Tracking progress to Australia's 2020 target

Julia Gardiner

Australia's 2020 target

Quantified economy-wide emission reduction

5% below 2000 levels by 2020

- Coverage:
 - All inventory sectors (KP classifications)

Coverage

7 gases (CO₂, CH₄, N₂O, HFCs, PFCs, SF₆, NF₃).

<u>Sectors – 2006 IPCC Guidelines:</u>

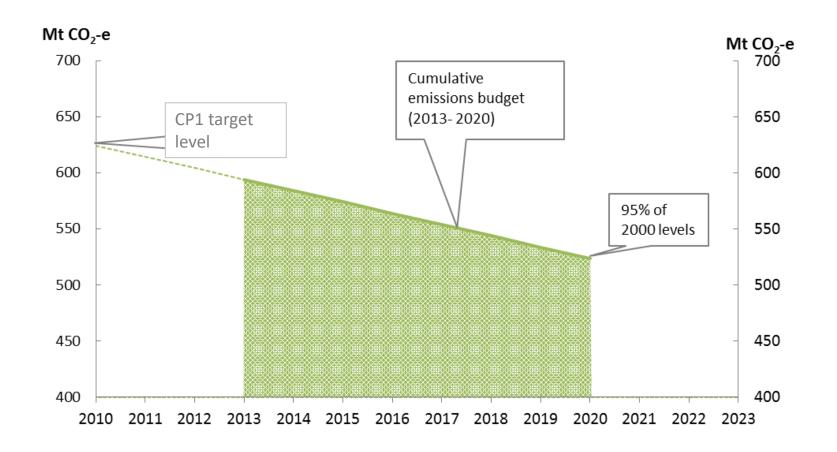
- energy
- industrial processes and product use
- agriculture
- waste
- LULUCF KP classifications
 - deforestation, afforestation, reforestation, forest management, cropland management, grazing land management and revegetation

Accounting

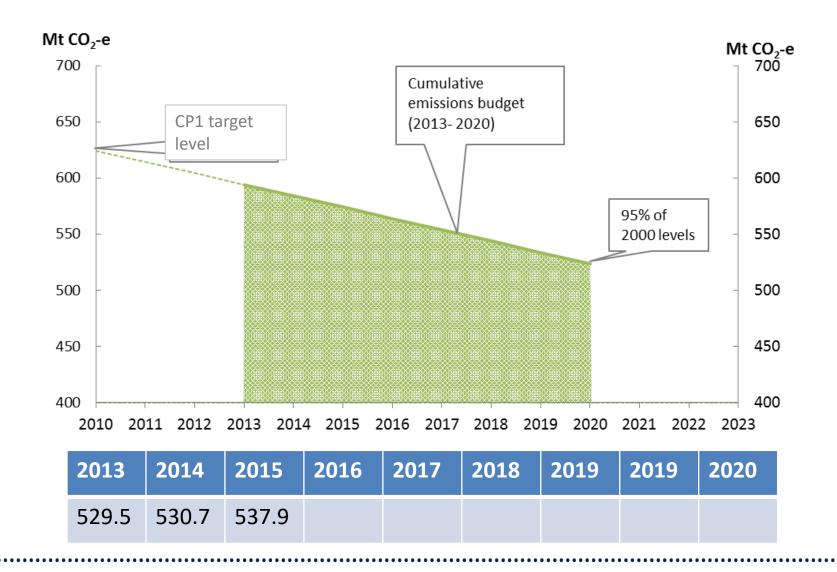
- Same treatment of all sectors
 - Included in base year, and reported years
 - LULUCF: KP classifications

- Emissions budget 2013- 2020
 - Cumulative emissions over the period
 - Calculated as a trajectory to 2020

Emissions budget – 4,500 Mt CO₂-e



Emissions budget – 4,500 Mt CO₂-e



Progress towards 2020 target

	Emissions (Mt CO ₂ -e)
Emissions budget 2013-2020	4500
Cumulative emissions 2013-2015	1598
Emission budget for remaining period (2016-2020)	2902

- Projected emissions 2016-2020 = 2755
- Estimated end of period balance = -145

Progress towards 2020 target

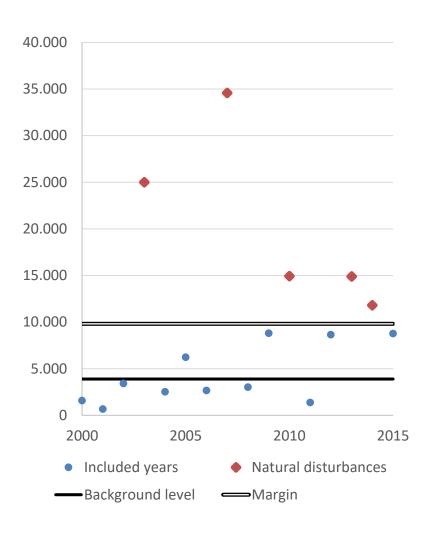
CALCULATION OF 2020 EMISSIONS REDUCTION TASK	EMISSIONS (MT CO ₂ -E)
Cumulative emissions 2013-2020	4354
Target trajectory 2013-2020	4500
Unadjusted emissions reduction task	-145
Voluntary action	8
Waste Protocol units (CERs)	-28
Emissions reduction task	-166
Carryover 2008-2012	-128

LULUCF

- KP land activity classifications.
- For all LULUCF classifications, emission estimates of net emissions in the reporting period compared with estimates of net emissions in the base-year, 2000

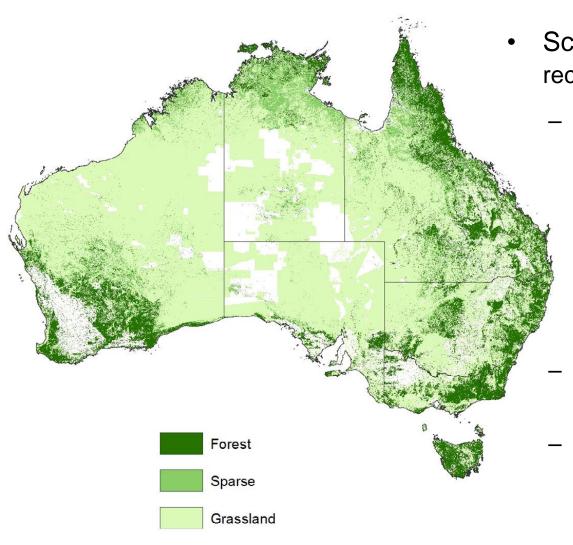
Net emissions / removals (Kt CO ₂ -e)	2000	2015
Land Use, Land-Use Change and Forestry KP	69,565	4,568
Deforestation	68,754	31,138
Afforestation and reforestation	-7,130	-12,614
Forest management	-7,517	-18,394
Cropland Management	1,063	-4,180
Grazing land management	14,218	8,730
Revegetation	178	-112

KP LULUCF – Natural disturbances



- Applied to Wildfires on FM lands
- IPCC Default method
 - Background level: average of 2000-2012 excluding outliers. Margin: 2x standard deviation
 - Natural disturbances (beyond control) when BL + M exceeded. Only report background level of fires
 - Excludes subsequent recovery.
 Include emissions from salvage logging, subsequent land use change
- Applied consistently to Base Year and reporting period

LULUCF – KP LULUCF / UNFCCC



Scope differences, but can be reconciled:

Narrow approach to Forest
 Management: management
 practices for sustainable
 production of wood and wood
 fibre occur

: FL-FL = 132 Mha;

: FM = 11 Mha (NIR 2015)

 UNFCCC Voluntary reporting of Wetlands supplement activities

Classification differences

Inventory coverage

	NIR	2020 target	CP2 target	Paris NDC (2030)
Sectors	Energy IPPU Agriculture Waste	Energy IPPU Agriculture Waste	Energy IPPU Agriculture Waste	Energy IPPU Agriculture Waste
LULUCF	UNFCCC land categories forestland, cropland, grassland, wetlands, settlements, other	KP Classifications D, AR, FM, CM, GM, RV	KP Classifications D, AR, FM, CM, GM, RV	UNFCCC land categories forestland, cropland, grassland, wetlands, settlements, other

Mitigation actions

Summary:

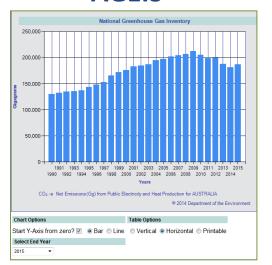
- Emissions Reduction Fund
 - Safeguard mechanism
- HFC phase-down
- Ministerial on Vehicle Emissions
- Renewable Energy Target
- National Energy Productivity Plan
- Australian Renewable Energy Agency
- Clean Energy Finance Corporation

National Greenhouse Accounts

National Inventory Report



AGEIS



Economic Sector

Quarterly Updates



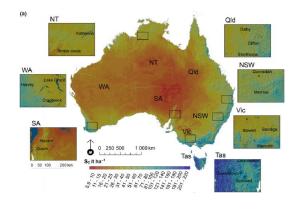
Reporting



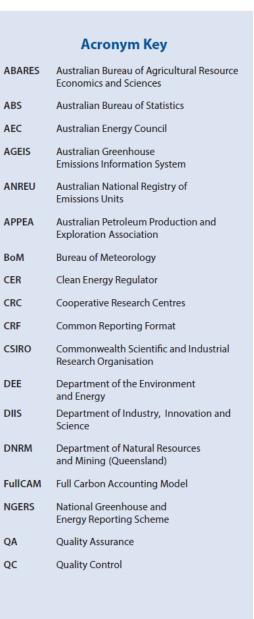
State & Territory Reporting

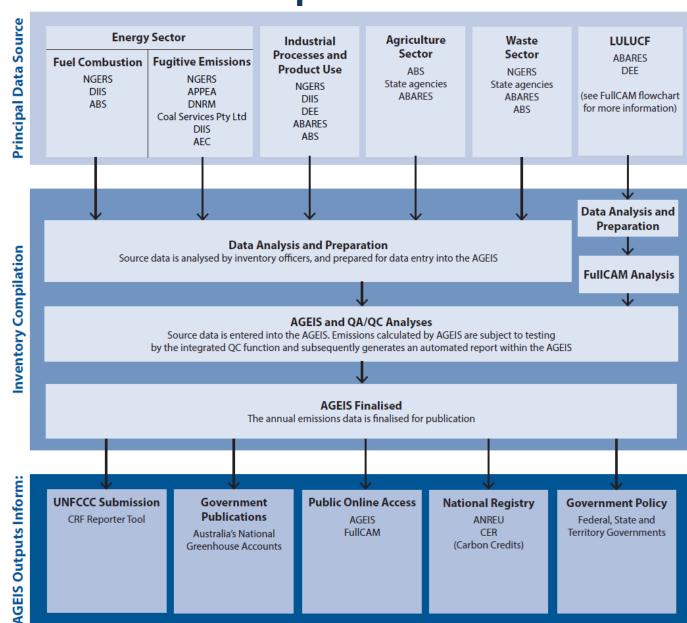


FullCAM



National Inventory Asset Structures and Relationships





National Greenhouse and Energy Reporting Scheme (NGERS)

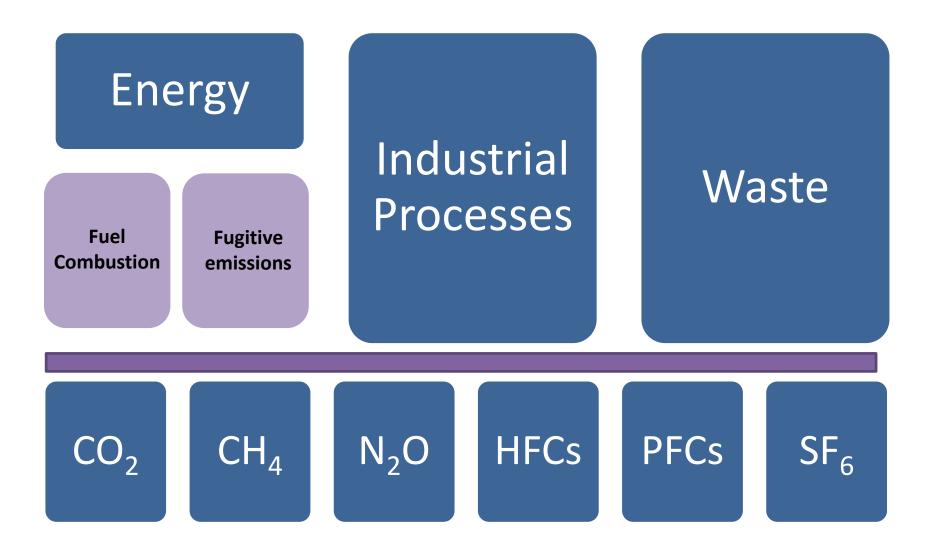
- National system for emissions and energy reporting, since 2008
- Obligation to report by facilities or corporate groups above a threshold
- Detailed rules for reporting emissions, energy consumption and energy production







National Greenhouse and Energy Reporting Scheme (NGERS)

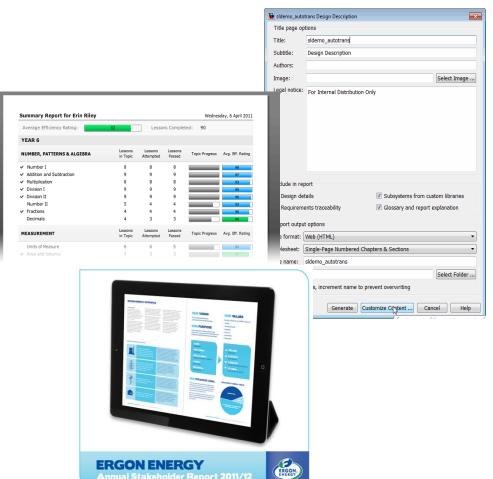


National Greenhouse and Energy Reporting Scheme (NGERS)

 NGER Regulations set out all the detail that must be reported

Online reporting tool

 Must report detail such as calculations, methods, criteria, emissions factors



Questions