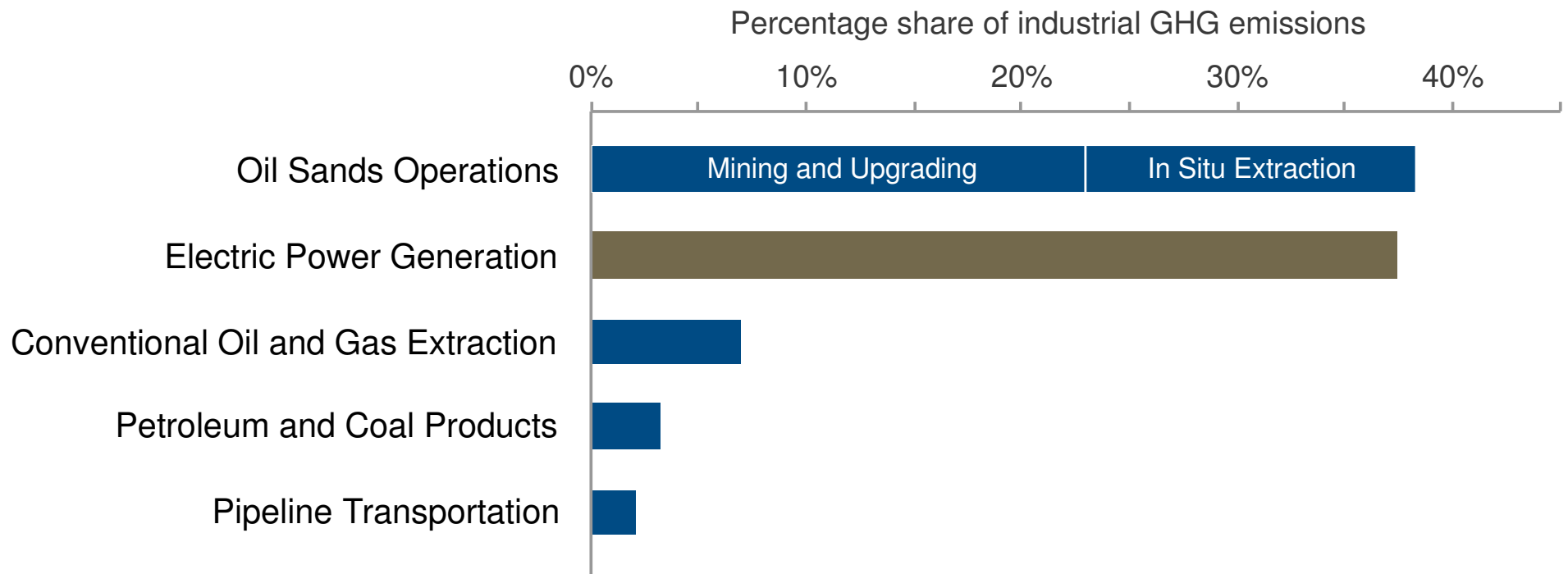


# Power Reductions

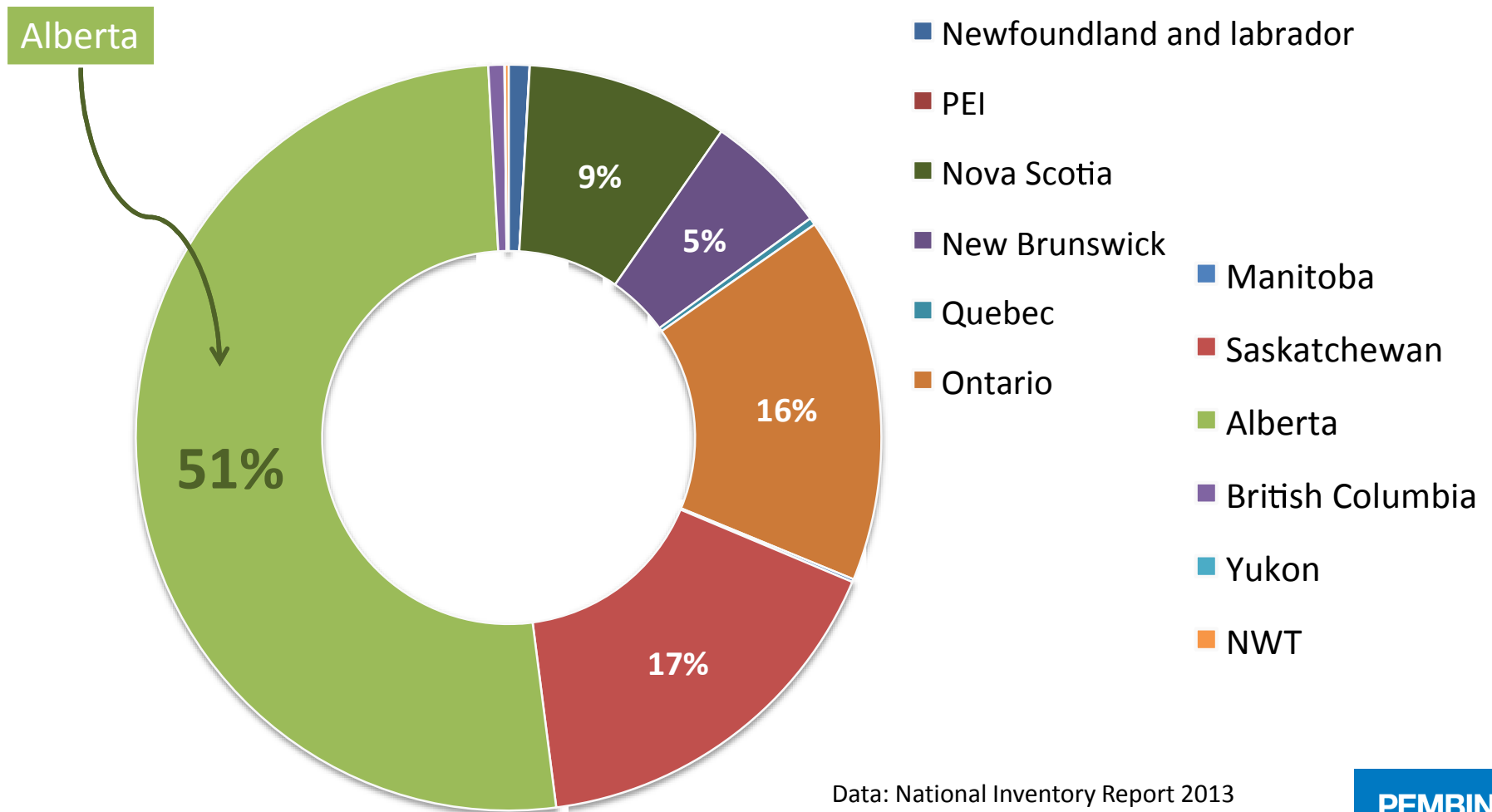
Alberta's Opportunity to reduce  
GHGs from its electricity sector

Benjamin Thibault, BSc, JD  
Electricity Program Director  
Pembina Institute

# Alberta 2012 GHG emissions

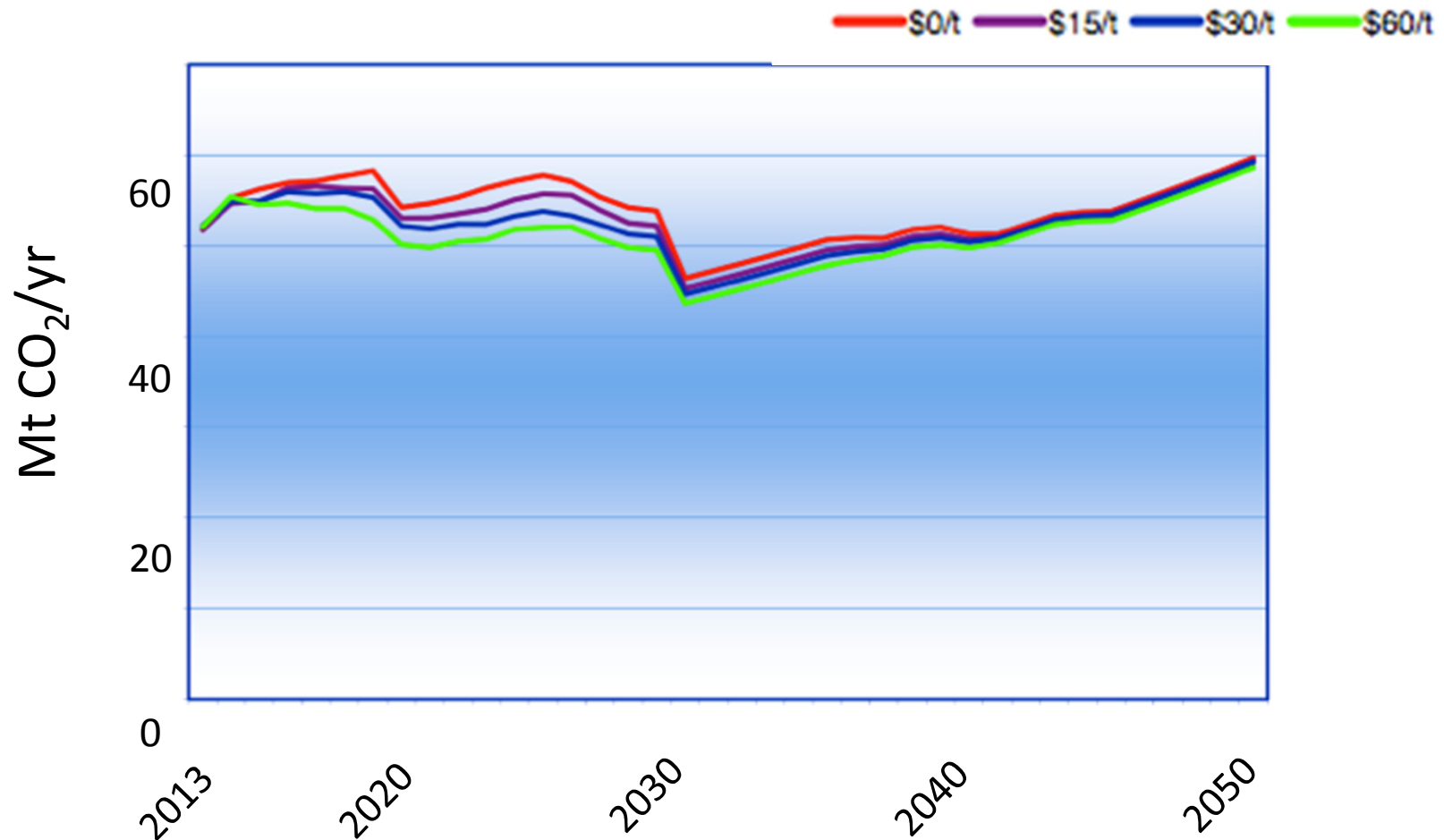


# Electricity GHG emissions by province



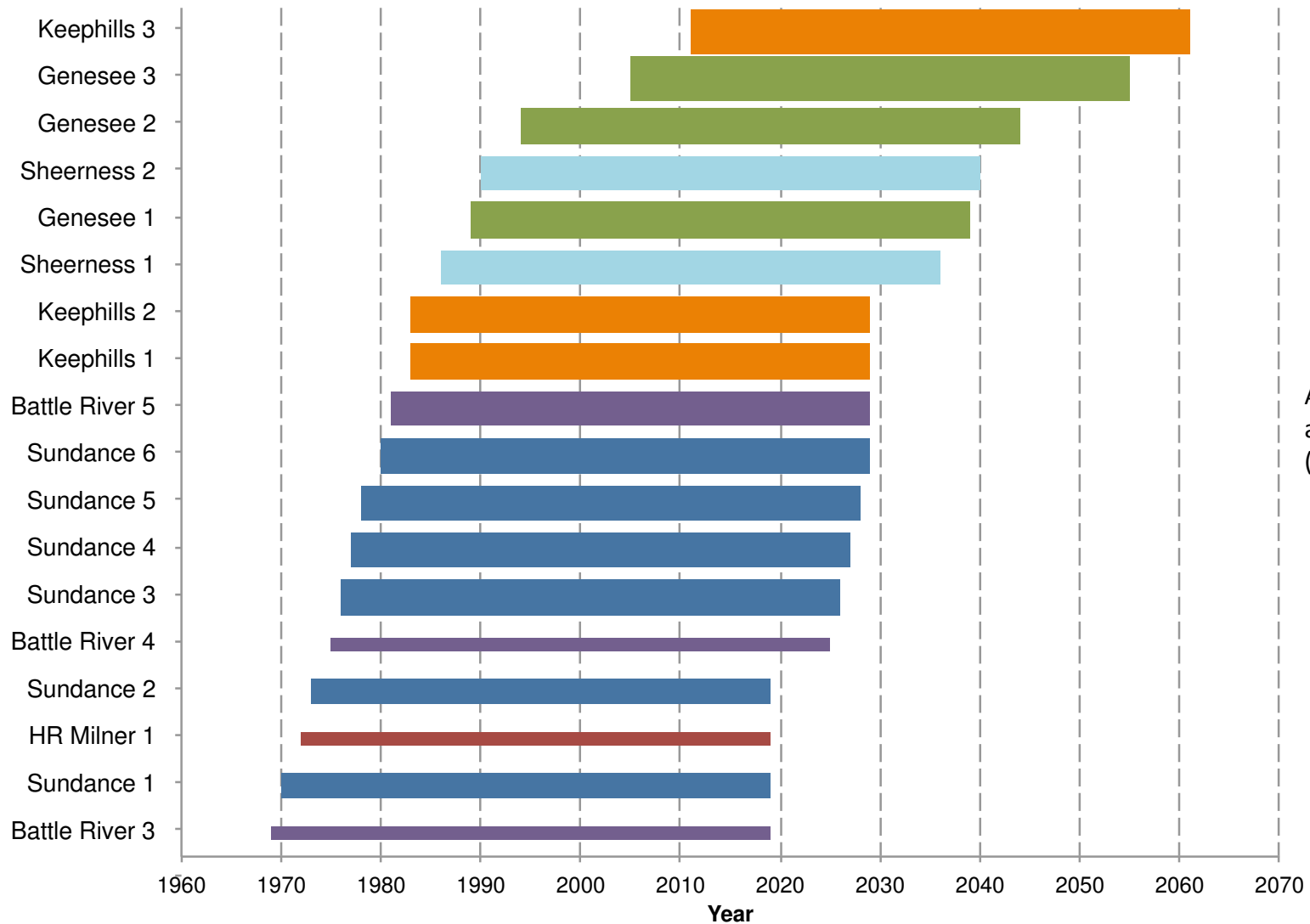
Data: National Inventory Report 2013

# Electricity sector emissions to grow



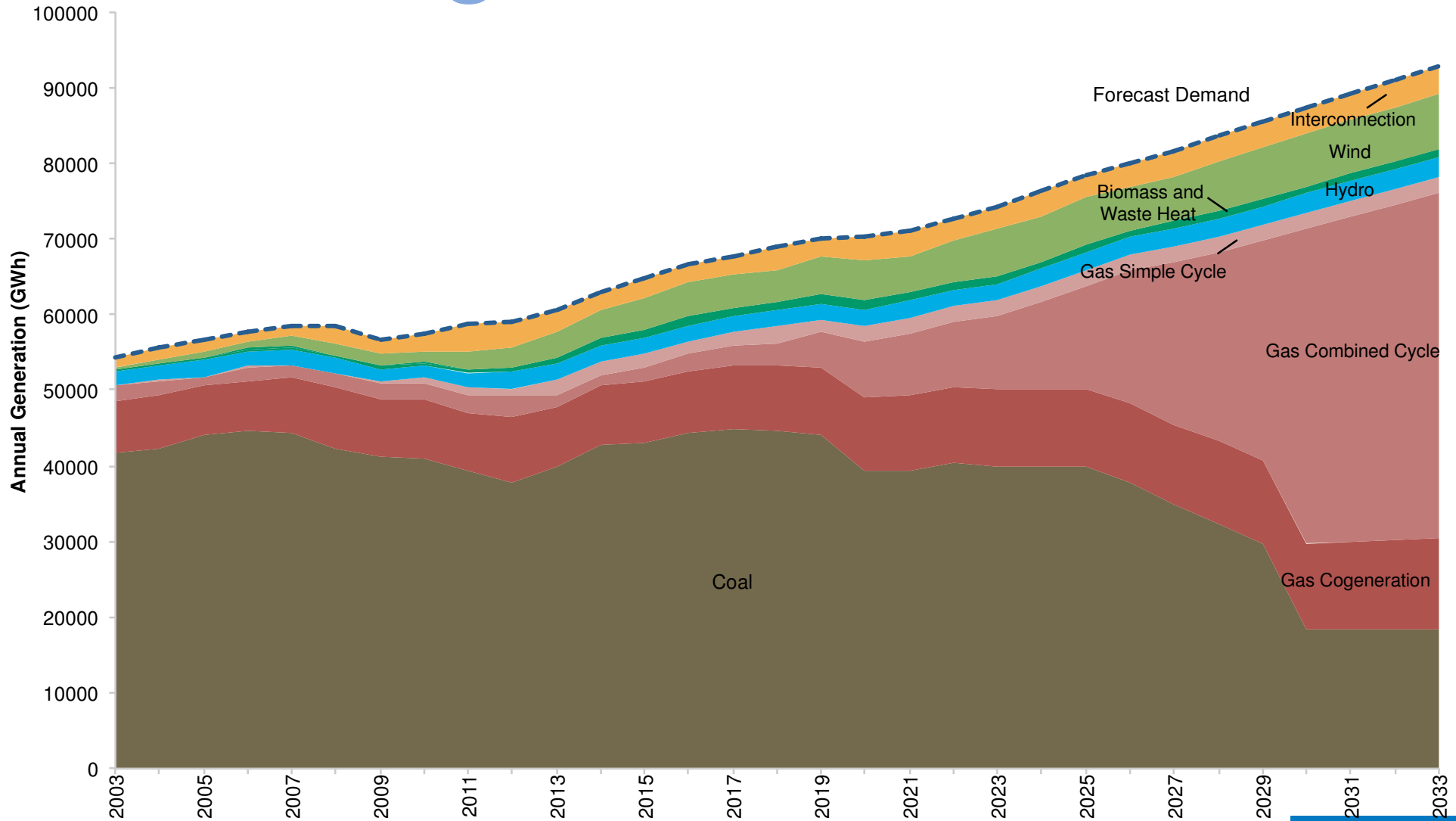
Source: IPPSA (2013) Trends in GHG Emissions in the Alberta Electricity Market

# Fed Regs: 50-yr limit



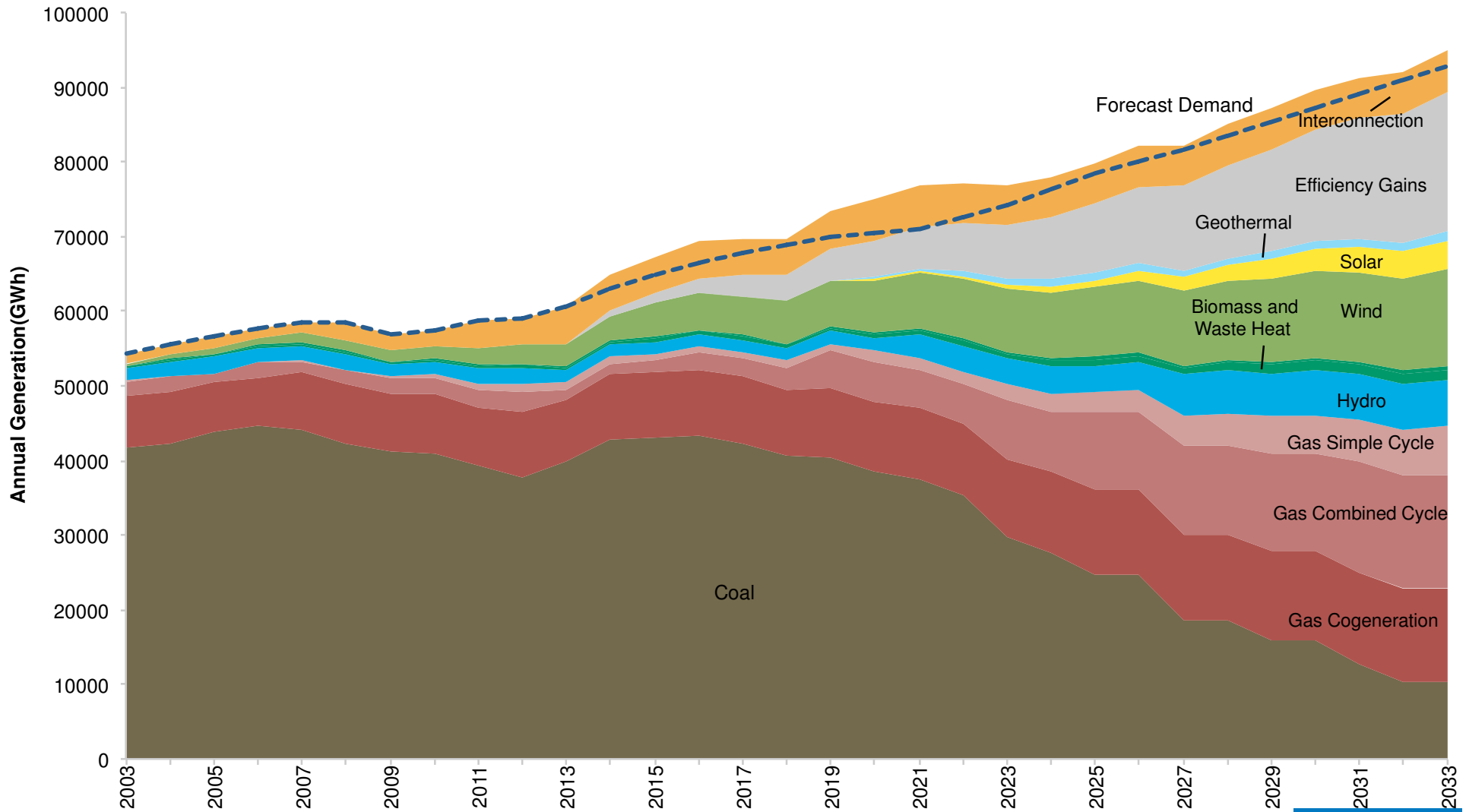
Asthma Society, et al., *Costly Diagnosis* (2013)

# Business as usual – Dash to gas



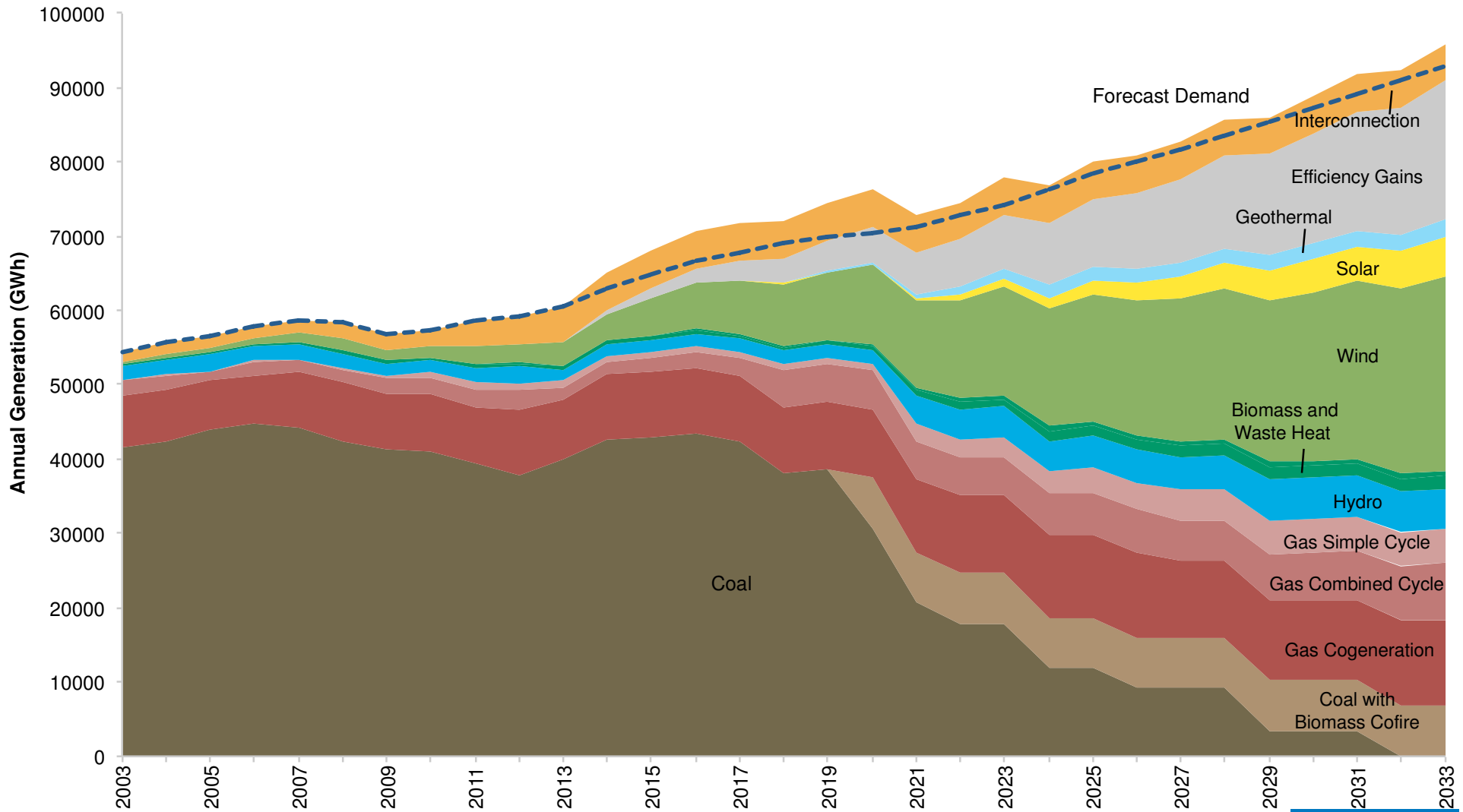
Glave & Thibault, *Power to Change* (2014)

# Diversify



Glave & Thibault, *Power to Change* (2014)

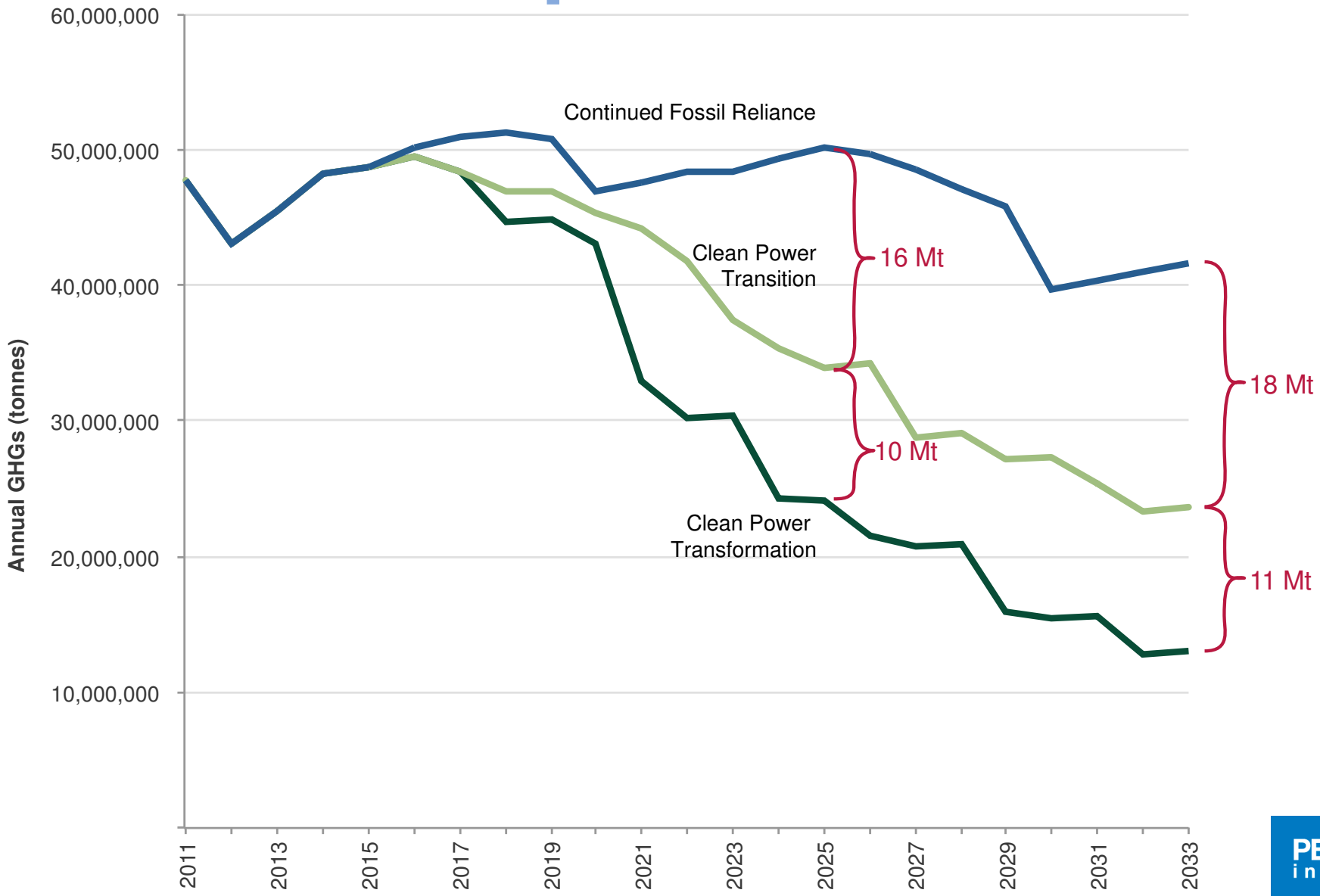
# Diversify + GHGs



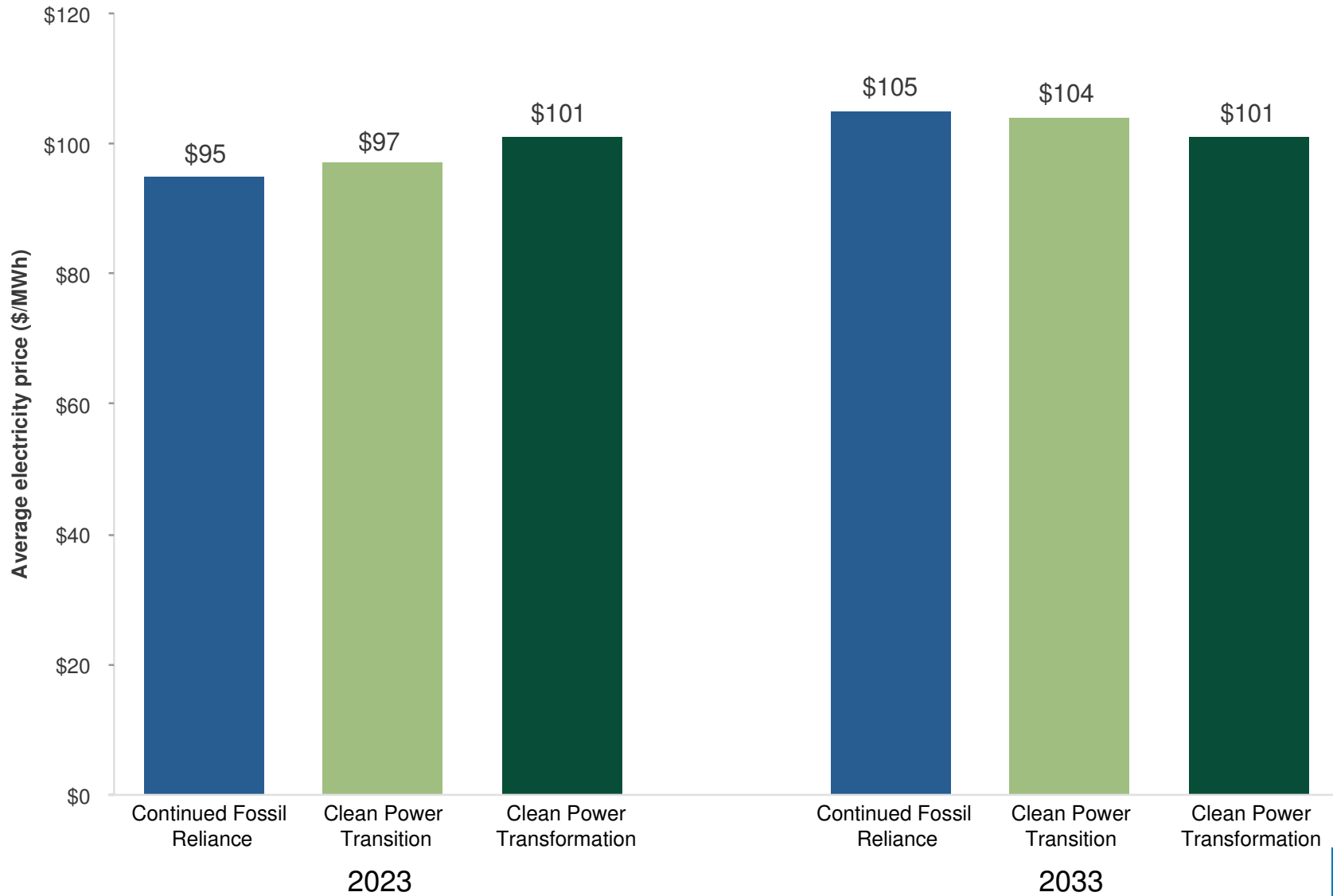
Glave & Thibault, *Power to Change* (2014)



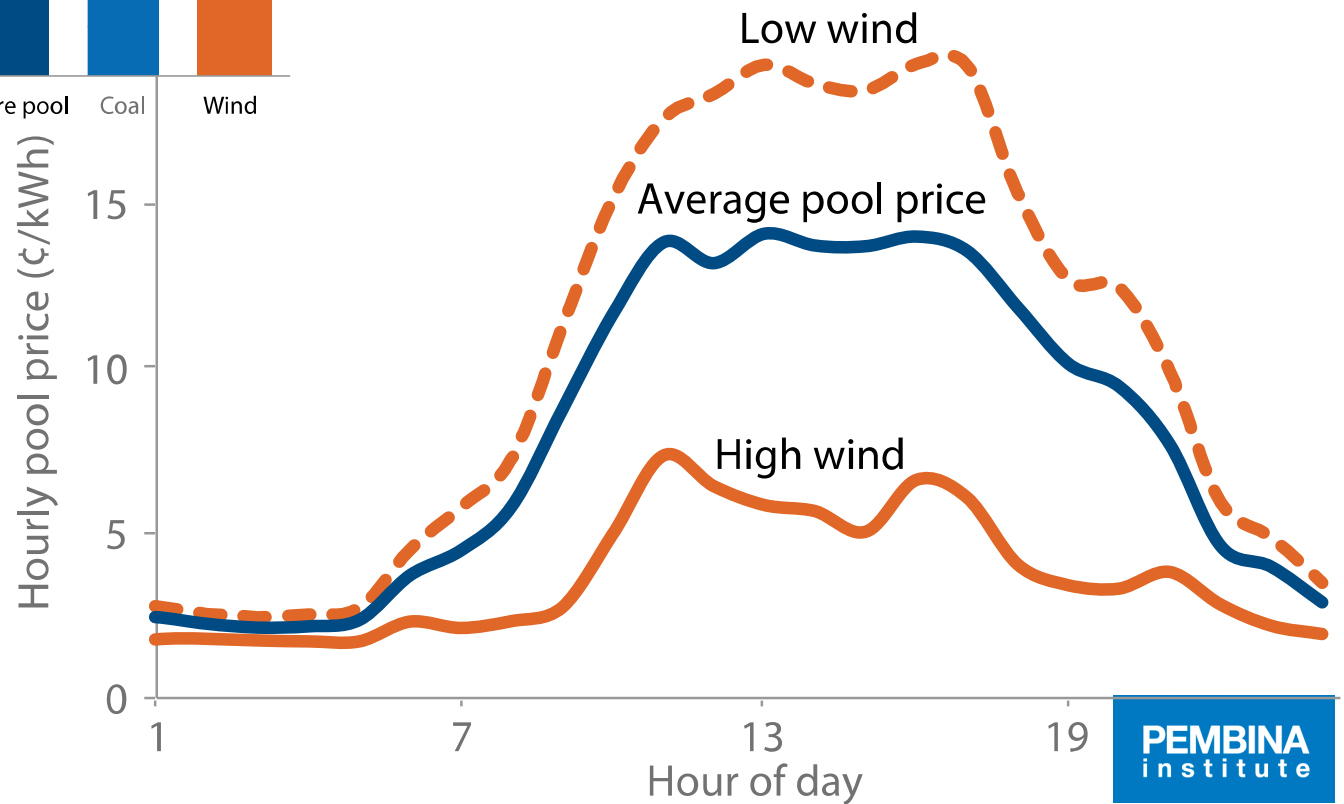
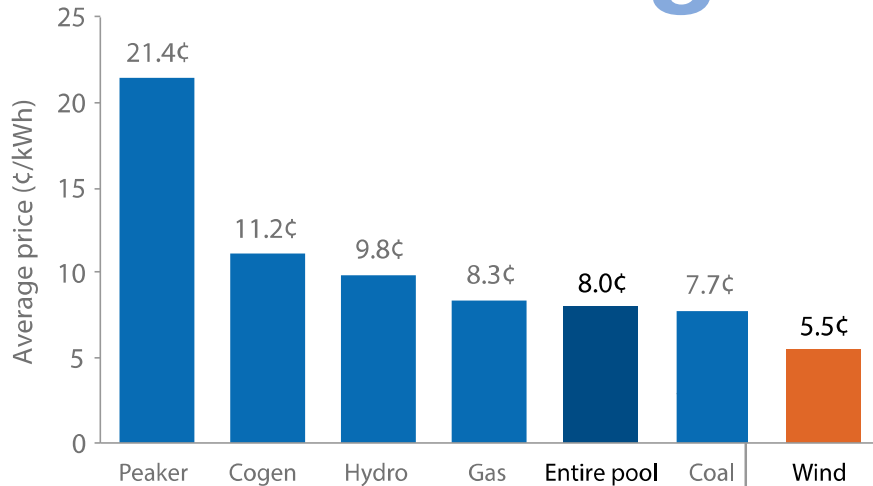
# Size of the prize



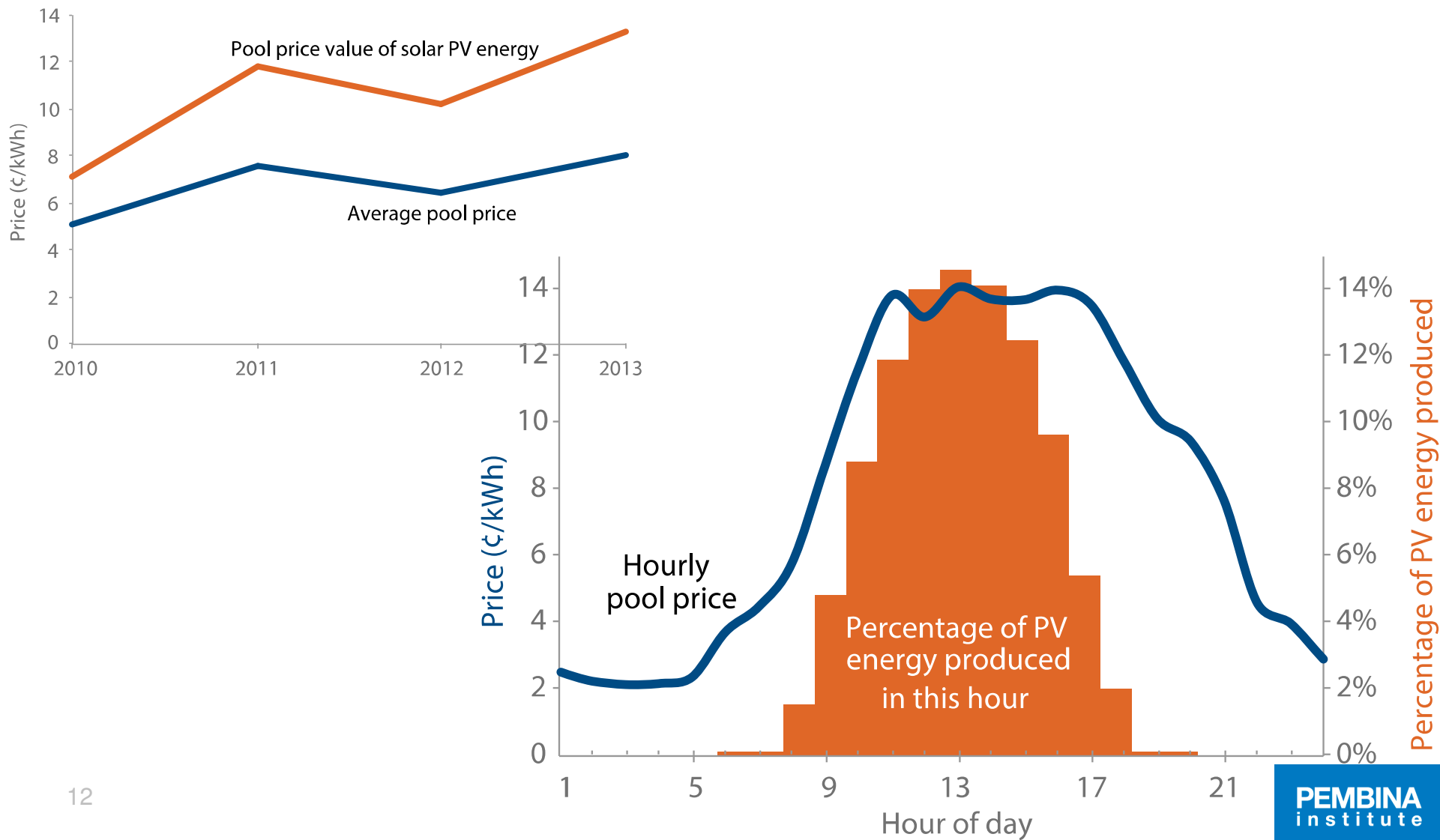
# Price impacts



# Fuel-free generation



# Fuel-free generation



# Policy needed

- Prevalent misconception: market incents lowest-cost generation
- Unfortunately, not the case:
  - Externalities
  - Profit-maximization
- Market uncertainty and lack of off-take agreements make it particularly difficult for capital-intensive investments, especially for new market entrants

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