

REPOWER New Zealand - let's be ambitious

...a realistic blueprint to bring clean, cheap and abundant 'power' to the people

Join the Repower NZ coalition and add your voice in support of a clean energy future.

Our collective voice is needed to make sure that NZ leaders make the right choices towards a sustainable and renewable energy mix.

WHO are we?

The Repower NZ coalition brings together all individuals, organisations and companies that are concerned about the actual Energy Mix of New Zealand.

Repower NZ subscribers include energy experts, environmental engineers, academics, researchers, students and every person who wants to help to create a better life in the belief a more renewable energy mix is feasible and realistic within a short time.

Repower NZ mission

- To bring clean and cheap power to every household and energy user in NZ
- To promote a realistic action plan for a sustainable Energy Mix in NZ in the short term
- To educate people about the vulnerability of NZ's over-reliance on fossil fuels
- To increase public demand for more efficient energy conversion, a renewable energy mix and more efficient ways of transport use
- To stimulate policy actions that support the Repower NZ ideas
- To make New Zealand energy independent and self-sufficient on all levels of energy use without losing 'comfort' and by protecting the NZ quality of life

We are concerned about the actual energy use of New Zealand and the actual energy mix to supply electricity, heat and transport in New Zealand.

After years of low energy conversions we are not pleased by the slow uptake of energy efficiency measures and renewable energy despite the abundance of it in New Zealand.

New Zealand is in a vulnerable position because of its high dependency on fossil fuels. This over-reliance on imported oil can become a serious threat to the nation's economy.

Summary of the NZ Energy situation

- NZ is only 25% renewable and 75% fossil fueled in its total energy mix
- NZ's position and energy mix is **vulnerable** because of **high electricity use** for heating and **high dependency on fossil fuels**
- Fuel poverty amongst NZ families is growing
- NZ's energy use is characterized by decades of low energy conversion
- Electricity prices for households increased 60 % in the last 10 years and the households pay 46% of all electricity while using only 33%
- The government has no ambitious plan or strong policies to solve the looming energy crisis but have planned a conservative business as usual scenario up to 2050
- The fossil fuel needs in transport are very high already and an increase of transport needs is estimated at 40 % by 2030 in a world where peak oil is real.

The Repower NZ solution



New Zealand has abundant opportunities to create a renewable energy mix for **electricity** production, for the use of **heat** and for liquid **transport fuels**.

The Government needs to be stimulated for an ambitious energy scenario beyond the business as usual scenario and more New Zealanders must be excited about renewable energy.

Renewable energy technologies and many scalable solutions are mature and have been proven successfully worldwide. Technical know how is available within affordable reach .

The Repower NZ plan describes state-of-the-art technologies to organize scalable and positive actions in the following fields:

- Energy efficiency to reduce electricity needs by 25%
- Renewable energy mix for production of electricity, heat use and transport fuels
- Smart grid and distributed generation
- Advanced , innovative transport with a mix of efficient cars, electric vehicles and biomass into liquid fuels refineries

Repower NZ goals by 2030 – 2050

Short term actions should be comfortably implemented, because these are based on mature and proven technologies worldwide, to achieve 50 % of total energy needs from renewables by 2030 (electricity, heat and transport). A target of 100 % renewable electricity and 25 % energy savings must be a priority . New Zealand has many opportunities to extend renewable electricity with geo, wind, hydro, CHP and solar PV. After decades of low energy conversion, energy efficient measures should definitely be implemented .

By 2050 New Zealand should aim to demonstrate a 75 % renewable energy mix in which marine energy, biomass, solar heat and solar PV will be further developed. Electric vehicles and biomass for liquid fuels will reduce oil dependency and contribute to the Renewable Energy Mix.

For more information, go to www.repowernz.co.nz

Repower NZ Message

It is time for a real change in the way New Zealand uses energy inefficiently and leaves renewable energy opportunities neglected.

Change the looming energy crises into an opportunity.

Start investing in a Renewable Energy Mix. The time to act is now.

