PUTTING PRICES IN CARBON EMISSIONS

13 CLIMATE ACTION

CODE MONARCH
Dolores, Marc Joseph S
Cuadra, Audrick Zander G..

Greenhouse gases is harmful to environment, carbon emission is part of it and some of the causes are fossil fuels, cement, coal, and oil

2000 - 2022
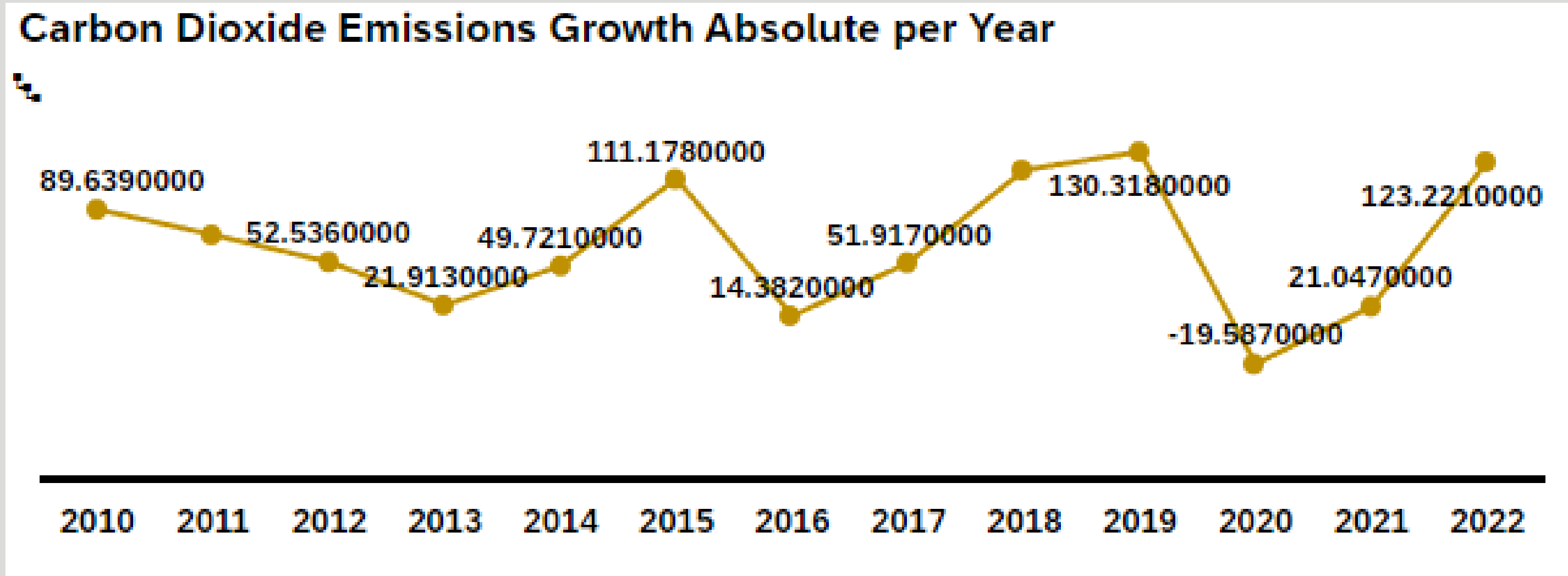
CO2 gas emission

666m population

619 million metric tons emission

Climate change is progressing day by day and one of the causes of it is the greenhouse emission, in relevance to the sdg 13 which is climate action the data analysis was made.
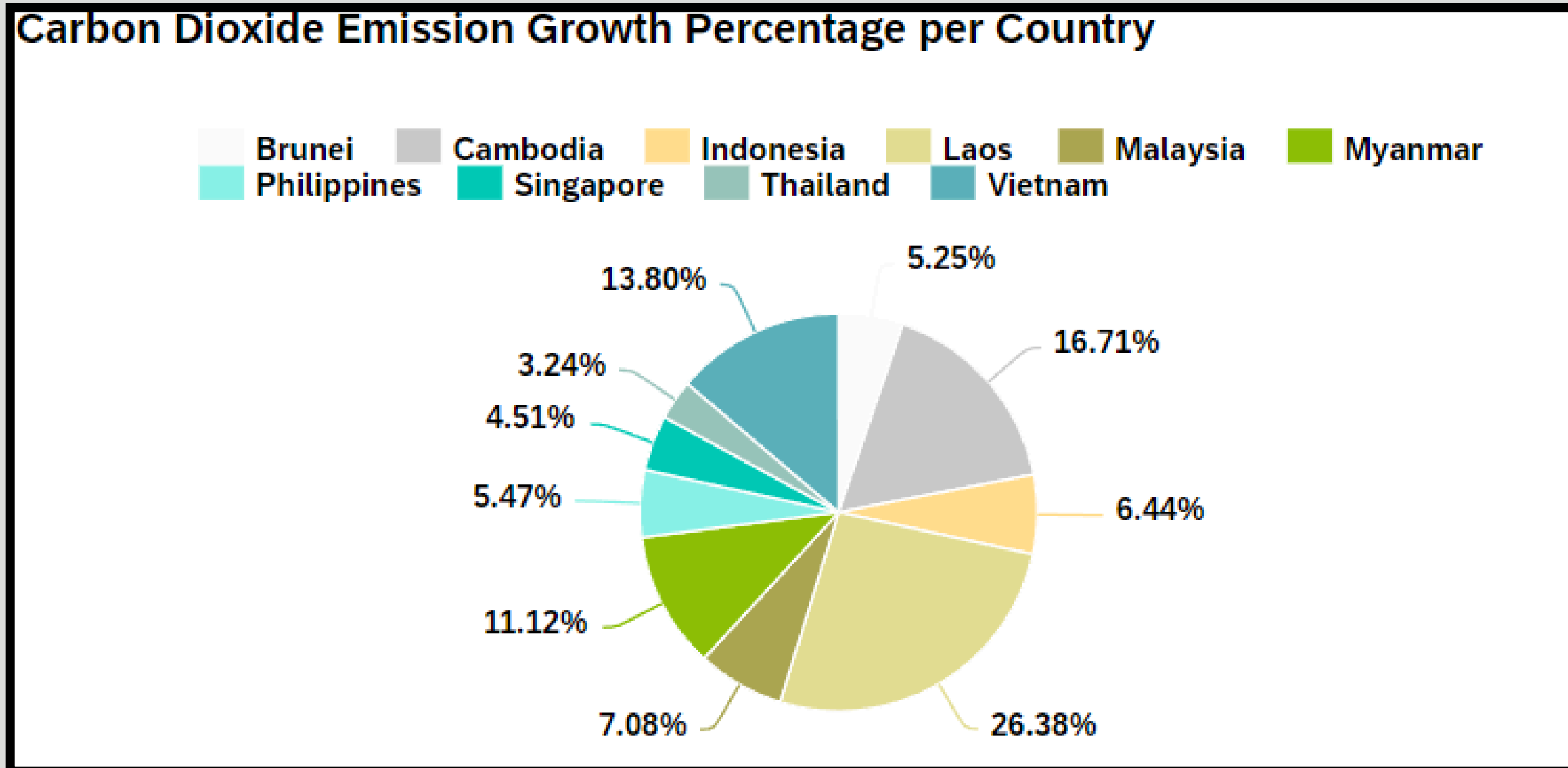
13 CLIMATE ACTION

The highest increase in 2010-2020 is in the year 2022 which has 123.221 absolute increase while the lowest is in 2020.

Carbon Dioxide Emissions Growth Absolute per Year

89.6390000
52.5360000
21.9130000
49.7210000
111.1780000
14.3820000
51.9170000
130.3180000
-19.5870000
21.0470000
123.2210000

2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022
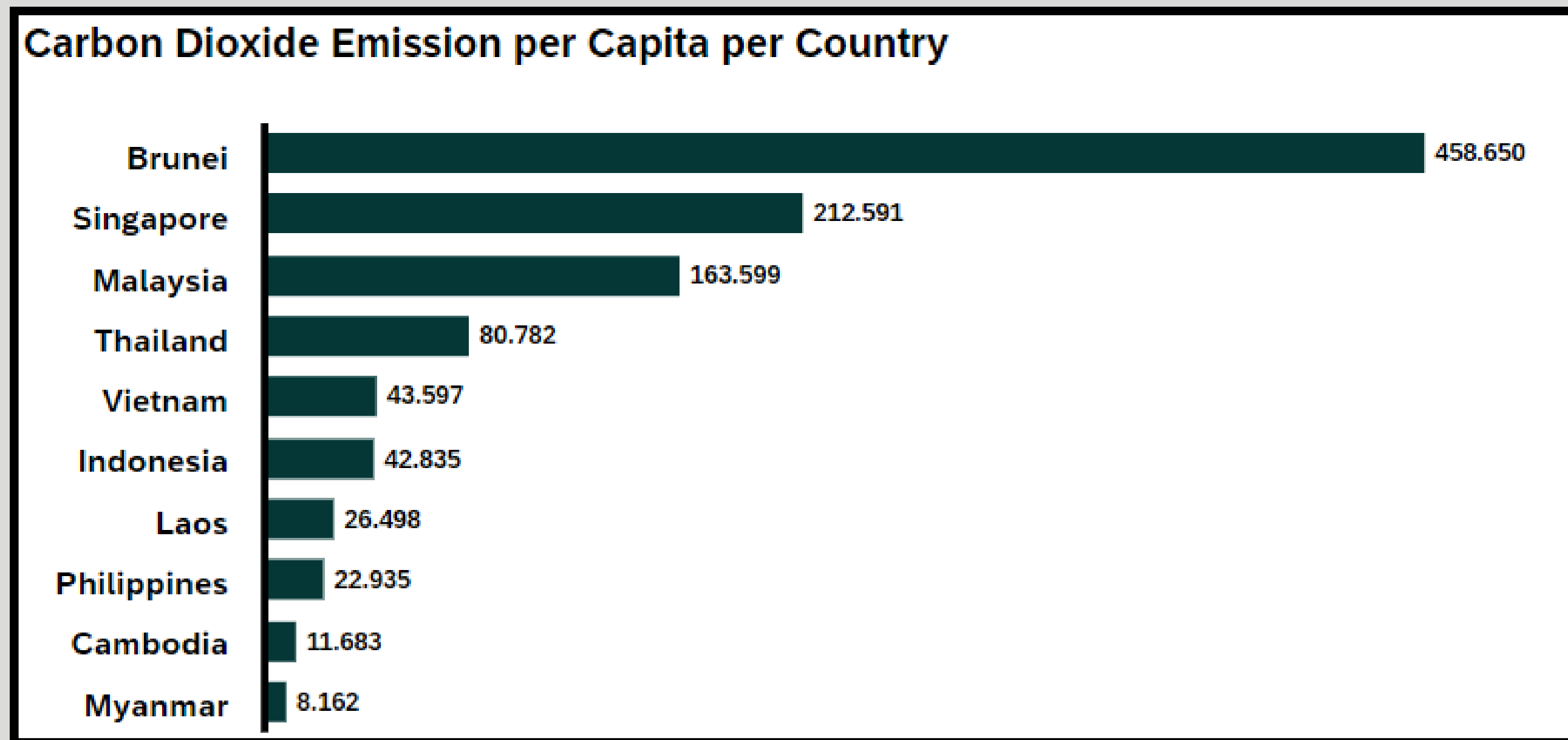
Carbon Dioxide Emission Growth Percentage per Country

The biggest contributor in carbon emission is Laos with 26.38% while the lowest is Thailand with only 3.24%

SECOND CHART

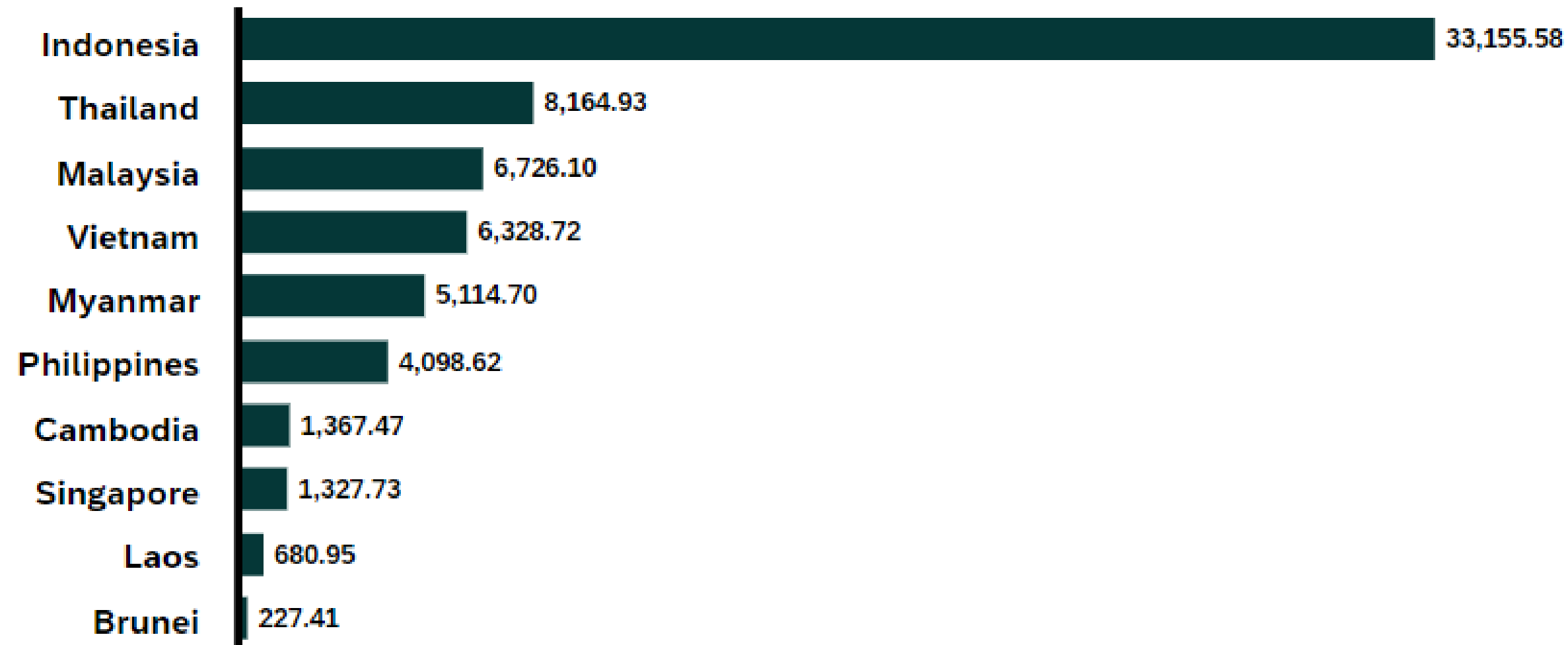# Brunei has biggest per capita in carbon emission which indicates that it has the highest carbon footprint

Carbon Dioxide Emission per Capita per Country

Country	Value
Brunei	458.650
Singapore	212.591
Malaysia	163.599
Thailand	80.782
Vietnam	43.597
Indonesia	42.835
Laos	26.498
Philippines	22.935
Cambodia	11.683
Myanmar	8.162

THIRD CHART

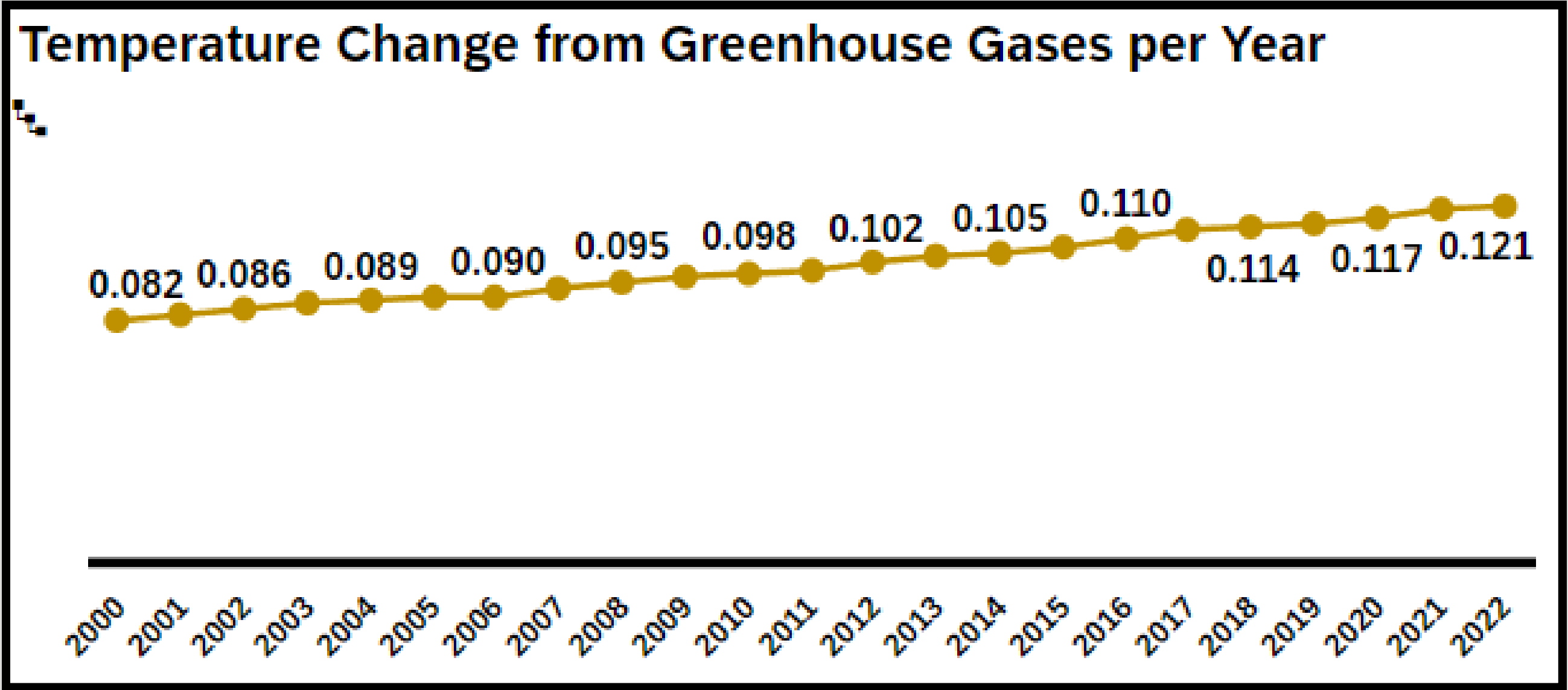as the year goes the growth of carbon emission is increasing and indonesia is the highest contributor in this growth but the brunei has the biggest per capita

Total Greenhouse Gases per Country

Country	Value
Indonesia	33,155.58
Thailand	8,164.93
Malaysia	6,726.10
Vietnam	6,328.72
Myanmar	5,114.70
Philippines	4,098.62
Cambodia	1,367.47
Singapore	1,327.73
Laos	680.95
Brunei	227.41

in the total greenhouse gases, indonesia is still the highest while brunei has the lowest

FOURTH CHART

As the time flows the temperature changes become greater and greater

Temperature Change from Greenhouse Gases per Year

0.082 0.086 0.089 0.090 0.095 0.098 0.102 0.105 0.110 0.114 0.117 0.121

2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022
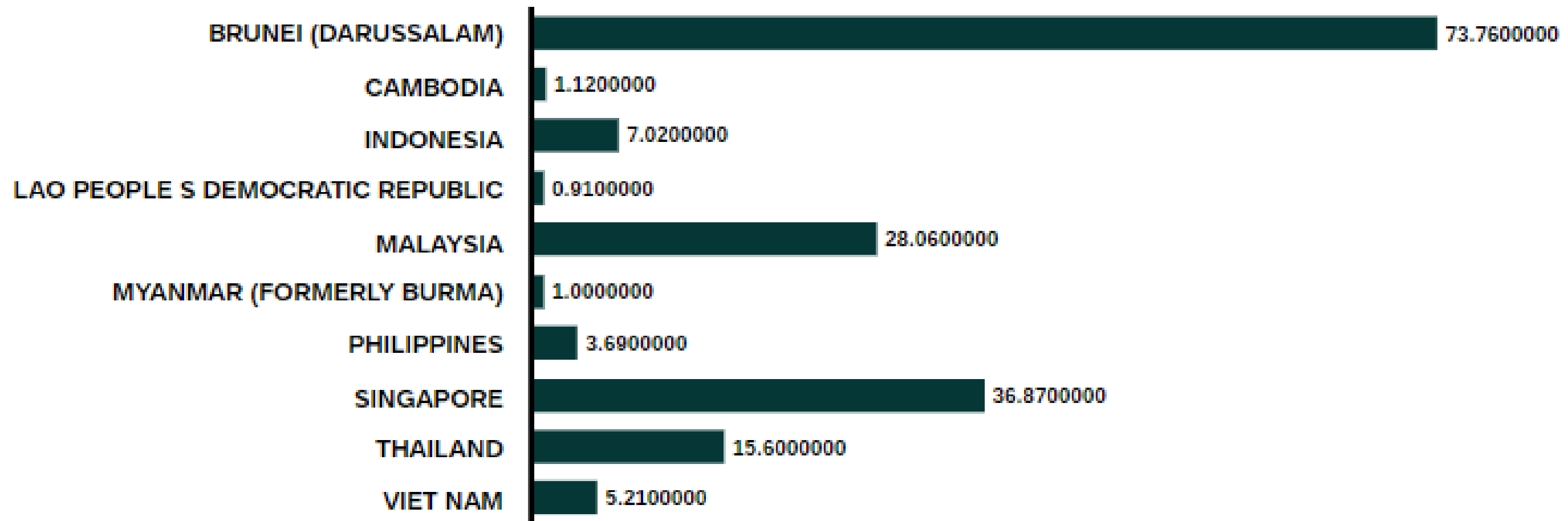
FIFTH CHART

Carbon emission is main gas in greenhouse gas and in asean countries, indonesia ranks the highest country with high index of greenhouse gas more accurately carbon dioxide

The solution for this predicament is by switching to low-carbon or renewable energy as it can reduce the carbon emissions

Fossil Fuel Carbon Emission per Capita in ASEAN Countries (Year 2000 - 2014)

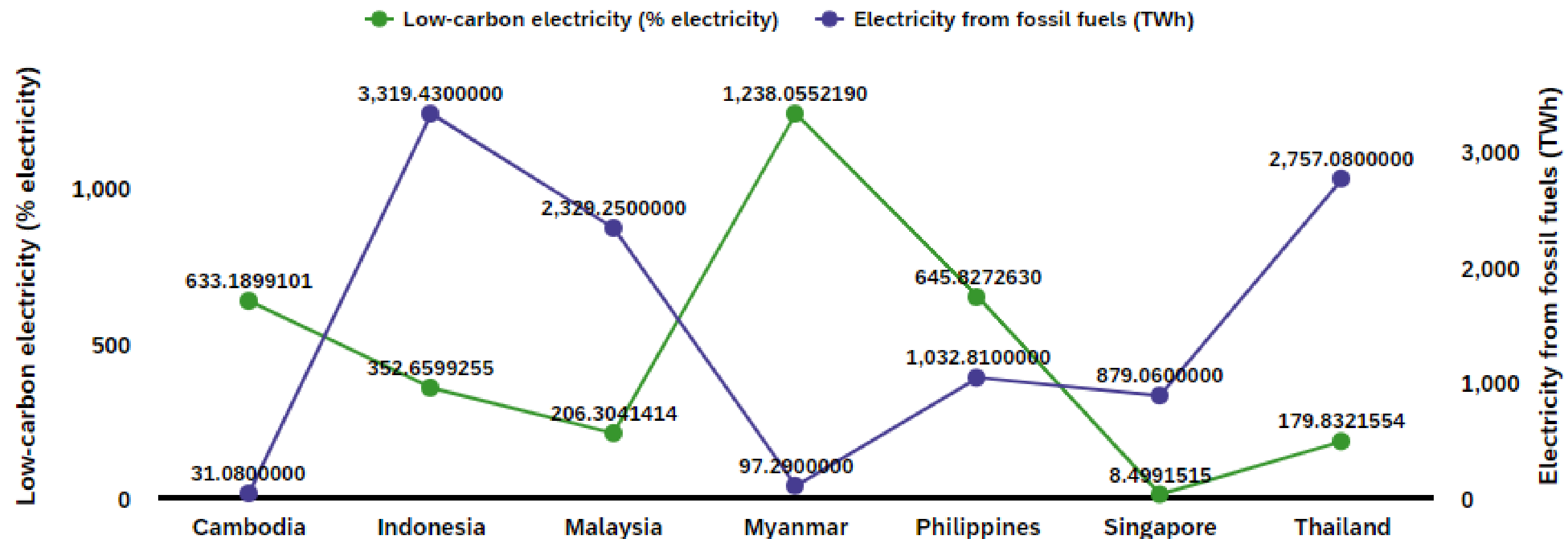| Country	Value
BRUNEI (DARUSSALAM)	73.7600000
CAMBODIA	1.1200000
INDONESIA	7.0200000
LAO PEOPLE S DEMOCRATIC REPUBLIC	0.9100000
MALAYSIA	28.0600000
MYANMAR (FORMERLY BURMA)	1.0000000
PHILIPPINES	3.6900000
SINGAPORE	36.8700000
THAILAND	15.6000000
VIET NAM	5.2100000

one of the causes of carbon emissions is fossil fuels and in asean countries, brunei is the leading contributor

SOLUTION DATA

Electricity from fossil fuels vs Low-carbon electricity

1 Filter

Low-carbon electricity (% electricity) — Electricity from fossil fuels (TWh)

most of the countries does use fossil fuel more and does have high carbon emissions compared to the countries who use renewable energy

SOLUTION DATA

- **https://ourworldindata.org/co2-and-greenhouse-gas-emissions#all-charts**
- **https://sdgs.un.org/goals/goal13**
- **https://www.kaggle.com/datasets/ggsri123/co2-emissions-from-fossil-fuels**
- **https://www.kaggle.com/datasets/anshtanwar/global-data-on-sustainable-energy**

REFERENCES