

# Sustainable and affordable energy

## The Bermuda Better Energy Plan

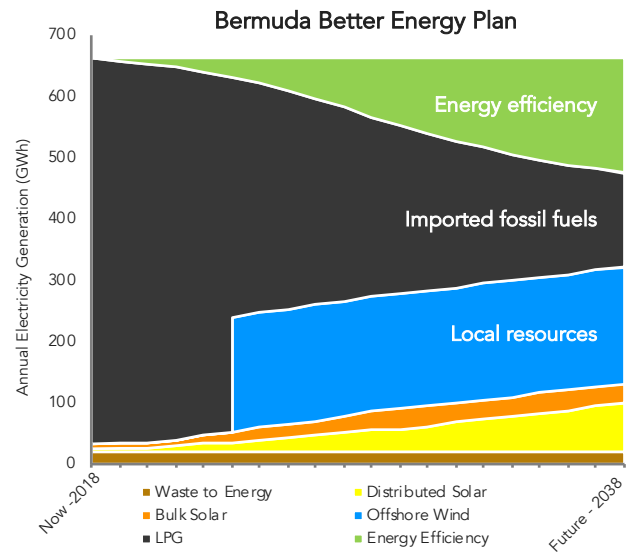
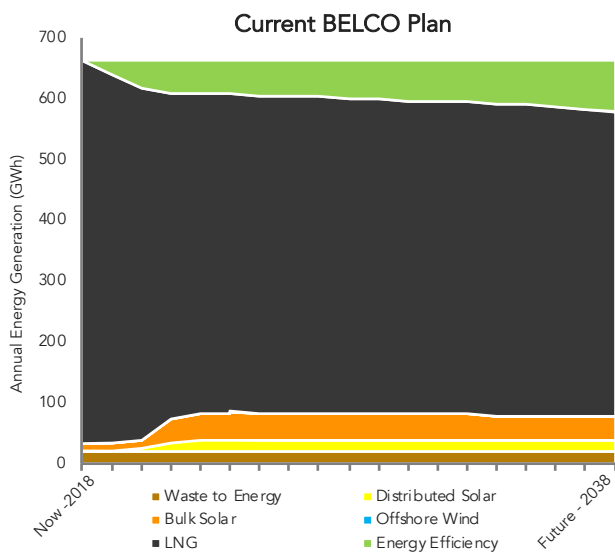
Bermuda is about to make a critical decision on how electricity will be generated in the future. BELCO have proposed a plan which continues to rely mainly imported fossil fuels.

**We have a better energy plan:** it is more sustainable and is a great opportunity for Bermuda. We want to spend less on energy imports, create more local jobs in renewable energy and keep more money in our economy. **We need your support.**

The Bermuda Better Energy Plan is based on increased **energy efficiency**, more **energy storage** and a larger contribution from **renewable energy**. We are proposing a combination of solar panels and offshore wind turbines.

Our plan is preparing Bermuda for the future and will help to produce less expensive, cleaner electricity.

The images below illustrate the two plans showing how electricity will be generated between now and 2038.



**You have the opportunity to shape Bermuda's energy future**

There will be a consultation on this Bermuda Better Energy Plan. Your support will be essential. If you would like to support the plan, please visit [www.betterenergyplan.bm](http://www.betterenergyplan.bm)

**This Plan is endorsed by**



# Why is this Plan better?

## It uses the resources we have

It makes full use of the fantastic solar and wind resources already available in Bermuda, and minimizes the amount of imported fuel. This would reduce Bermuda's reliance on volatile foreign resources.

## Renewable energy is cheaper

The solar array being built at Bermuda's airport will sell electricity for half the cost of producing electricity from oil. Roof top solar electricity is already cheaper than buying from the grid.

## Renewable energy costs are falling

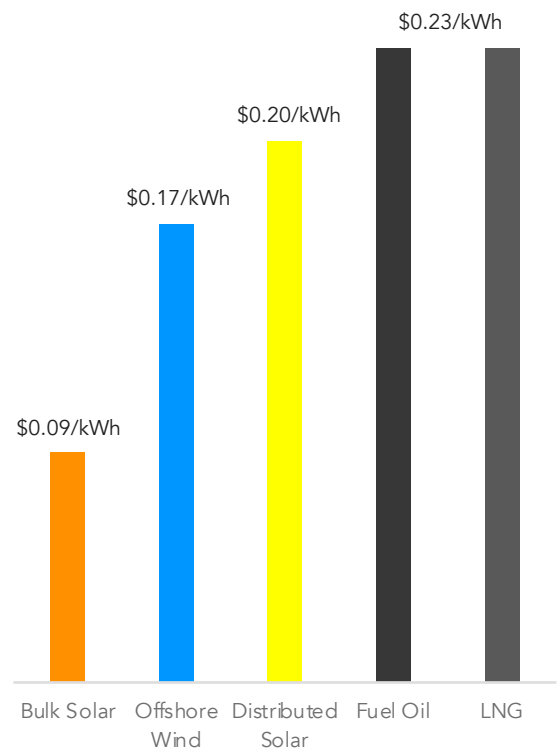
The cost of renewable energy has been falling for many years. The costs of oil and LNG are more volatile and generally increase over time.

## No need for a new gas terminal

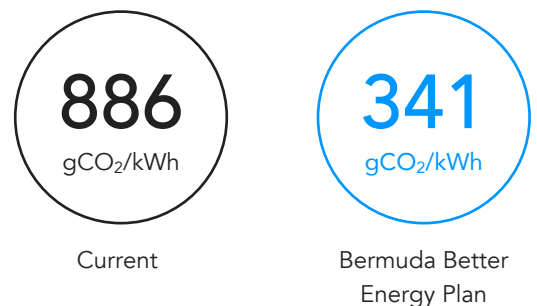
Industrial LNG regasification terminals of the size proposed for Bermuda are uncommon. A new gas terminal would be expensive, have operational risks and represent a significant commitment for Bermuda.

## It is better for the environment

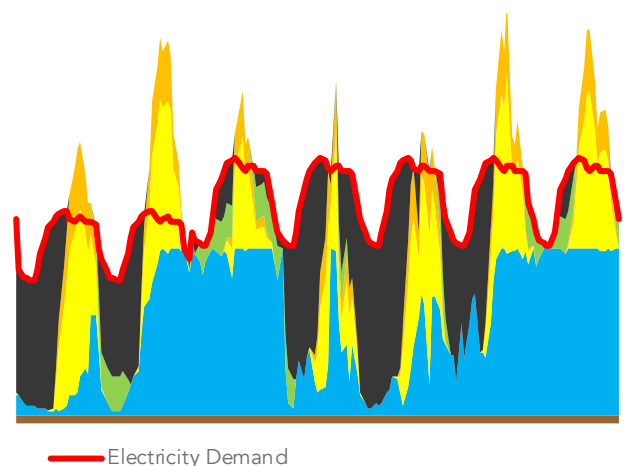
It would reduce carbon emissions by 62%. This could not only help Bermuda to remain an attractive destination to international business and tourism but demonstrate global leadership to mitigate the causes of Climate Change.



Calculated electricity cost for different energy sources



This plan would reduce carbon emissions by 62% compared with current emissions



A typical week of electricity generation using renewables

# The Bermuda Better Energy Plan

## More solar generation

The island currently generates 2% of electricity from solar. By using just a small proportion of roof tops and some large solar farms this can increase to over 20%.

## Offshore wind farm

Experts say an offshore wind farm in Bermuda is possible. Just ten large turbines located 5 miles to the West of Dockyard could generate 45% of the island's electricity.

## Investment in energy storage

Renewable energy can be stored and used when it is needed. Hawaii already have almost twice as much battery storage under construction as the Better Energy Plan proposes for Bermuda.

## A more energy efficient future

Bermuda wastes huge amounts of energy every day. As old equipment is replaced by new technology, standards of living can improve while reducing energy use. Modest support from Government could rapidly speed this up.

## New opportunities for BELCO

BELCO will play an important role in managing renewable energy generation, operating the grid to distribute energy, and ensuring that reliable and less expensive electricity is available. The plan promotes working with BELCO and other stakeholders.



# Compliance with the Electricity Act 2016

Electricity Act 2016 purposes	The Bermuda Better Energy Plan
1 Ensure the adequacy, safety, sustainability and reliability of electricity supply in Bermuda	<input checked="" type="checkbox"/> Solar and wind energy combined with energy storage and LPG offer a safe, sustainable and reliable solution for Bermuda.
2 Encourage electricity conservation and the efficient use of electricity	<input checked="" type="checkbox"/> Includes robust estimates of the potential for energy conservation and efficiency. <input checked="" type="checkbox"/> Electricity use reduces by almost 30%.
3 Promote the use of cleaner energy sources and technologies	<input checked="" type="checkbox"/> Results in 64% of Bermuda's electricity being provided by the sun and wind by 2038.
4 Provide non-discriminatory interconnection to transmission and distribution systems	<input checked="" type="checkbox"/> Proposes ending discriminatory monthly charges for solar systems connected to the grid.
5 Protect the interests of end-users with respect to prices and affordability, and the adequacy, reliability and quality of electricity	<input checked="" type="checkbox"/> Uses the least-cost sources of energy; solar and wind. <input checked="" type="checkbox"/> Determines that small solar systems offer end-users cheaper electricity than buying from the grid. <input checked="" type="checkbox"/> Recognises that the cost of electricity from solar and wind technology is stable and can be set by Bermuda. <input checked="" type="checkbox"/> Acknowledges that the cost of solar and wind technology is forecast to reduce.
6 Promote economic efficiency and sustainability in the generation, transmission, distribution and sale of electricity	<input checked="" type="checkbox"/> Recognises that Bermuda has excellent solar and wind resources. Using them could keep millions of dollars a year in the local economy.

## How to support the plan?

The Bermuda Better Energy plan will not happen without your support.

Things you can do:

- Share this document and tell as many people as you can about this important decision. It affects everyone.
- Look out for the consultation and instructions on how to respond.
- Make sure you respond to the consultation.

For more detail on the Bermuda Better Energy Plan and how it compares to the current BELCO plan, see the full Integrated Resource Plan Alternative Proposal report at:

[www.betterenergyplan.bm](http://www.betterenergyplan.bm)