





Main Goal	Policy Technology		
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RES	СОМ	TRA	

https://energiesprong.org/

buildings in the Netherlands. Along with this, they had goals to reduce the price of NZE renovations, increase the populations acceptance of NZE renovations, and increase the rapid growth of the NZE housing market. The decarbonization of the environment in the area is also a benefit as the reduction of fossil fuels can be seen.

development team to ensure the retrofits are affordable, and realistic. Once the market conditions are fulfilled, companies can invest and develop scalable net zero energy retrofits.

Environmental Justice

Although Energiesprong mainly targets single family homes, they are expanding their portfolio to include renters who are located in apartments

The payment for these upgrades is done through an energy service plan where occupant's pay the equivalent of their previous energy bill for the new energy and price of the upgrades

LGA Indicators

- Targeting LGA's which experience harsher climate (in terms of hot and cold) with retrofits will provide the most • benefit
- Look at large amounts of residential emissions per capita as another indicator which could be useful in narrowing down



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https://www.nyc.gov/site/sustainablebuildings/ll97/local-law-97.page

The main aspect of the law is the increasingly stringent carbon emission limits put on these buildings starting in 2024 and continuing to 2050. There is flexibility to comply with these restrictions, where if retrofits cannot be done in time, renewable energy credits or emission offsets can be purchased. There are penalties in place to incentivize those who may not want to follow the law.

Whv

The goal of Local Law 97 is to slowly increase emission restrictions in New York City to the vear 2050 where emissions for large buildings (25,000 sq ft and larger) should be at net zero. This law is expected to target more than 50.000 separate properties in the City. Specifically, it is targeted towards buildings as they account for about two-thirds of New York Cities carbon emissions. This law is alongside New York's 80X50 plan, which aims to decrease emissions from every building 80% by 2050.

Where

This law affects **all** buildings in **New** York City which are over 25,000 sq ft.

Who

This project was put forward by NYC's Mayor. The people who would make the change would be the owners of the buildings, either investing in retrofits or purchasing renewable energy from NYC to be used in their buildings.

Environmental Justice

There is a lot of flexibility with the compliance for this law. One example includes the fact that some affordable housing buildings can buy low-cost energy saving methods instead of the normal emission credit.

LGA Indicators

- Areas with a large amount of larger scale buildings is where this solution will best be implemented
- Look for more metro or outer metro based LGA's where large buildings will be much more common
- Look for LGA's that contain CBD's or other large scale epicenters



Organization:

Allume Energy





https://allumeenergy.com/uk/solshare/

How

Why

LGA Indicators

SolShare works by directing power from a rooftop solar system on a shared roof to participating tenants behind the meter. SolShare allows for the equal distribution and sharing of solar energy for each unit. This is possible by distributing power on an on-demand basis depending on each unit's energy load. Each apartment within the building is equipped with a monitoring device that feeds energy usage information to the SolShare unit. Any excess energy not used by the apartment will be returned to the grid and the electricity retailer will provide proper compensation.

Where

Allume is based in Melbourne, Victoria but has spread throughout Australia and to other parts of the globe. Allume's approach to solar energy is largely want based as a landlord or tenant must go through the process of implementing this technology. Although there is a focus on renters, this technology is applicable for any multi-dwelling building such as office buildings and retail centers.

SolShare aims to bridge the gap for renters that are seeking renewable energy solutions and retrofits. Renters in Australia have little power in making permanent retrofits to their apartments and must consult their landlords before making most changes. This process can be discouraging and lengthy and could deter renters from pursuing sustainable living options.

Who

Allume specifically targets renters looking for renewable energy options and landlords looking to promote sustainable living options. Although we place emphasis on SolShare for apartment buildings, the same concept can be implemented for any multi-metered building with a shared roof. This could include office blocks and retail centers. **Environmental Justice** Helping renters and people in social housing have access to solar power. Can help to reduce energy bills.



- Easier to implement in LGAs where Strata committee only needs majority vote to implement SolShare.
- LGAs with local grid stability in order to compensate for the energy load produced by solar.
- Allume is already somewhat established in New South Wales, Victoria, and South Australia.



Organization:

CleanBC

How

Whv

This plan allows for businesses and

homes (including multi-family rental

buildings) to get up to 50-75%

funding via rebates to purchase

the chargers including charger

charging station. There are certain

regulations you must follow to get

purchase and permanent installation.

Australia has a disproportionately

low amount of EV chargers per the





https://pluginbc.ca/go-electric-fleets/charging-infrastructure-incentives/

Where

Anyone who follows the qualifications listed is eligible to apply for the rebate. This is a possible solution that could be implemented anywhere such as in an area of poor charging infrastructure, or an area where the role of EV's can grow.

Who

The government puts the rebate plan out as a policy, but power is ultimately with the people. There are certain documents you must show proving you have approval from the landlord and are legally allowed to use the electrical power that the charger would require. If such proof is submitted, the rebate will be given to permit installation. **Environmental Justice** Part of this policy specifically gave special benefits to indigenous groups, which can get 100% of the charging station installation paid for (up to \$6,000)

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LGA Indicators

- Look for LGAs with high transportation and gas emissions
- Target areas with an indigenous population who could be specifically assisted
- Communities with multiple group-housing complexes could be specifically assisted
- Target areas with less access to public transport that may rely more on cars (Hopefully EV's)

Yackandandah Microgrid

Yackandandah, Australia

TRY (Totally Renewable **Organization:** Yackandandah)



Community Report 100% Feasibility Study

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https://totallyrenewableyack.org.au/

Where

TRY has settled on a local area footprint that was determined by the electricity feeder that supplies all the loca properties. Establishing electricity facilities within that feeder area means the town can potentially continue to supply its own power. This makes the area ideal for the implementation of microgrids.

Who

The goal of this microgrid was to first TRY is the small community behind Yackandandah, which consists of a band of volunteers. Their funds are provided by the Department of Industry, Science, Energy and Resources. They have partnered with a effective and resilient 100% renewable local firm, Mach2 Consulting, to manage the project and undertake the Yackandandah, so they didn't have to financial feasibility.

By transitioning to 100% renewable energy in the town, Yackandandah will be a net zero community, which are big steps towards reducing carbon emissions across Australia.

Environmental Justice

LGA Indicators

How

Mach2

Whv

So far, TRY has generated three

virtual power plant, and a 274 kWh

40% of the grid that needs to be

community battery. For the remaining

locally sourced if possible. Such types

are the main contenders for energy

generation and will be assessed by

and foremost, reduce carbon

emissions. It also was helpful in

power supply for the entirety of

rely on outside power sources.

developing greater resilience for the

town during extreme weather and

natural disasters. It provided a cost

operating microgrids, multiple solar and

heat pump hot water offers, a community

completed, solar and wind generation will

- Much easier to carry out in smaller areas, but has core ideas that could be implemented in residential areas
- Areas with a much higher percentage of volunteers can help band a community together and form change.
- Sense of community and cooperation is need in order for ideas to become a reality.
- Far off of the grid, has more incentive to use microgrid as they may have network or other issues