

# WORKING TOWARDS MORE EFFICIENT AND SUSTAINABLE ENERGY FOR THE PACIFIC

## GLOBALLY:

Renewable energy is inexhaustible and is becoming more popular.

Since 1990, renewable electricity generation has grown, on average, by 3.5% per year



World's energy that comes from renewable sources [2010].\*



This can be doubled by 2030 if action is taken now.\*\*



Improving efficiency can make this as high as 36%.\*\*



Nonrenewable energy is environmentally unsustainable and can cost more for governments and people.

Renewables are now the third-largest contributor to global electricity production – making 21.6% in 2013

Energy efficiency is about getting more from what we have.

What's possible?



Investing **US\$170 billion** into energy efficiency



savings of **US\$900 billion** per year



**100s of times** more energy than the world currently uses could be provided by solar.\*\*\*



**400% more** hydropower could be produced than current rates.\*\*\*



**9% of global** electricity could be from wind by 2030.\*\*\*

Switching to renewable energy could:

save up to **US\$740 billion** per year by 2030\*\*



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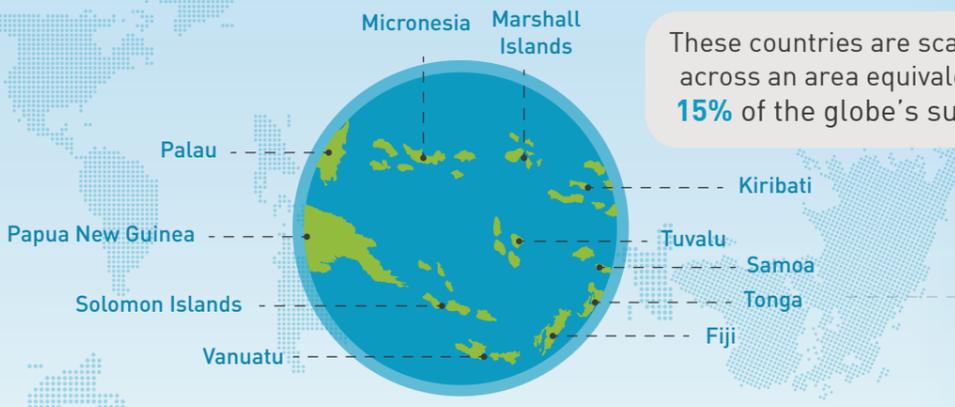
create **900,000 jobs** worldwide\*\*



CO2 reductions could be significant if we make the most of both renewable energy and energy efficiency.\*\*

## In the Pacific:

Made up of 11 member countries:



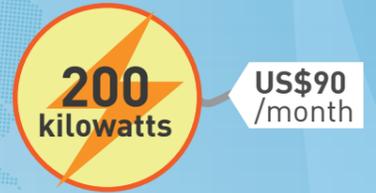
These countries are scattered across an area equivalent to **15%** of the globe's surface

Rely heavily on fuel imports



Governments spend as much as **10 – 25%** of gross domestic product (GDP) on fuel.

Some of the world's highest electricity prices



Renewable energy has the potential to bring electricity prices down.

Low access to electricity: only 49% of houses across the region have electricity

Papua New Guinea



Solomon Islands



Vanuatu\*\*\*\*



Access to electricity is vital for:



Businesses to operate longer hours



Hospitals to run



Kids to study at night



Safe lighting on the streets



Reducing the risk of fires from candlelight

Renewable energy sources enhance energy security and sustainability.

Across the region countries are setting ambitious targets for renewable energy for electricity by 2020

Vanuatu



Solomon Islands



Tonga



What we're doing:

The World Bank is helping connect the Pacific region to renewables and map renewable resource potential

Vanuatu



Connecting more than **85,000 people** to electricity by 2019 (all renewable sources).

Kiribati



Solar panels are reducing the need for fuel. Government savings are expected to reach **US\$290,000** by 2016.

Tuvalu



Increasing the share of renewable energy to more than **40%** by 2019.

Papua New Guinea



Mapping renewable energy sources, starting with **wind and solar**.