

# Long Term Strategy

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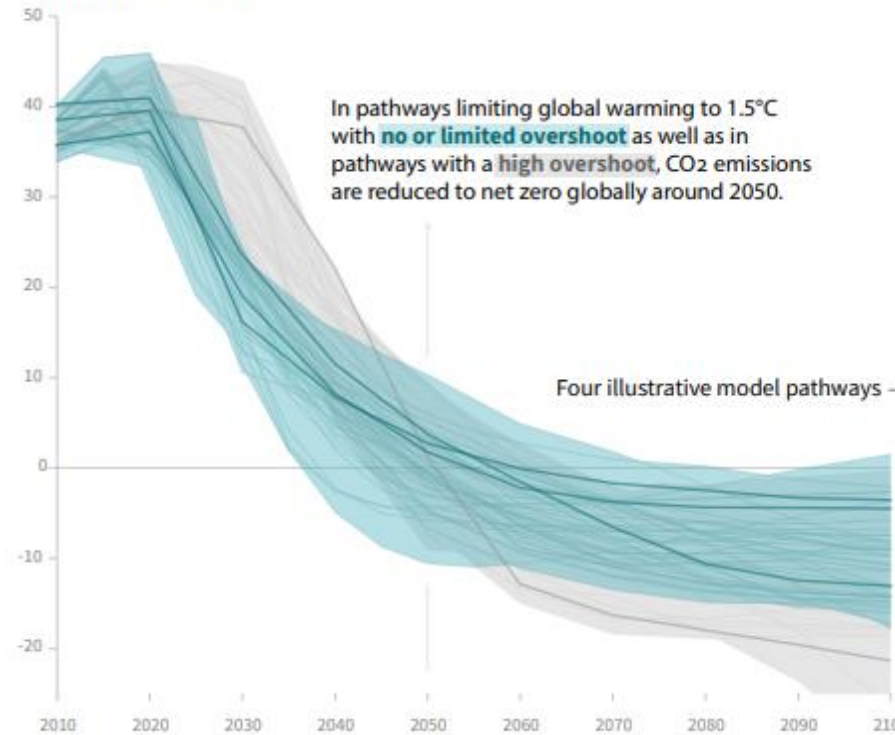


# Net zero emissions by 2050 is a good goal to plan towards

- Widely supported
- Clear end-state forces focus on transformation, not incrementalism
- Net zero needed for any temperature goal
- Work backwards
- Note that the modelled pathways are subject to change

Global total net CO<sub>2</sub> emissions

Billion tonnes of CO<sub>2</sub>/yr



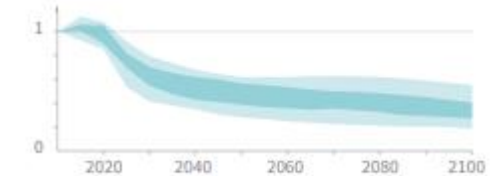
Timing of net zero CO<sub>2</sub>  
Line widths depict the 5-95th percentile and the 25-75th percentile of scenarios

Pathways limiting global warming to 1.5°C with no or low overshoot  
Pathways with high overshoot  
Pathways limiting global warming below 2°C (Not shown above)

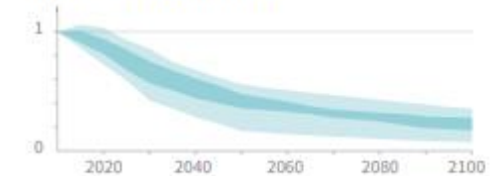
Non-CO<sub>2</sub> emissions relative to 2010

Emissions of non-CO<sub>2</sub> forcers are also reduced or limited in pathways limiting global warming to 1.5°C with **no or limited overshoot**, but they do not reach zero globally.

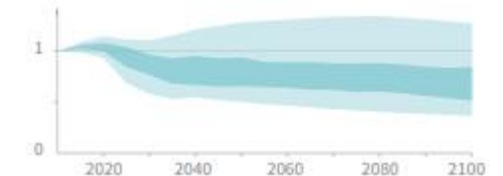
Methane emissions



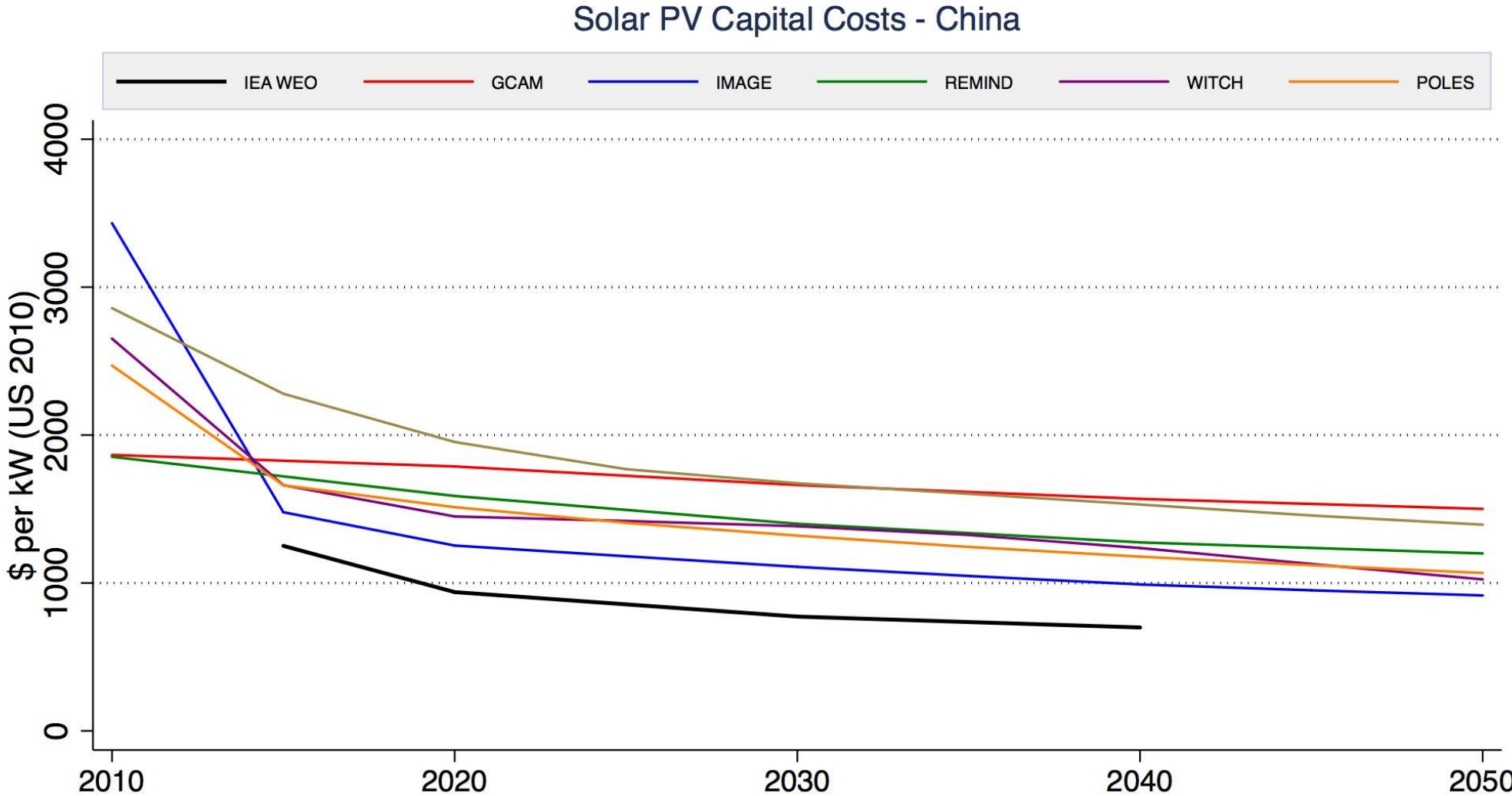
Black carbon emissions



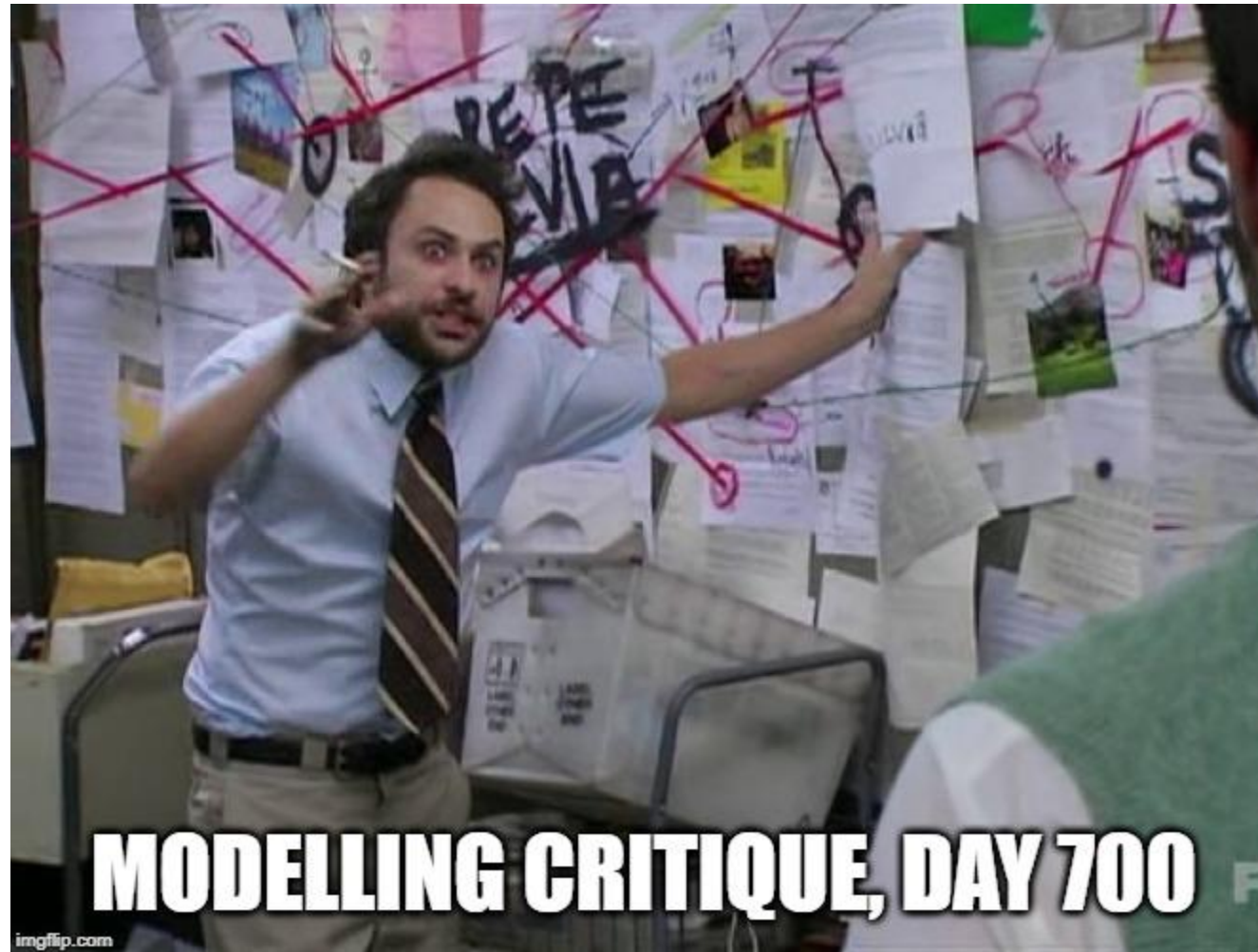
Nitrous oxide emissions



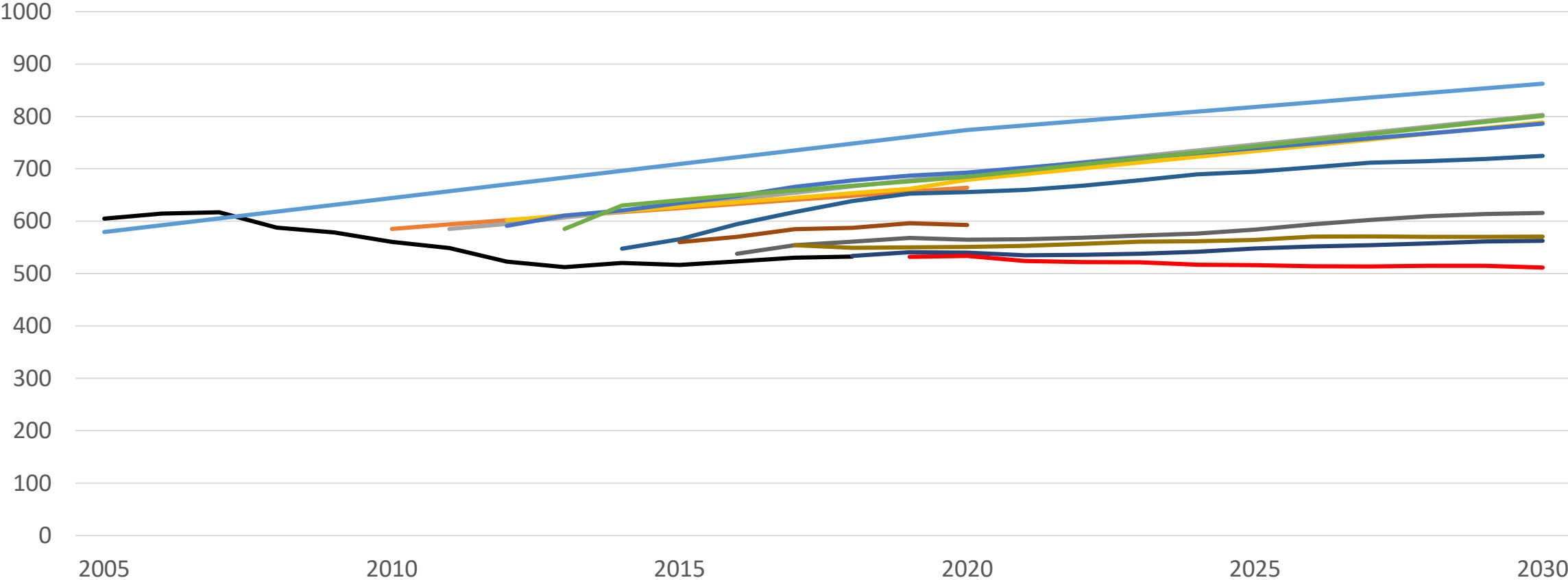
# Economic modelling won't help us much



# Economic modelling won't help us much



# Don't get hung up on BAU emissions projections



— Actuals      — 2008 projections      — 2009 projections      — 2010 projections      — 2011 projections  
 — 2012 projections      — 2013 projections      — 2014 projections      — 2015 projections      — 2016 projections  
 — 2017 projections      — 2018 projections      — 2019 projections

# Don't get hung up on BAU emissions projections



# Planning vs evolution

Markets are powerful, even if they can't do everything

Do we have time for technology neutrality?

Do we have confidence for technology partiality?

The Law Of Surprise?

# Planning vs evolution

