South Africa and coal
Backbone of the energy system

Source of primary energy for electricity, and liquid fuels
Reference least cost to 2050

(no policies)
Long term: industry is biggest taker of coal
Points of interest:

Only new RE
Storage vs Gas
New RE build rates
Significant storage by mid 2020s
Cost optimal mitigation

(South Africa in a “Well below 2°C” scenario)
Results for “well below 2C”....
Sector sensitivity to mitigation

![Bar chart showing sector sensitivity to mitigation](chart.png)
Coal production

![Graph showing coal production](image)

- **Reference**
- **Cost optimal mitigation**

Coal production is expected to decrease significantly over the next 35 years, with the cost-optimal mitigation scenario showing a more pronounced decline compared to the reference scenario.
Conclusions

- Without any policy: coal production declines based on cost (accelerated in <= 2C scenario)
- Rollout of storage for power sector – new industries in SA
- Coal for industry consumption – role of industry and businesses