



**Climate Change Central**

# **CETAC-WEST**

Energy Management Workshop

January 15-17, 2007

**The Efficiency Resource**

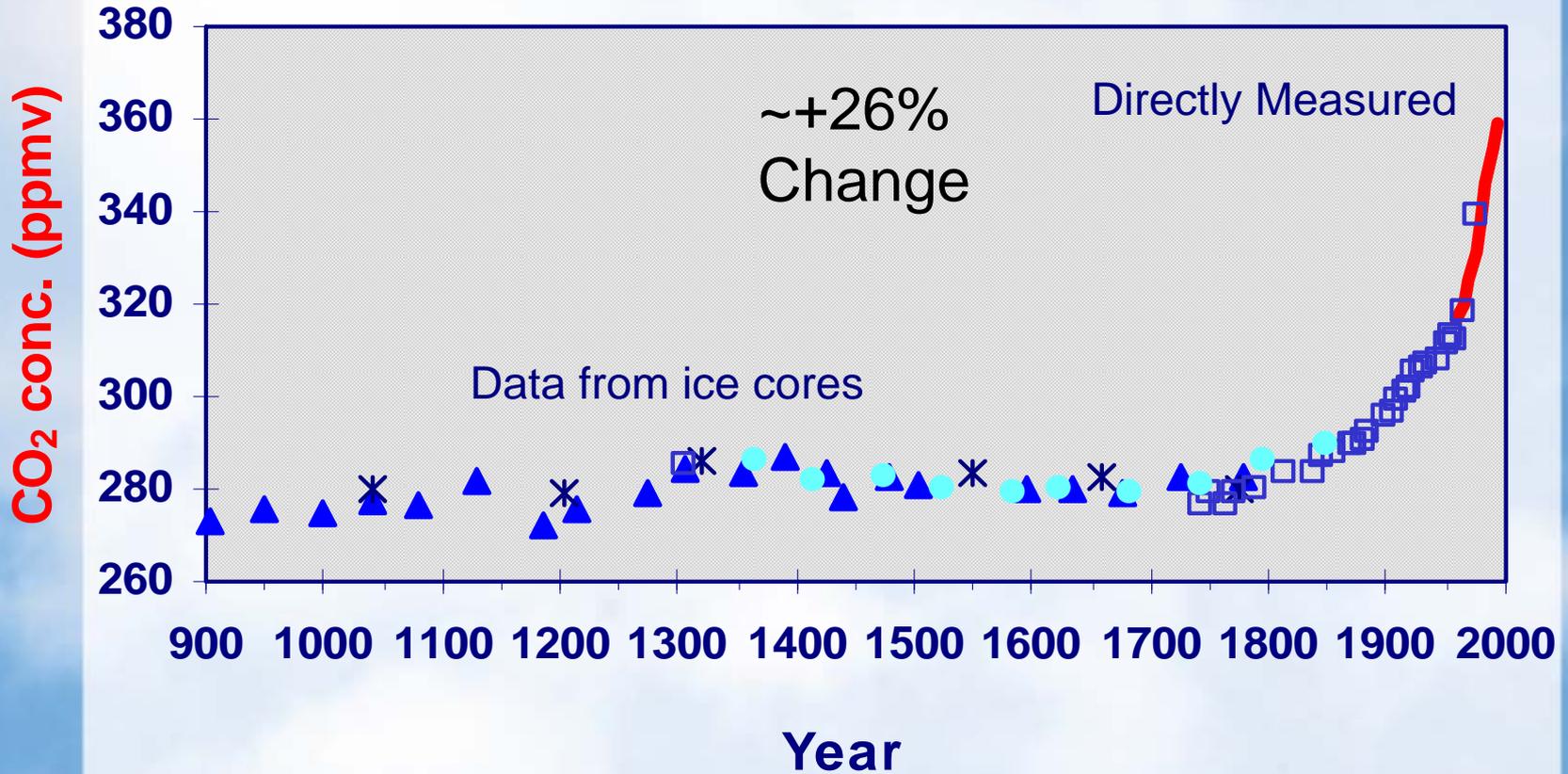
John Rilett

Director, Energy Efficiency and Conservation

Suite 100, 999 - 8th St. SW Calgary, Alberta, Canada  
403-517-2700 | [info@climatechangecentral.com](mailto:info@climatechangecentral.com)  
[www.climatechangecentral.com](http://www.climatechangecentral.com)



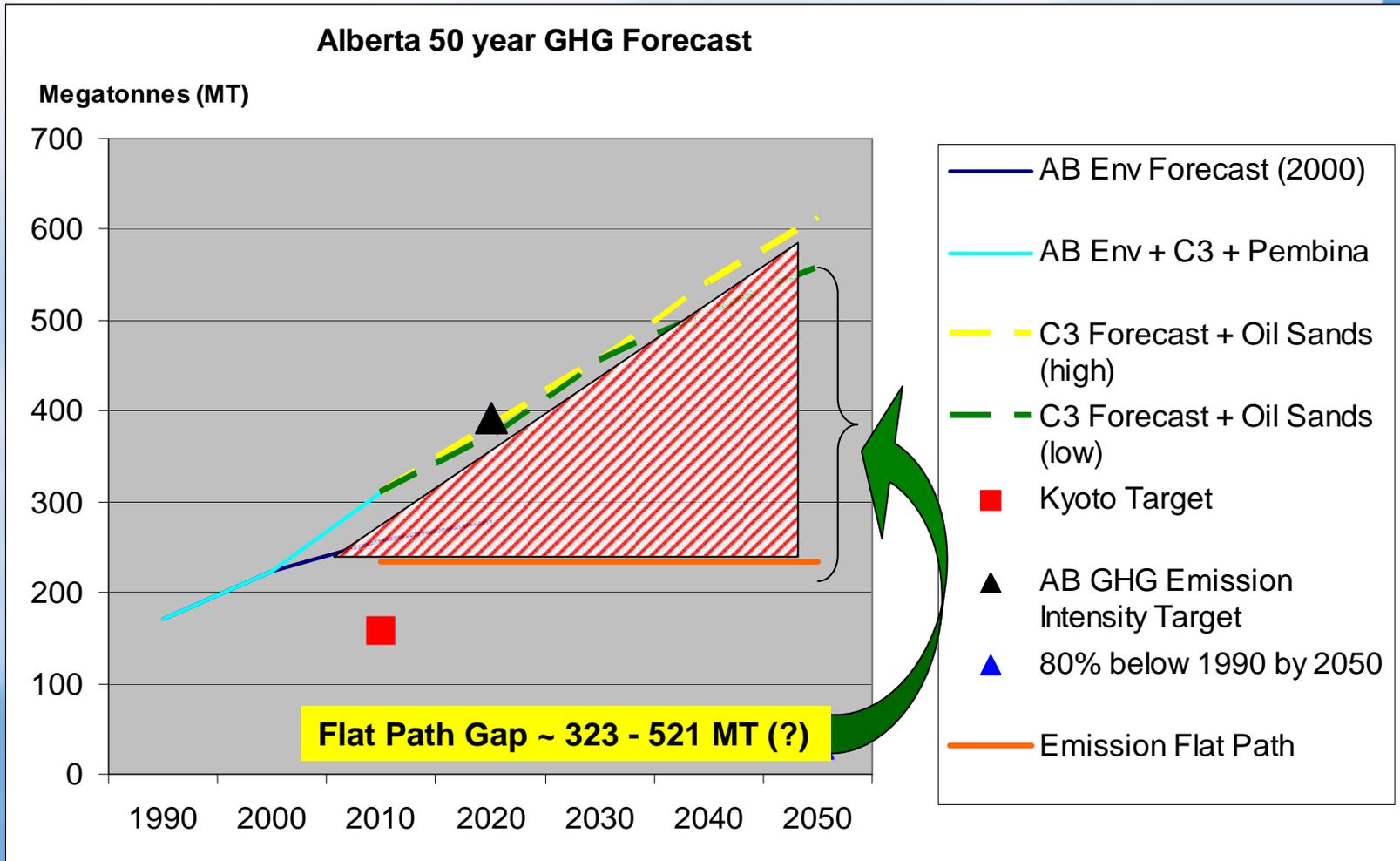
# CO<sub>2</sub> CONCENTRATIONS



Environment Canada

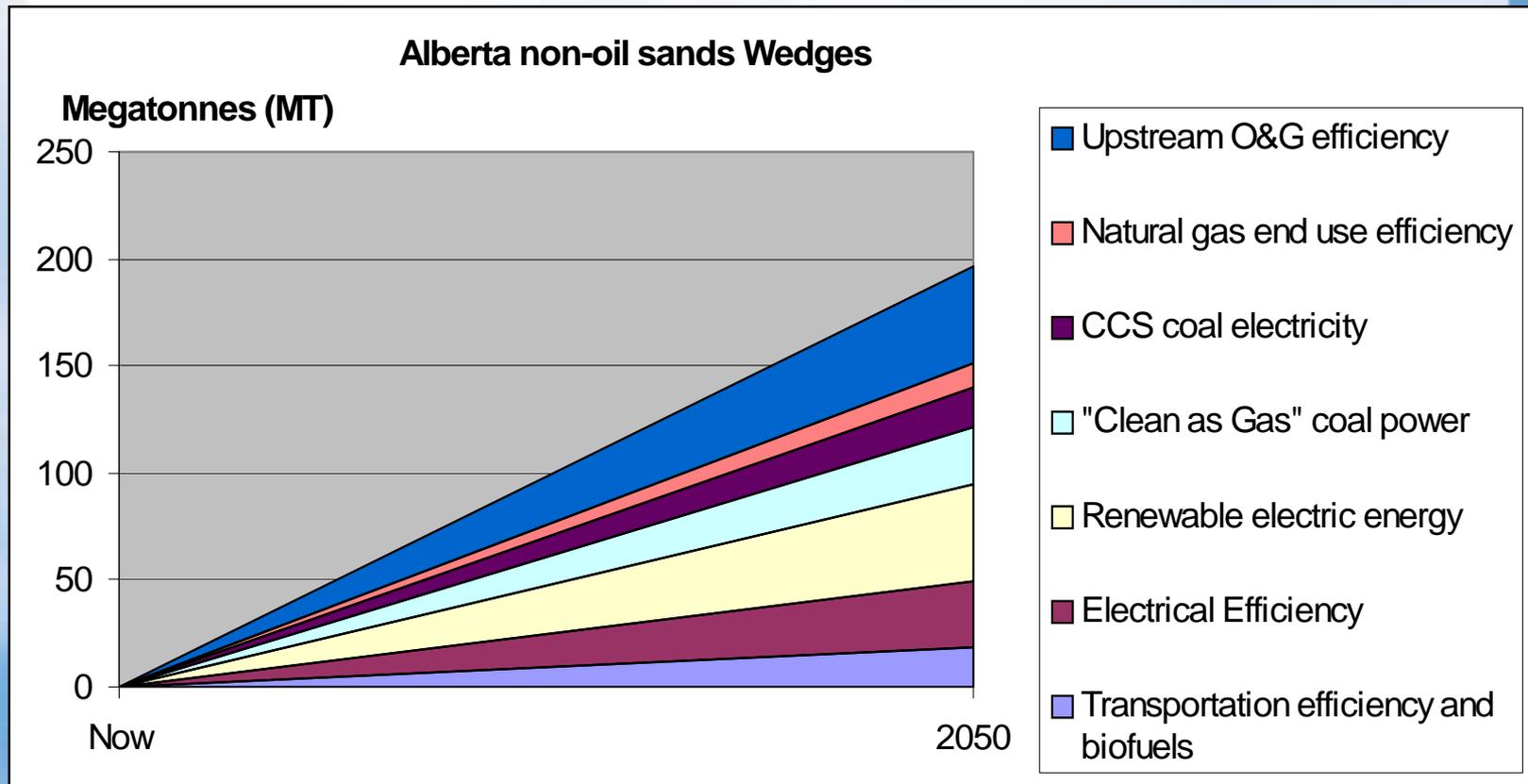


# ALBERTA 50 YEAR GHG FORECAST





# ALBERTA NON-OIL SANDS WEDGES (preliminary)



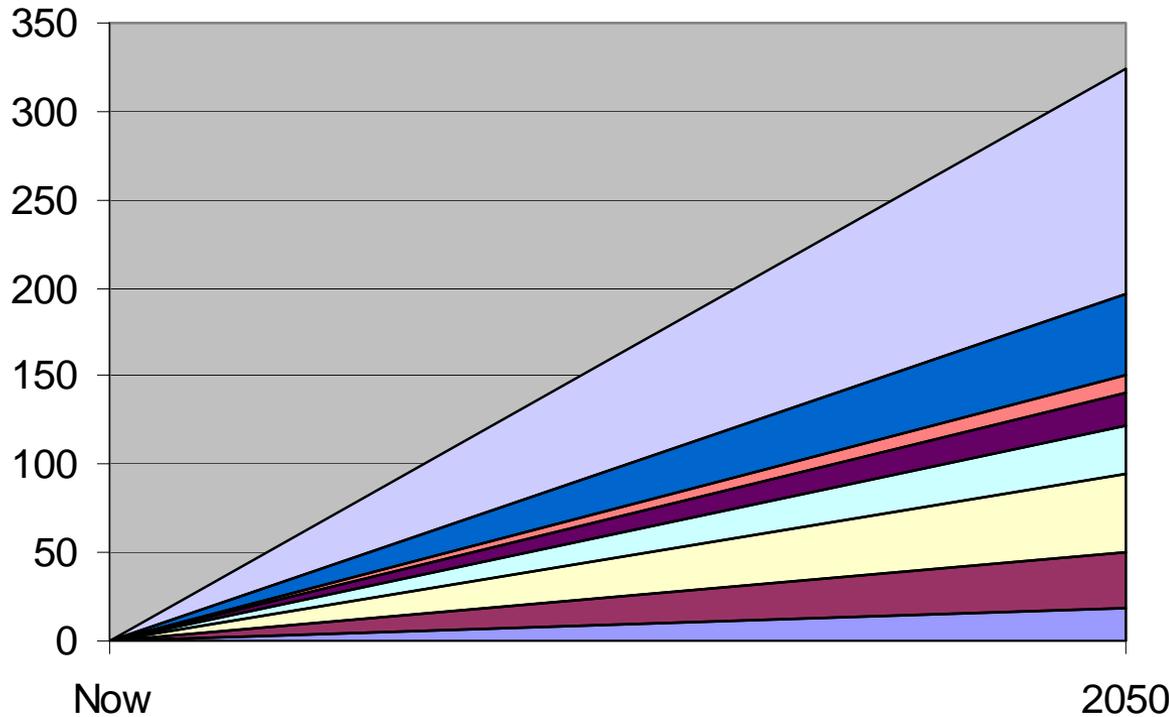
*Disclaimer: All numbers are preliminary and have not been reviewed or finalized.*



# ALBERTA WEDGES SCENERIO

Alberta Wedges (low oil sands)

Megatonnes (MT)



- CCS oil sands (low)
- Upstream O&G efficiency
- Natural gas end use efficiency
- CCS coal electricity
- "Clean as Gas" coal power
- Renewable electric energy
- Electrical Efficiency
- Transportation efficiency and biofuels

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# *Why Energy Efficiency?*

- Cheap
  - Energy conserved is often the cheapest energy available
- Revenue Enhancement
  - More product to market
- Helps stretch non-renewable resources
  - Natural Gas, Oil, Coal
- Reduces GHG emissions
  - Conservation = lower CO2 emissions