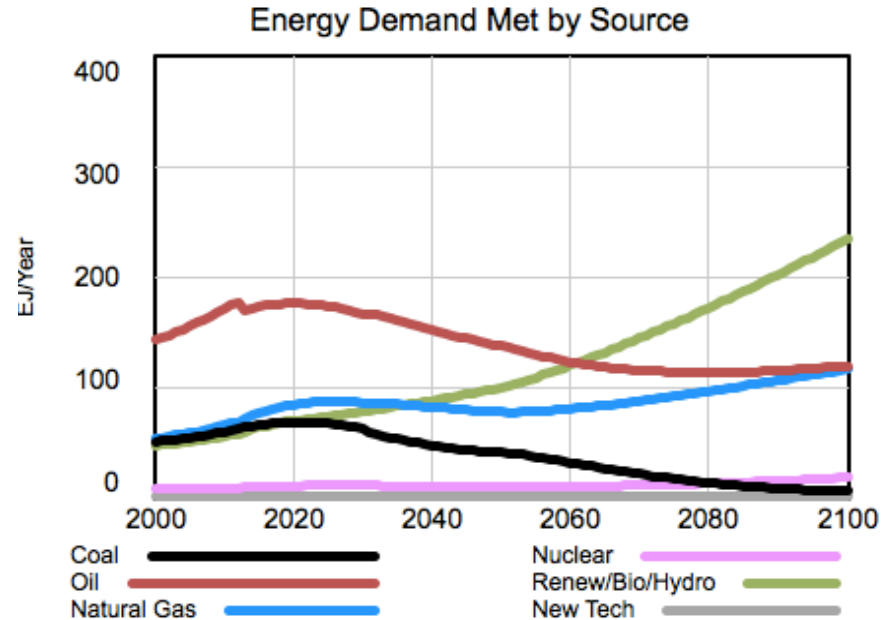


# Team Efficient Transition:

## How do you like these curves?

Our recommendations:

- **Dramatic increase in energy efficiency (5% annual)**
- **Maximize carbon sequestration (REDD and Other Gases .9)**
- **Accelerate oil → coal switch now (oil subsidy -2 in 2012)**
- **Reduce subsidies to coal (-3) starting in 2030**
- **Breakthrough in renewables (50% cost savings in 2020) to further transition**
- **Performance Standard 69 begins in 2050**

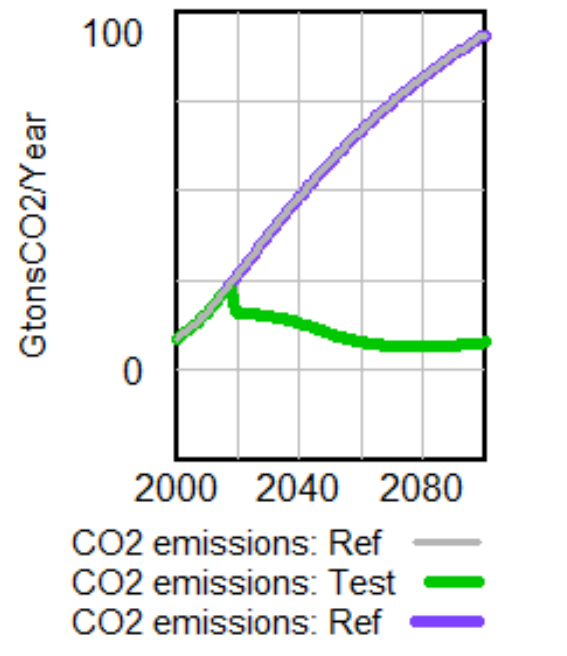


2100 Temperature Increase = 2.4 degrees C

# Sunny Days Ahead: Breakthroughs, Renewables, and Taxes, Taxes, Taxes.

- Decrease subsidies on fossil fuels by x
- Increase subsidies on renewables by x
- Increased efficiencies in renewables and oil
- Breakthroughs in renewables, oil, and nuclear
- Emissions tax!

2 Emissions from Energy

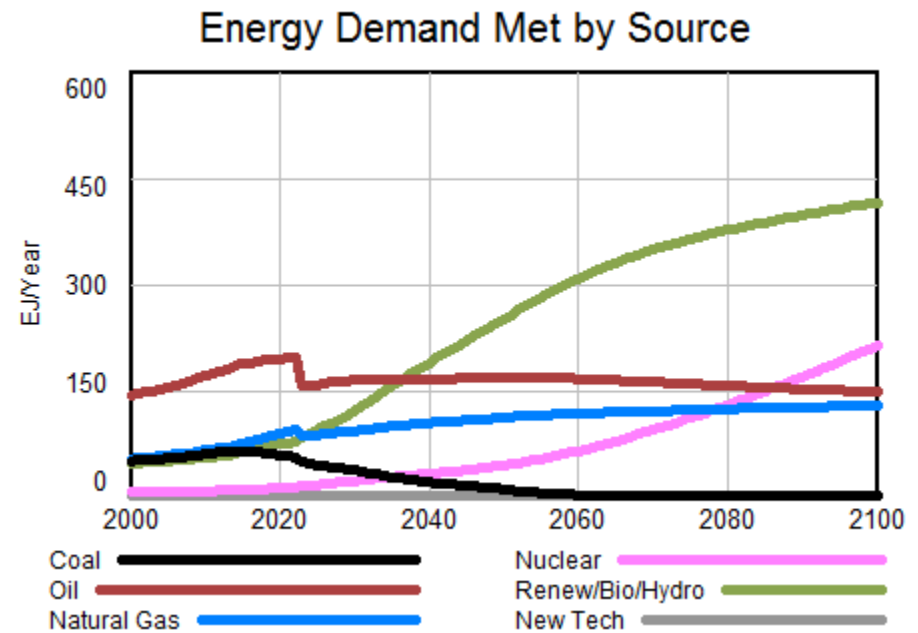


Temperature Change: 2.9 C

# Moooving forward: tax fossils, subsidize renewables, control cows

Our recommendations:

- **Emission price \$50, performance standard 70** starting in 2022,
- Nuclear and Renewables **subsidy \$10/GJ** starting in 2022
- Coal, Oil, Gas **tax \$10/GJ** starting in 2022
- **Other gases 0.8**

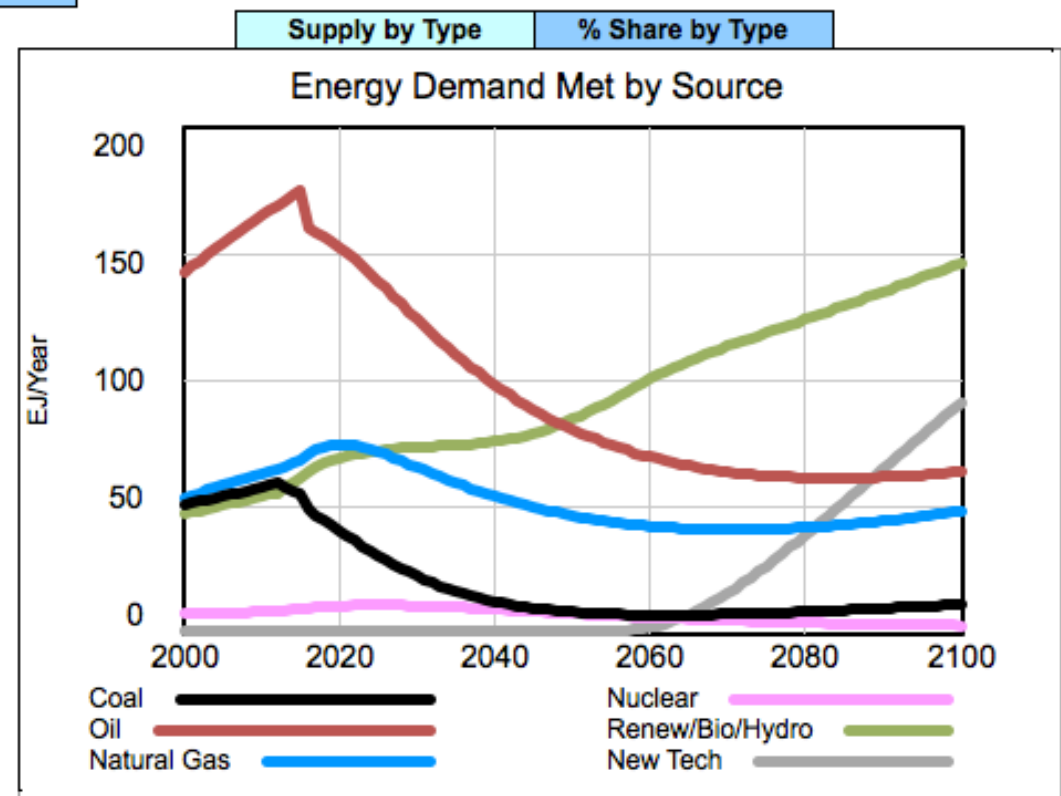


2100 Temperature Increase = 2.7 degrees C

# Captain Planet: Earth, Fire, Wind, Water, and Heart

## Our recommendations

- Emissions Price: \$30 starting in 2012 over the span of 20 years
- Renewable breakthrough cost reduction: .3 (2020)
- Subsidy/Taxes
  - Coal: -5 (2015)
  - Oil: -3 (2015)
  - Renewables: 5 (2012)
  - Nuclear: 2 (2012)
  - Biomass: 2 (2012)
- New Technology breakthrough cost reduction: .98 (2040)
- GDP Growth Short Term: 0.025
- REDD: 0.8
- Other Gases: 0.8

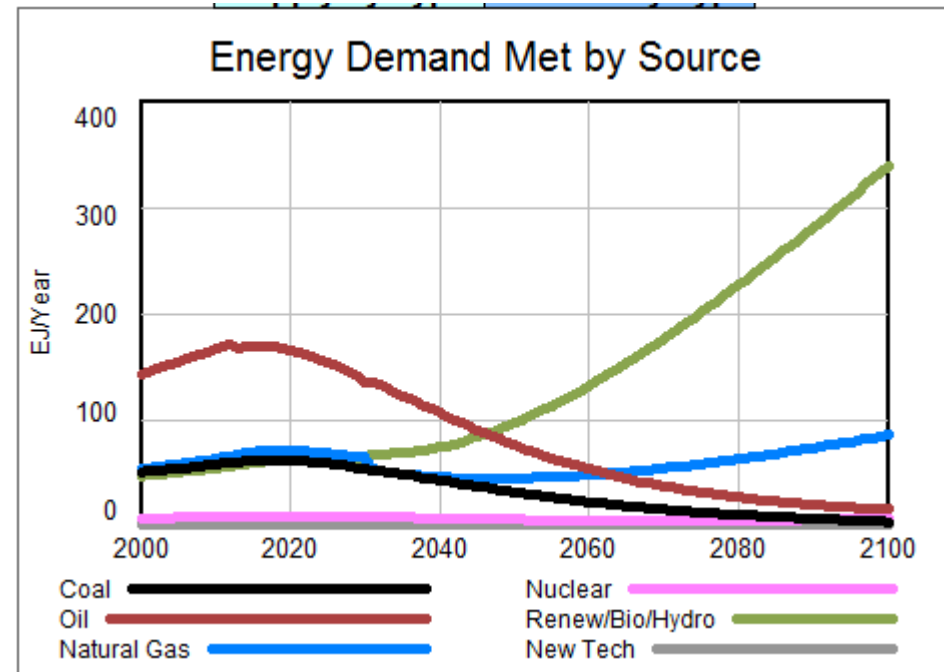


2100 Temperature Increase = 2.1°C

# Rio saviors: Smoothen the road to the future now

## Our recommendations

- Revenue neutral carbon tax reaching U\$105 **emissions price** in 2100 following Social Cost of Carbon executive order 12866
- **Subsidies** for nuclear and renewable until 2020
- Timely removal of **subsidies** on the fossil fuel sector not to loose jobs 2012 oil and coal, 2030 gas
- **Breakthrough innovations** in 2020 on nuclear and renewables
- Only using existing technologies



2100 Temperature Increase = 2.1