What can you do to reduce fossil fuel energy use in your home?

If you want to help reduce Australia's carbon emissions, you can take practical action by changing the way you consume energy in your home. At our Roseville home, my wife Manuela and I have made several changes in the last few years.

Three years ago, we installed a 5 kilowatt solar system on the roof - and we've been really pleased with the results. In summer, it often produces 30 kilowatt hours (kWh) a day; even in winter, it produces 10 kWh or more. That means less fossil fuel energy drawn from the grid - and significantly lower electricity bills.

Next, we replaced our old drier with a heat pump drier. Compared to a traditional drier, heat pump systems use much less electricity. They do cost more up front, and the drying cycle takes a little longer - but there are significant running cost savings as well as the environmental benefits.

This year's project was replacing gas hot water with an electric powered heat pump hot water system. These are three to four times more efficient than traditional hot water heaters which use a heating element - so you use a lot less electricity to run them. Again, heat pump systems costs more up front than a traditional hot water heater - but the lower usage costs mean you are ahead after a few years. Better yet, you can get some help towards the up front cost.

Heat pump systems qualify for a Commonwealth Government rebate under the 'small scale technology certificate' (STC) system. You can get more information at cleanenergyregulator.gov. au. If you're a Ku-ring-gai resident, rebates are available through Ku-ring-gai Council to install heat pump systems or solar panels. Visit krg.nsw.gov.au/ Environment/Sustainable-living to learn more.

As our experience shows, there are practical steps, which are not too hard, to markedly reduce the amount of fossil fuel energy you consume.



Local environmental projects

Weeding in Blue Gum High Forest

Friends of Lane Cove National Park received a grant of \$10,000 to remove weeds and preserve the native ecology in Dalrymple Hay Reserve in St lves.

Installation of Solar Panelling at All Saints' Anglican Church

All Saint's Anglican Church received a grant of \$12,500 for the installation of a 22.5kw solar panel system on their roof, aiding in the reduction of carbon emissions in the Church's day-to-day operations.

Bush Regeneration and Educational Signage at Richmond Park

Ku-ring-gai Council received a \$20,000 grant to go towards the regeneration of the native area at Richmond Park. This involved the removal of weeds and revegetating with native plants to improve the natural habitat. Educational signage was also installed.

Regeneration of Native Bushland at Sugar Bag Creek

Ku-ring-gai Council received a \$15,000 grant to go towards the clean-up of native bushland around Sugar Bag Creek, seeing 1,000

seedlings planted on both sides of the creek.

> Scan this QR code to follow for updates



A MESSAGE FROM Paul

Australians want action on climate change.

They also want affordable electricity, secure jobs and opportunities for the next generation.

Our Government is acting to deliver net zero emissions by 2050, in a responsible way that will support more Australian jobs.

Australia has a strong record of beating our emissions targets.

Since 2005. Australia's emissions are down more than 20%. This is more than the USA. Canada and New Zealand.

We are on track to reduce emissions by up to 35% by 2030, beating our commitments.

Our Technology Investment Roadmap will unlock investment in technology that will further lower emissions - including clean hydrogen, carbon capture and storage, and energy storage.

Our Plan will be reviewed every five years, to evaluate progress and adapt to new technology advances.

By supporting technology, not taxes, our plan will lower emissions - while maintaining a strong economy for Australia's future.



Paul Fletcher MP Federal Member for Bradfield

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PAUL FLETCHER FEDERAL MEMBER FOR BRADFIELD

LOWERING EMISSIONS THE AUSTRALIAN WAY



Australia's emissions have fallen more than New Zealand, Canada, Japan and the USA (since 2005).

Australia's emissions are down more than 20% since 2005, the average for OECD countries is only 7%.

We are on track to beat our 2030 emissions target.

EMISSIONS REDUCTION (ON 2005 LEVELS)



-20%

All international data from last available UNFCCC inventory year (2019) except Australia (2020, National Inventory) and OECD (2018, World Resources Institute).

e our plan for



OUR PLAN FOR NET ZERO BY 2050



WHAT IS NET ZERO?

Net zero means making Australia carbon neutral, and any emissions are offset.

It means that we reduce emissions - through technology – and then offset the remaining emissions through, for example, storing carbon in new forests or underground.



GLOBAL MOMENTUM TO NET ZERO

While many countries are moving more slowly, they are moving in the same direction.

90% of Australia's exports go to countries with a commitment to net zero.

Big decisions taken by countries, investors and companies to reduce emissions pose a challenge - and an opportunity - for Australia.

Our plan manages these impacts - reducing our emissions, while generating more jobs.



AUSTRALIA'S PLAN

Our Long-Term Emissions Reduction Plan is Australia's first comprehensive plan to achieve carbon neutrality by 2050, and is geared to our unique economy.

Over the next decade, a \$20 billion investment in our Technology Roadmap will unlock \$80 billion in public and private investment - including in clean hydrogen, carbon capture and storage, and energy storage.

The plan includes five-yearly reviews that will enable us to evaluate progress and adapt to technology advancements.

Our principles:

- 1. Technology, not taxes
- 2. Expand choices, not mandates
- 3. Drive down the cost of a range of new technologies
- 4. Keep energy prices down with affordable and reliable power

ELECTRICITY PRICE RISES

3%

LIBERAL

5. Be accountable for progress.

101%

LABOR



THE TECHNOLOGY ROADMAP

Australia's Technology Investment Roadmap will invest in technologies, including:

H2

- Clean hydrogen will create new industries and (H2) help existing industries to make cleaner products.
- Energy storage ranging from batteries to Snowy Hydro 2.0 - will make our electricity grid more reliable as the share of renewables increases.





Carbon capture and storage - which returns emissions back underground.

Soil carbon – will give farmers a new source of CO₂ income and make their land more productive.

Our Technology Investment Roadmap - will reduce emissions by a further 40%.

Global technology trends - shift in global demand and technology will reduce our emissions by a further 15%.

> Offsets – storing carbon in soils and vegetation – and working with Indo-Pacific neighbours - will reduce emissions by a further 10% to 20%.

Future technology breakthroughs - will reduce emissions by a further 15%.

BENEFITS FOR AUSTRALIA

Our plan sees Australia build on its existing strengths while taking advantage of new economic opportunities.

- Each Australian will be almost \$2,000 better off by 2050, compared to no action.
- Our plan is estimated to deliver more than 100,000 new jobs for Australians by 2050.
- The real value of Australian exports is expected to more than triple between 2020 and 2050.
- Household electricity bills are expected to be lower than today, with the advancement of technology.

www.paulfletcher.com.au