Just the Facts

Climate Change

Welcome to the Launch of ZeroSE

Featuring **Dr John Hewson, Honorary Professorial Fellow, ANU Crawford School of Public Policy**

- Please join with your **microphone on mute**
- If possible, please make sure your **name is showing correctly** in your own Zoom frame (move your mouse over the … in the frame)
- Questions will be taken in the chat feature

Zero SE

A Beyond Zero Future for South East NSW

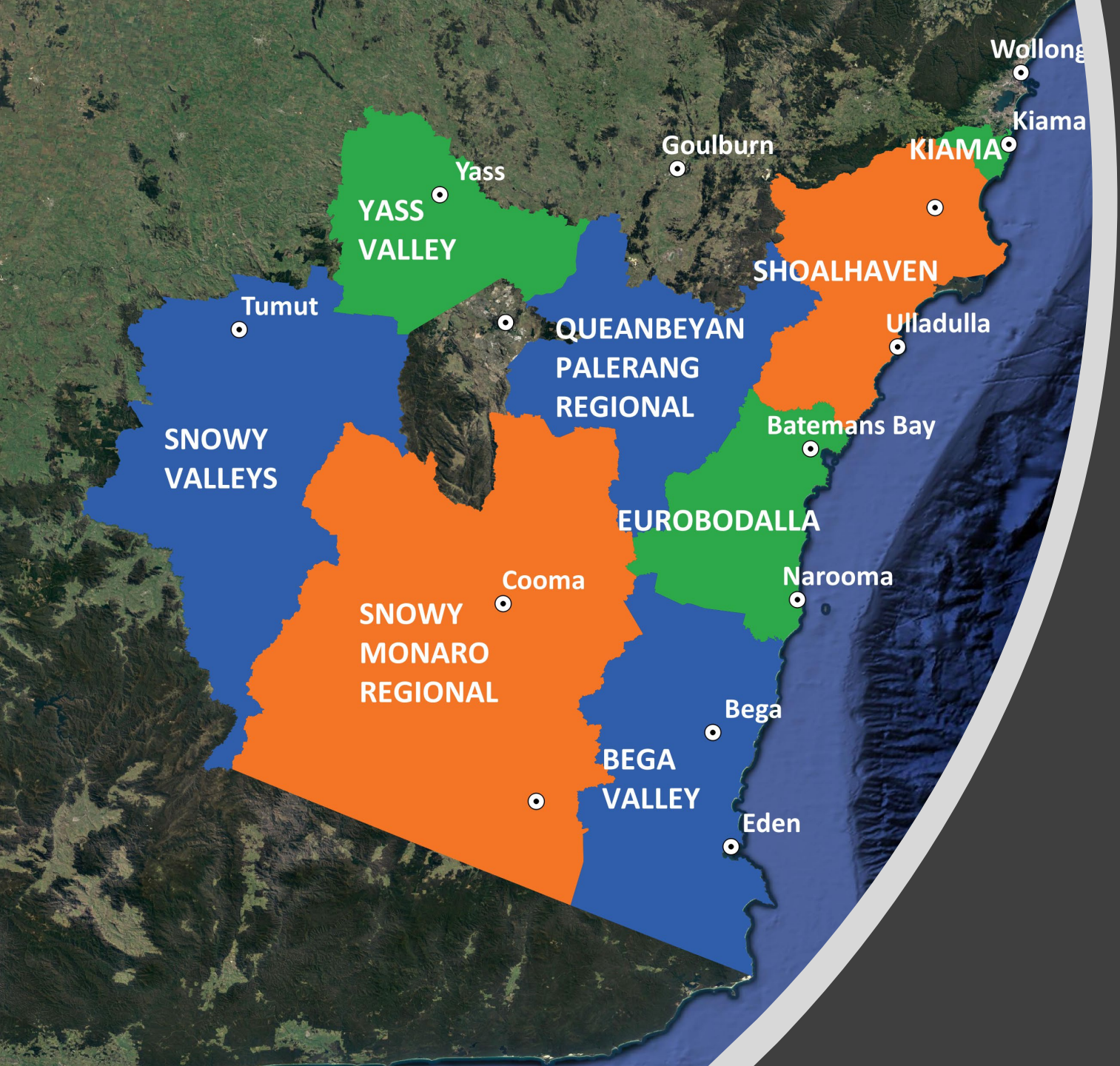
A Beyond Zero Future
for South East NSW

Jack’s story

CLIMATE ACTION NOW OR ...?
IRONMAN
350

A Beyond Zero Future
for South East NSW

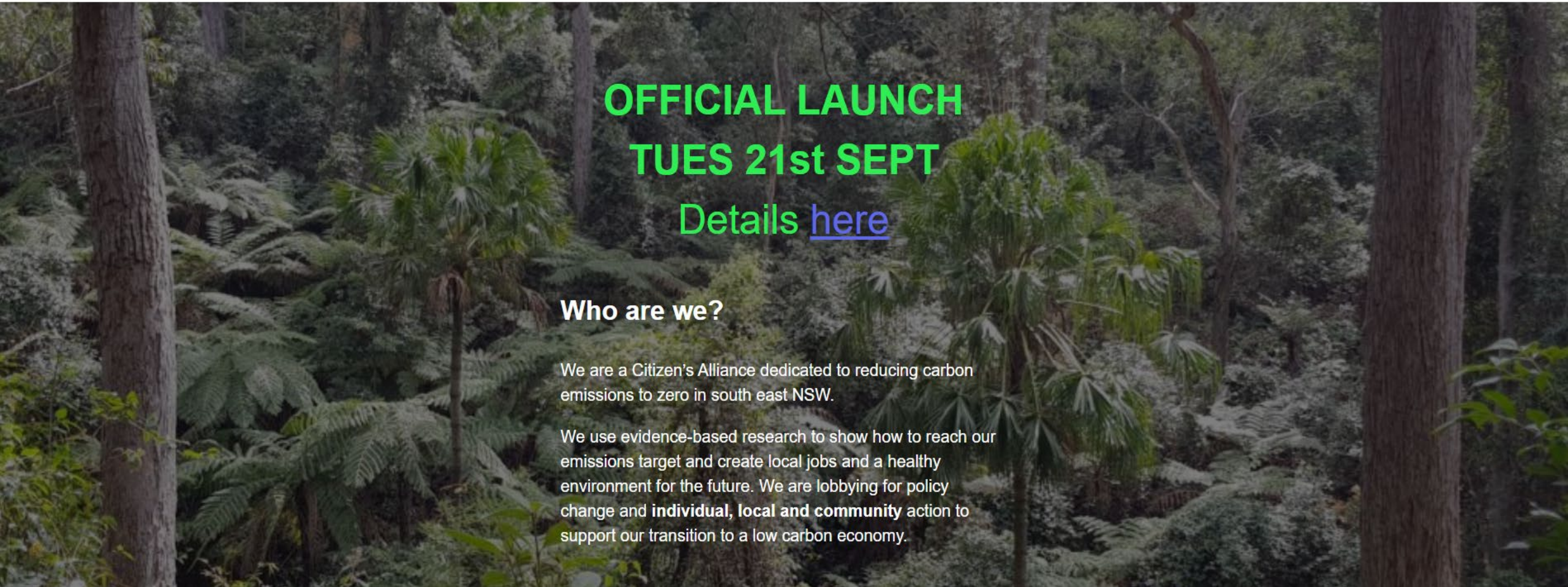
ZeroSE – Just the facts



ZeroSE

Local Government Areas

A Beyond Zero Future for South East NSW



OFFICIAL LAUNCH
TUES 21st SEPT
Details here

Who are we?

We are a Citizen's Alliance dedicated to reducing carbon emissions to zero in south east NSW.

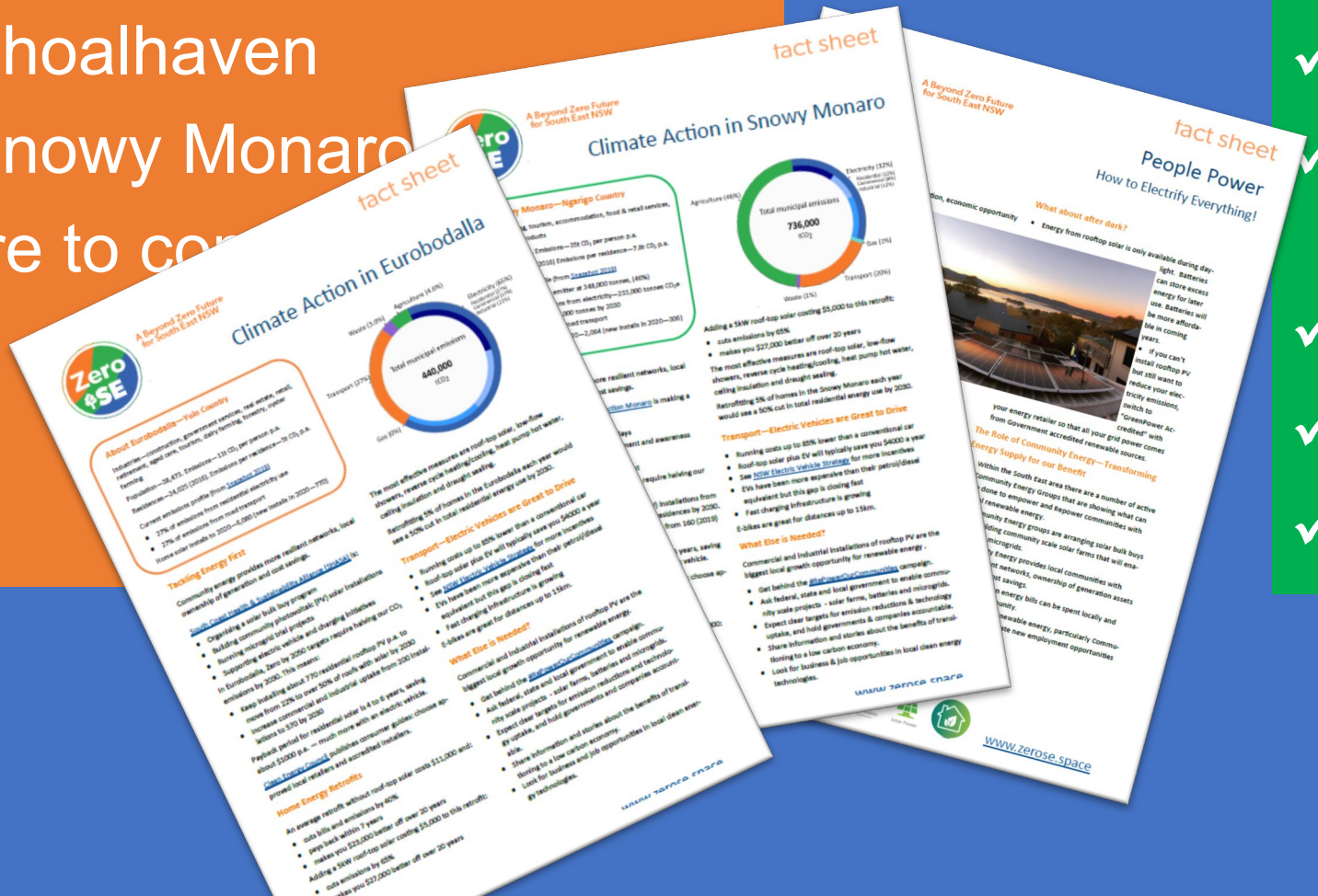
We use evidence-based research to show how to reach our emissions target and create local jobs and a healthy environment for the future. We are lobbying for policy change and **individual, local and community** action to support our transition to a low carbon economy.

ZeroSE Fact sheets

By Local Government Area

- ✓ Bega Valley
- ✓ Eurobodalla
- ✓ Shoalhaven
- ✓ Snowy Monaro

[More to co



By Solution

- ✓ People Power Electricity
- ✓ Energy saving retrofits
- ✓ Electric vehicles
- ✓ Reforesting Agricultural land
- ✓ Soil Carbon
- ✓ Livestock Methane
- ✓ State Forests

ZeroSE Partners

Climate Action Monaro

Bushfire Survivors for Climate Action

350 Eurobodalla

#ClimateActNow www.cansign.org.au

Coastwatchers
Eurobodalla's voice for nature

Zero SE

SHASA
Southcoast Health and Sustainability Alliance

RE POWER SHOALHAVEN

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Electrifying everything

John Clark, Repower Shoalhaven

Electrifying everything – What is it?

- ✓**Households:** solar+battery, replace other fuels (reverse cycle air con, heat pump HWS), efficient devices (LED lights, low-flow showers), buy Greenpower … & Electric Vehicles & E-bikes

- ✓**Business and Institutions:** rooftop solar+batteries, energy efficient plant & equipment, buy renewable power (PPA), EVs

Electrifying everything – Opportunities

- **Household savings (annual)** ↑

Solar **$1000** | Replace with electricity **$1600** | Electric Vehicle **$4000**

- **Business savings** ↑
- **Jobs** - up to **560** new jobs ↑
- **Investment** - **$655** million to **2030**
- **Healthy kids** – vehicle, and wood and gas fire emissions ↓
- **CO_2 Emissions** - **50%** reduction ↓ by **2030**

Electrifying everything – Projects & partnerships

Shoalhaven Community Solar Farm

A Model for more Solar Farms (SFs)!:

- ✓ A mid-scale SF - 3 MW
- ✓ Partnerships - Repower Shoalhaven, Council, Flow Power
- ✓ Community investment - $500,000
- ✓ Community dividend - $210,000
- ✓ Renewable power for the community
- ✓ $2.1 million local spending, 40 local construction jobs, 3 ongoing P/T jobs

A solar farm for **your** community

Solar Power

Renewable Energy

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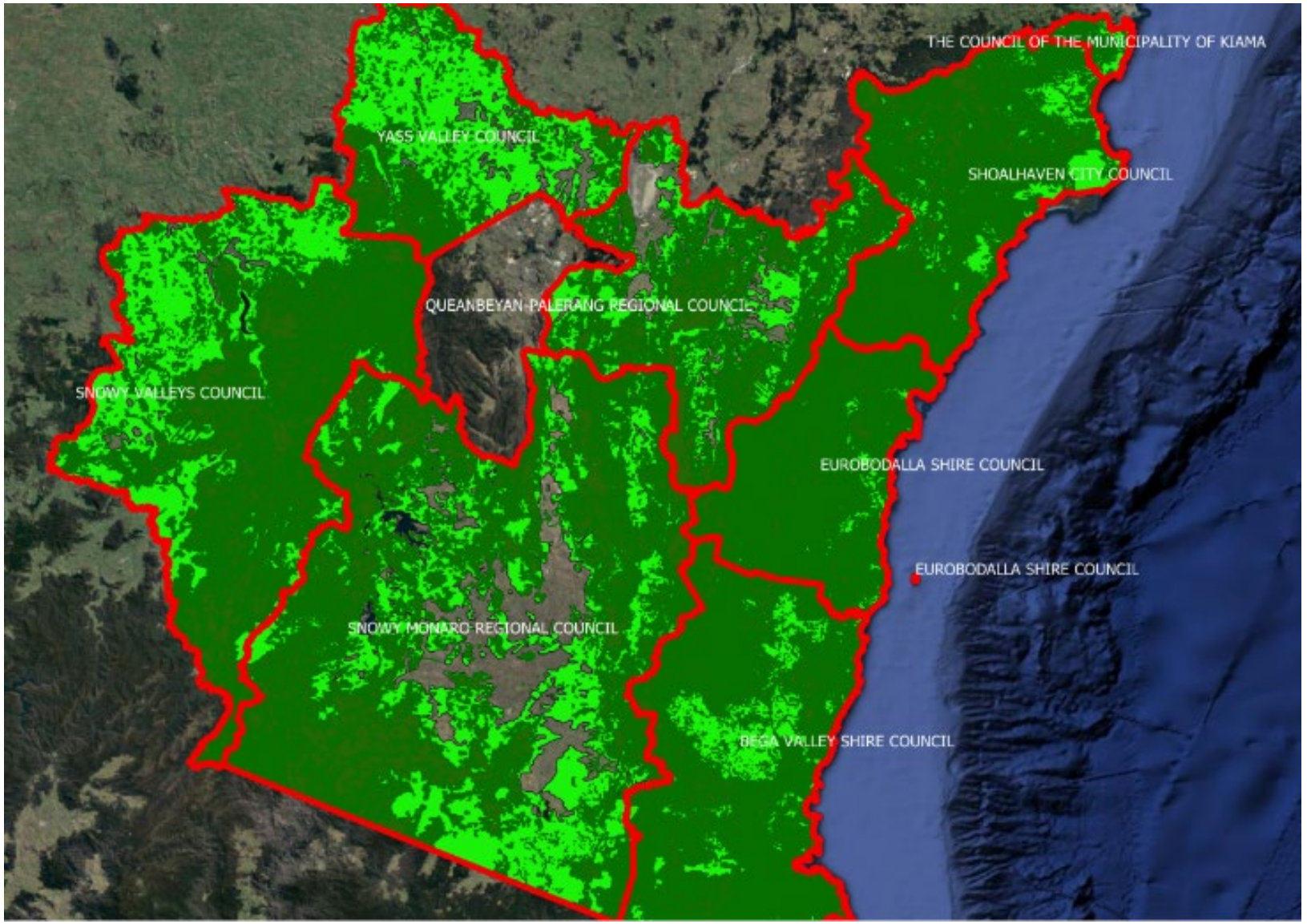
Farmlands and Forests

Dr Margaret Mackinnon

Chair, Upper Snowy Landcare Network

Grazing land and forests



- 50,000 km²
- Half grazing
- Half forests
  - ¼ State Forests
  - ¾ National Parks

Opportunities for Drawdown and Avoided Emissions

	Grazing land				Forests	
	Native pastures and vegetation	All pastures	Creeklines, ridgelines, fencelines	Livestock	State Forests	National Parks
Avoided emissions	Conversion from perennial to annual			Methane reduction	Logging	Fire management
Drawdown		Graze differently	Plant trees			

Farmlands and Forests – Policy Actions

- Avoiding emissions =**100 times** more effective than drawdown but do BOTH.
- Make tree and soil carbon markets accessible to farmers
- Changed management of state-owned forests

Tree planting Snowy Monaro
Carbon drawdown + landscape restoration

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Our Forests ….

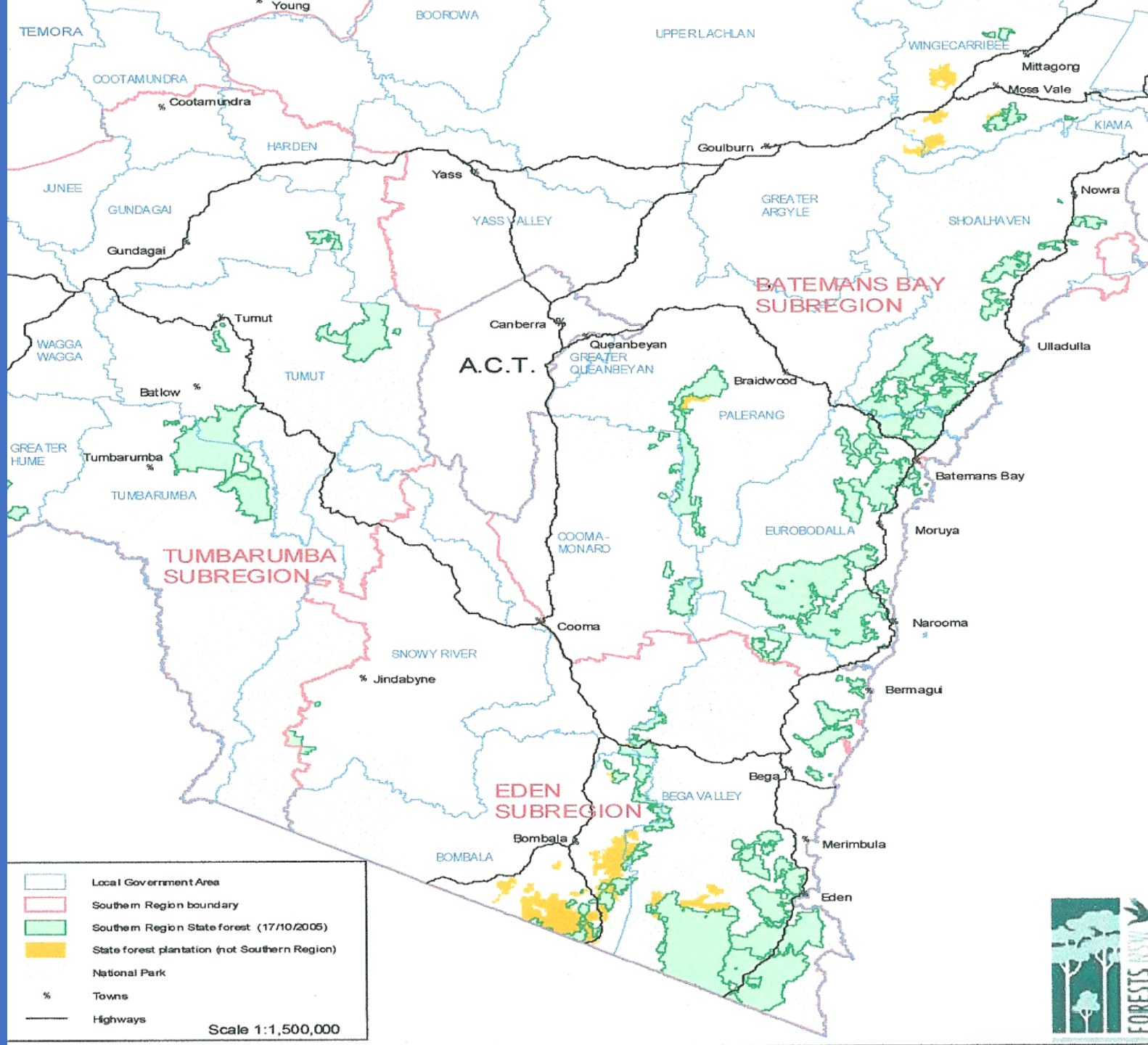
Frances Perkins

.....Our forests - worth much more standing

The Southern Forestry Region

- **411,651** hectares of public native forests, **one third** **NSW's** public native forest estate.
- Forestry Commission NSW logs at least **100,000 mature eucalypts** per year from Southern Forestry Region, 95% goes to the Eden Chip mill.
- From 2008-14, the last years Forestry Commission published the data, the NSW taxpayer suffered a $79 million loss from logging public native forests.

The Southern Forestry Region, NSW



Financial benefits of earning carbon credits from Southern Forestry Region

Projected present value of financial benefits NSW Government could generate from carbon credits, from 1.7 million tonnes CO_2 avoided (2021 AU$ million)

	2021	PV 2021-2050
Commonwealth Emissions Reduction Fund price ($16 per tonne avoided CO_2)	27	682
International carbon price ($80 + per tonne avoided CO_2)	136	3,409

Employment from chipping and carbon sequestration, Southern Forestry Region

Logging and chipping public native hardwood, actual	2021
Chip milling	30
Logging and haulage	20
Total Industry jobs	**50**

Estimated full time employment created from carbon capture income, Australian Carbon Credit income @$80,000 per job	2021
Total jobs funded by carbon capture, 1.7 mn tonnes @$16/tonne	**391**
Total jobs funded by carbon capture, 1.7 mn tonnes @$80/tonne	**1,700**

Carbon credit earnings and employment, Full Time Equivalent , FTE, Southern Forestry Region, 2019-2021

South East Shires	Current CO2 Emissions 2019 (tonnes)	Native State Forest (ha) 2018/19	Native state forest area as % of SFR	Shires' state forests' Carbon drawdown per year (tCO_2)	% of current GHG emissions drawndown by native forests	Value of carbon credits @ $16/tonne CO_2, ($,2021)	**Jobs funded by carbon credits @ $16/ tonne CO_2, FTE**	Value of carbon credits at $80/tonne CO_2, ($, 2021)	**Jobs funded by carbon credits @ $80/ tonne CO_2 (FTE)**	Pine and Native Forest Jobs 2019/2020 (FTE)	% of total jobs in shires **(%)**
Bega	**494,000**	**140,480**	**34%**	**580,142**	**117%**	**$9.3M**	**116**	**$46.4 M**	**580**	**126 (30 chipmill)**	**1.15**
Eurobodalla	438,000	106,462	26%	439,657	**100%**	$7 M	**88**	$35,2 M	**440**	52	0.5
Queanbeyan Palerang	1,040,000	21,858	5%	90,267	9%	$1.4 M	**18**	$7.2M	**90**	16	0.1
Shoalhaven	1,377,000	52,052	13%	214,960	16%	$3.4 M	**43**	$17.2M	**215**	6	0.02
Snowy Monaro	735,000	28,883	7%	119,278	16%	$1.9 M	**24**	$9.5M	**119**	107	1.1
Snowy Valleys	611,000	61,916	15%	255,695	42%	$4.1 M	**51**	$20.5M	**256**	170	2.6
Yass Valley	418,000	-	-	-	-	-		-		0	0.0
Kiama	300,000	-	-	-	-	-		-		na	na
Total	5,413,000	411,651	100%	1,700,000	31%	$27.2M	**340**	$136M	**1,700**	477	0.6

A low carbon future for Bega Valley Shire

WHAT IF:

- Logging Bega Valley's **140,000 hectares** of State Forest **ceased**…..
- **580,000 tonnes** of CO_2 emissions would be **avoided annually**,
- Potentially generating **$46 million** on the international carbon market.
- This is equivalent to **117% of all shire emissions** from electricity, transport, waste and agriculture.

Why are we not doing this NOW?

.....Our forests - worth much more standing

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A sincere thank you to

Dr John Hewson for launching ZeroSE today

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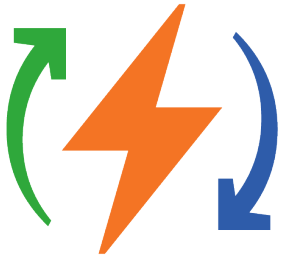
Just the Facts:
https://zerose.space/

10 actions from the Guardian 21 August 21

Electric Car

Reuse Reduce Recycle



Renewable Energy

1. Electrify everything – energy, transport and manufacturing.
2. Power it all from renewables, obviously.
3. Remove all fossil fuel subsidies (more than $10bn from taxpayers per year) and use this money to transform the grid.
4. Greatly reduce eating the products of methane-belching cows.
5. Plant trees – still the best way to draw down CO2.
6. Stop buying so much stuff – everything has a carbon cost.
7. Reuse, retain, recycle. You know the drill.
8. Move your money out of banks, insurance companies and superannuation funds that invest in fossil fuels – it only takes a few clicks.
9. Give your time, your talent or your treasure to organisations that are fighting the good fight – there is power in the collective.
10. And most of all, ask yourself: is my elected representative threatening the lives of my children and grandchildren, either by actively blocking climate action, or by simply delaying in the hope that some uninvented technology will fall from sky? You can help save the world with a pencil. Vote. Them. Out.

Solar Power

Pure Nature

Wind Power

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