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Commentary:

The data shows the annual FTE[[1]](#footnote-1) employment within the renewable industry for each year. This mini project aims to understand the proportion of labour demand within each renewable energy industry, and the overall labour trend within the labour industry.

Due to the small sample size, a panel data regression, which could have been proper for such data would have provided biased regression results. Attached on Github is both a percentage stacked bar plot and stacked bar plot.

I started by saving the csv file of the data for the total FTE employment in Australia. After importing into Rstudio, I changed column names using a concatenation of column names. I then reshaped the data using the melt function from a wide form to a long form. This makes the form of the data suitable to utilise ggplot2 function to create a stacked bar plot.

From 2012 - 2018, the percentage of total FTE within the renewable energy industry from Solar PV large industry increased, presumably from increased energy conversion efficiency of photovoltaic technology which makes its use more economical (for solar farms presumably). The total FTE employment level over the past decade also increased.

1. Full Time Equivalent (FTE) employment is a unit of measurement equivalent to the workload of an individual worker. [↑](#footnote-ref-1)