

# MY RESEARCH PROJECT

What is the relationship between low-income Haiti country and the usage of renewable energy sources? What is the correlation, and how does the data relate to each other?

## **Most important questions to ask:**

- 1.**What is current electricity situation globally and in Haiti?
- 2.** Is Haiti wealth and have potential resources to invest in green energy?
- 3.**How strong is the relationship between Haiti's access and their GDP Per Capita?
- 4.**What is Haiti usage of renewable energy sources?
- 5.**What is the relationship between renewable energy production and GDP Per Capita?
- 6.**How investments in green energy in Haiti affect their energy production from renewables?



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▲ 1.GLOBAL ELECTRICITY ACCESS

🏛️ 2.GLOBAL GDP

〽️ 3.CORRELATION COEFFICIENT

✳️ 4.HAITI ENERGY SHARE

〽️ 5.CORRELATION RENEWABLES VS GDP...

⌚ 6.INVESTMENTS IN GREEN ENERGY



# Global Electricity Access in Selected Year

[SHOW ENERGY VARIABILITY](#)[SHOW HAITI'S ENERGY](#)

CONTINENT

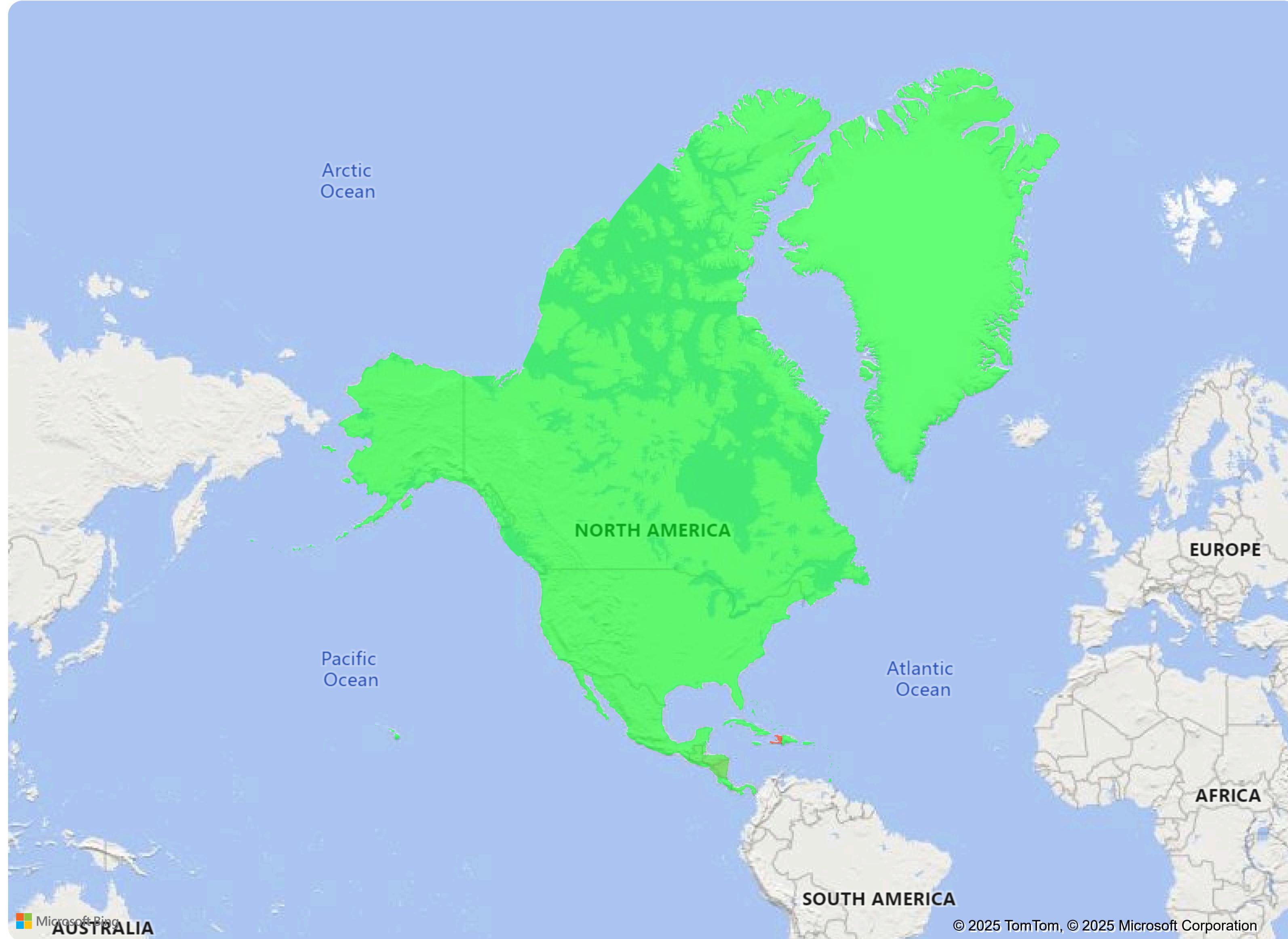
North America

YEAR

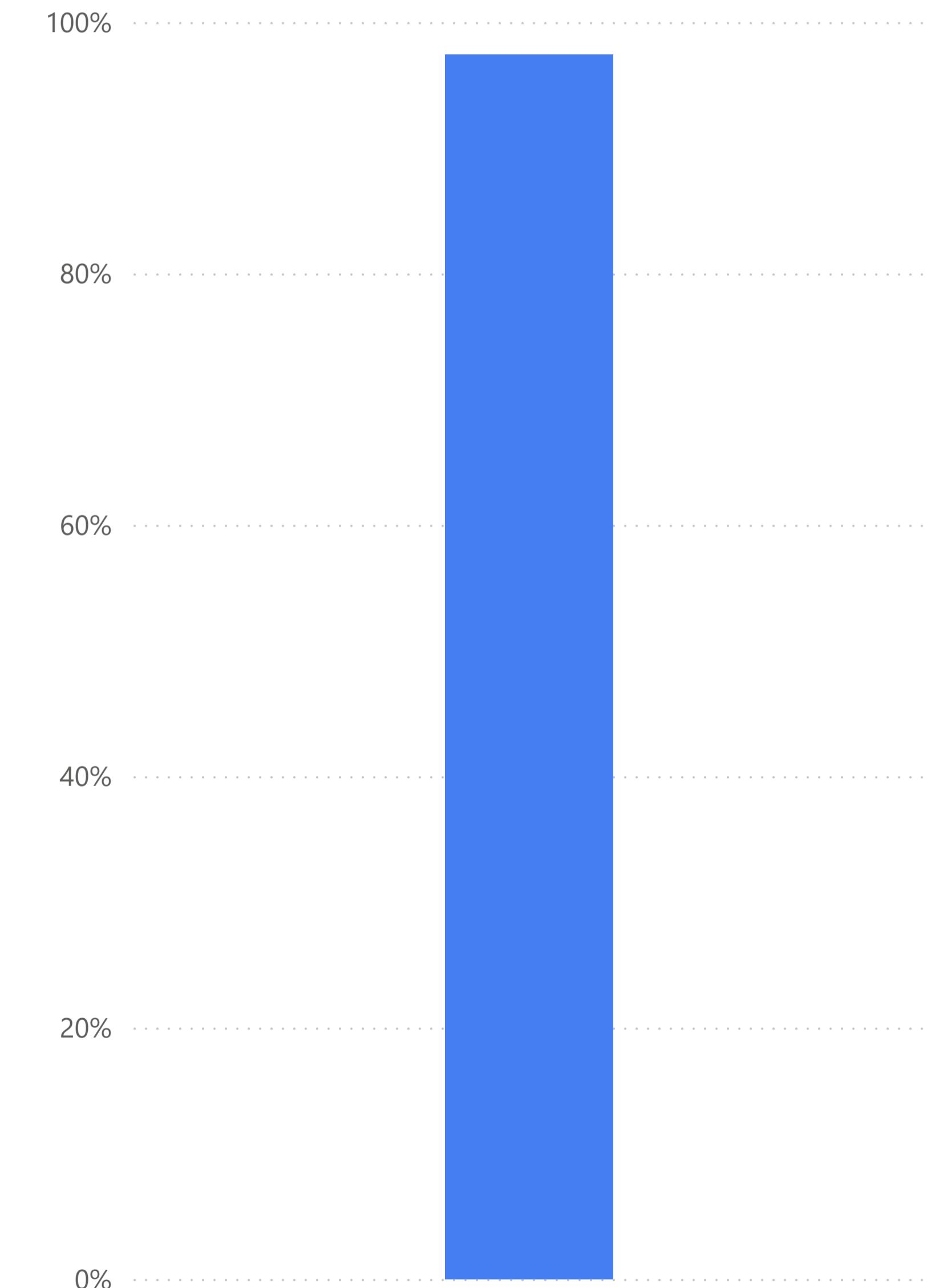
2020

97%

ACCESS IN SELECTED AREA (AVG)

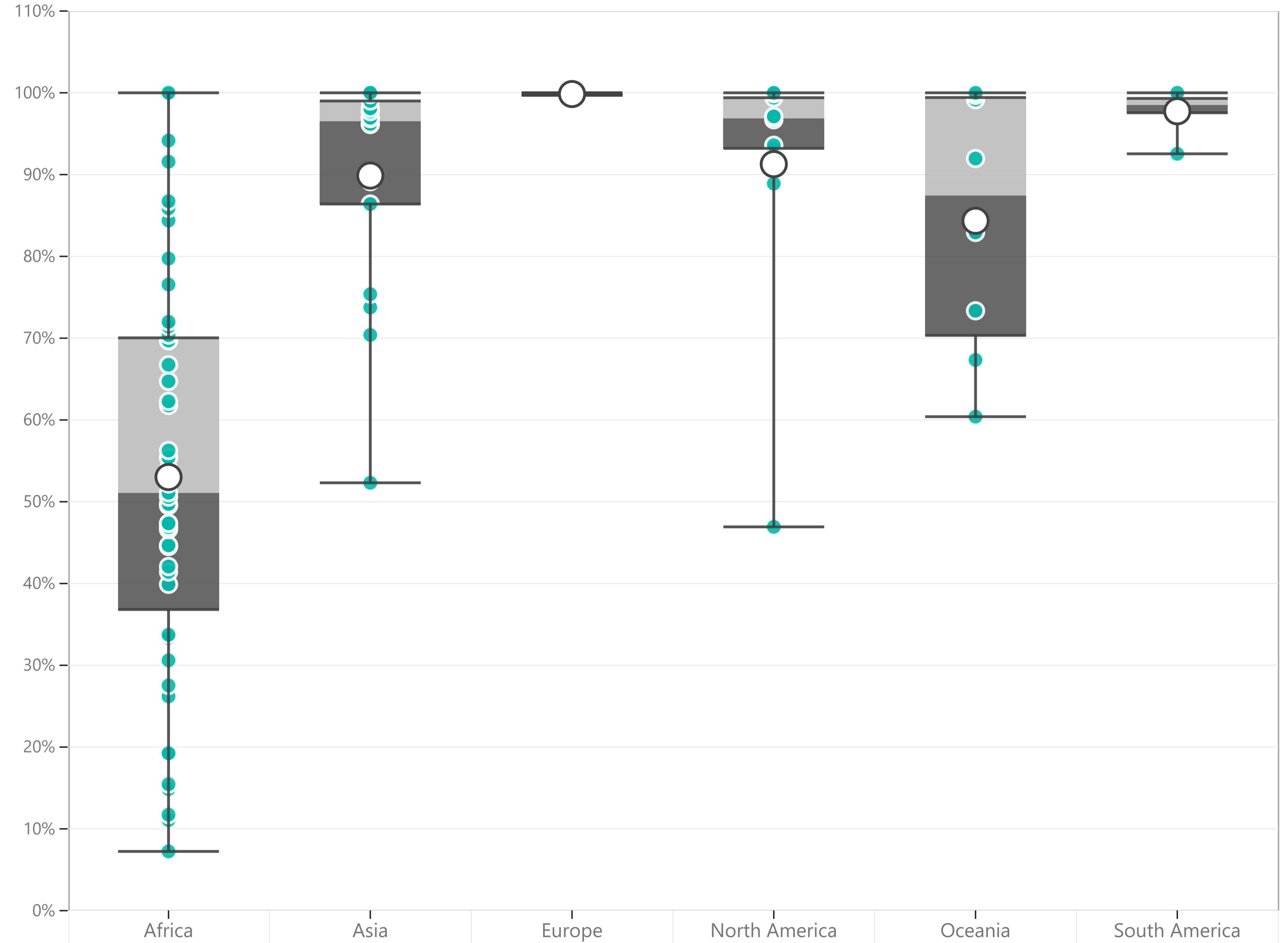
[SHOW TABLE](#)

ACCESS TO ELECTRICITY IN SELECTED CONTINENT (AVG)





## GLOBAL ELECTRICITY ACCESS VARIABILITY



YEAR

2020



**86.83%**

ACCESS ELICTRICITY (AVG)

**7.24%**

ACCESS ELICTRICITY (MIN)

**100.00%**

ACCESS ELICTRICITY (MAX)

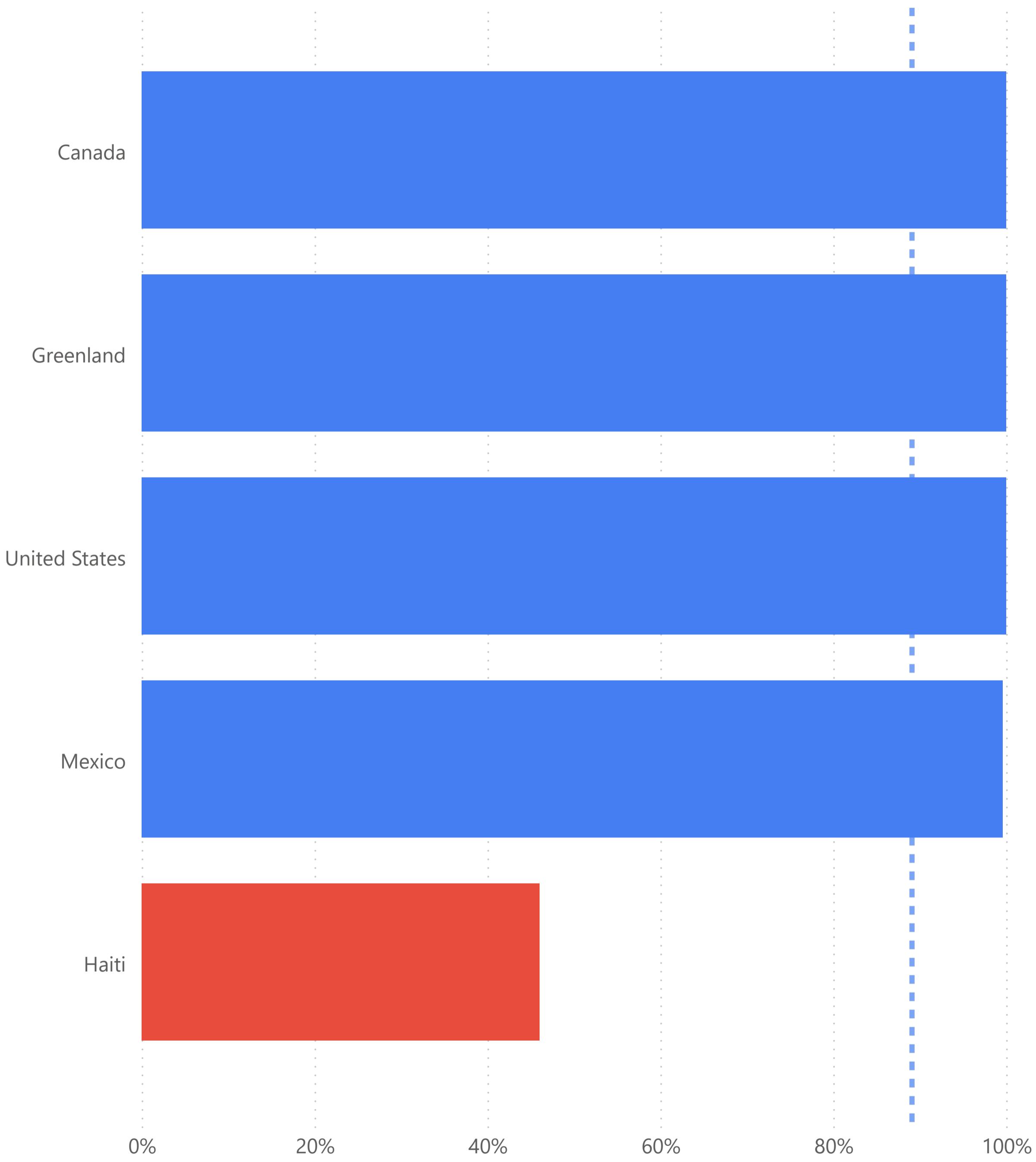
**100.00%**

ACCESS ELICTRICITY (MEDIAN)



## ACCESS TO THE ELECTRICITY IN NORTH AMERICA COUNTRIES (AVG)

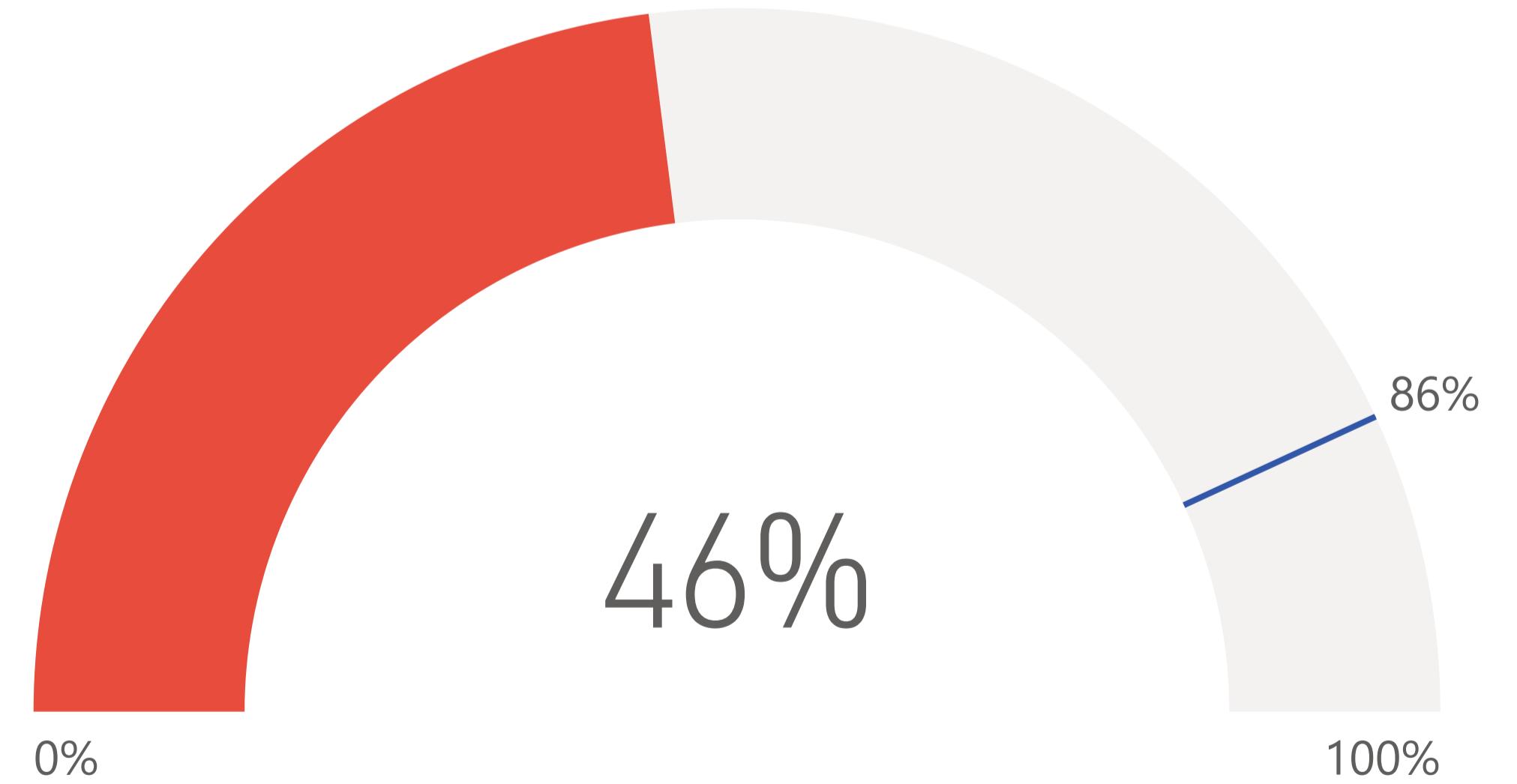
CHART VERSION



## YEAR

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

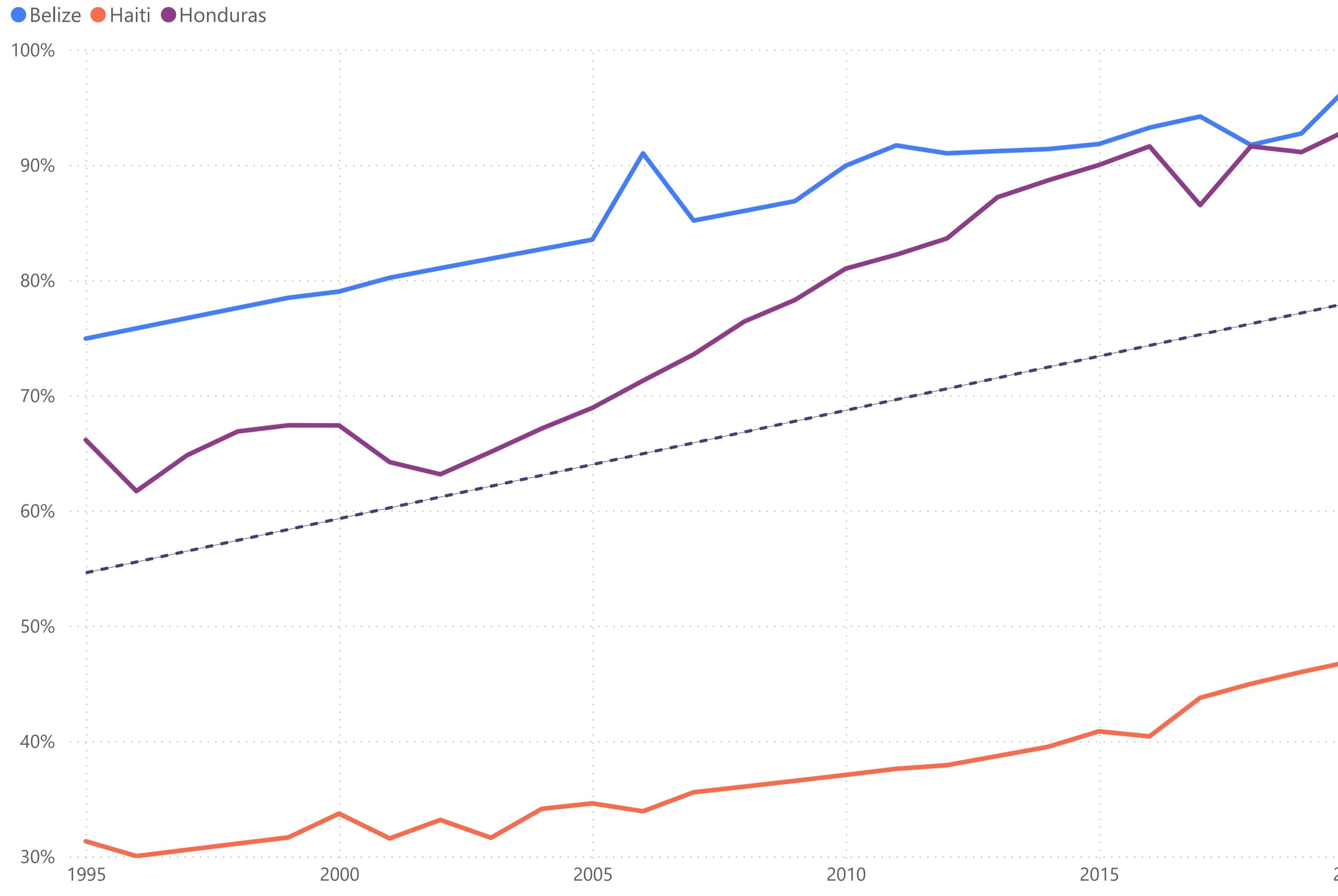
## HAITI'S ACCESS TO THE ELECTRICITY IN SELECTED YEAR (AVG)





# ELECTRICITY IN NORTH AMERICA COUNTRIES

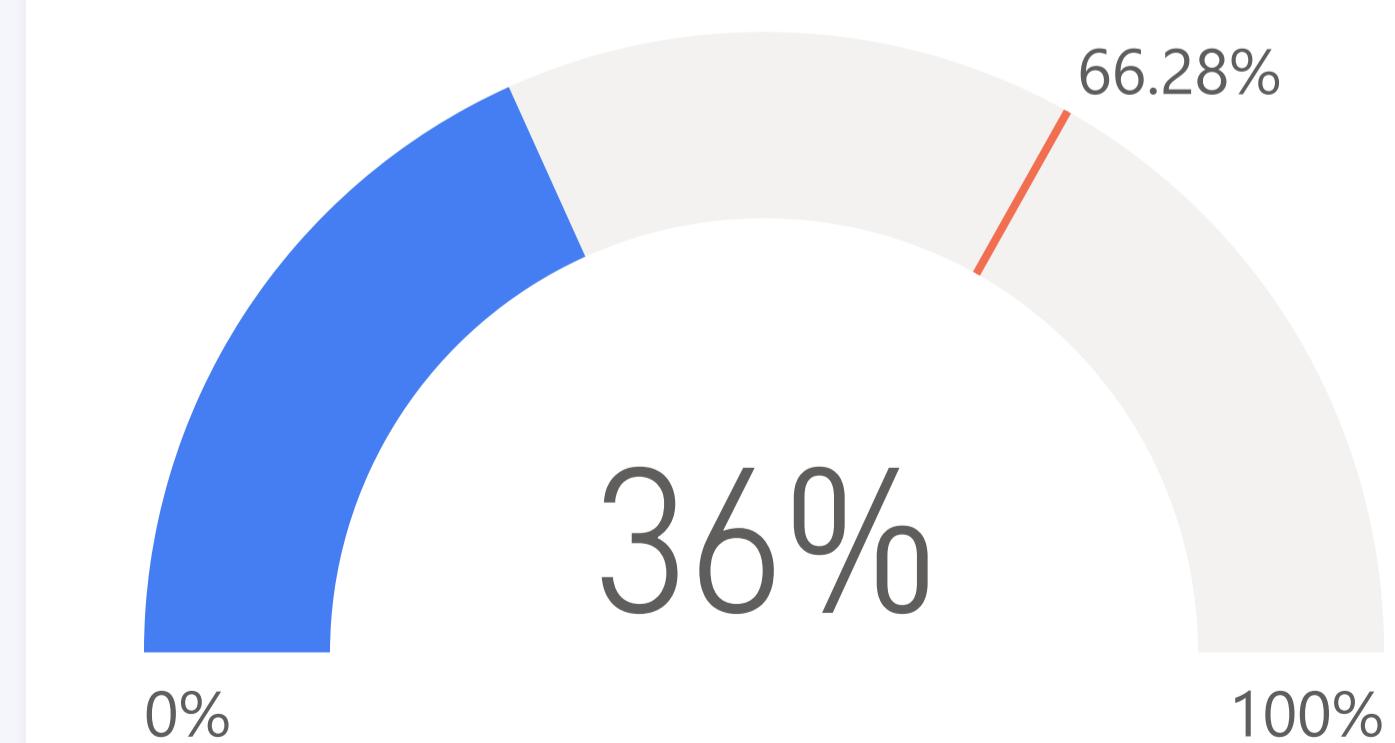
## ACCESS TO ELECTRICITY (AVG)



## COUNTRY

Multiple selections

## HAITI COMPARED TO SELECTED COUNTRIES (AVG)





# Global GDP per Capita in Selected Year

[SHOW GDP VARIABILITY](#)[SHOW HAITI'S GDP](#)

CONTINENT

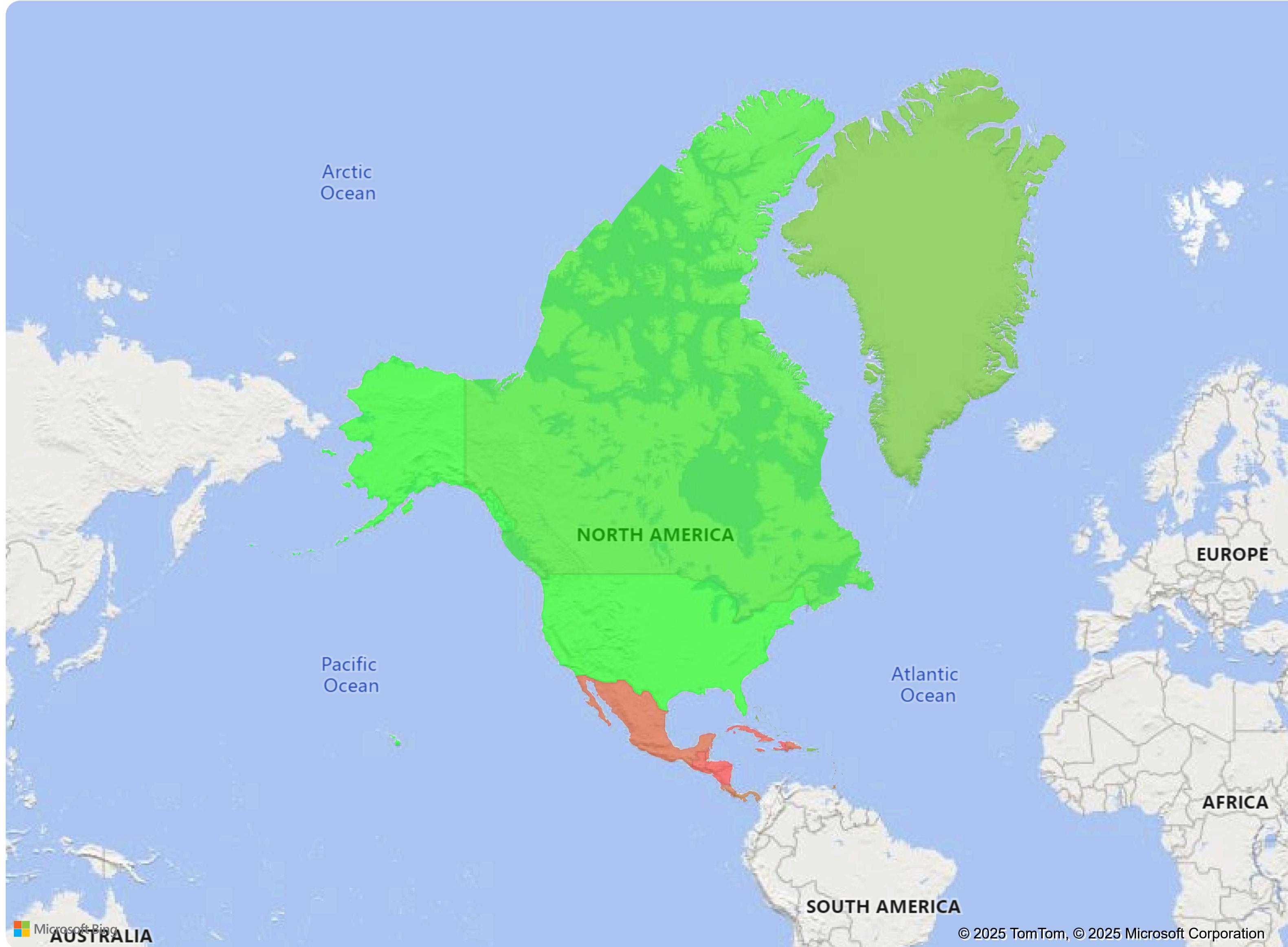
North America

YEAR

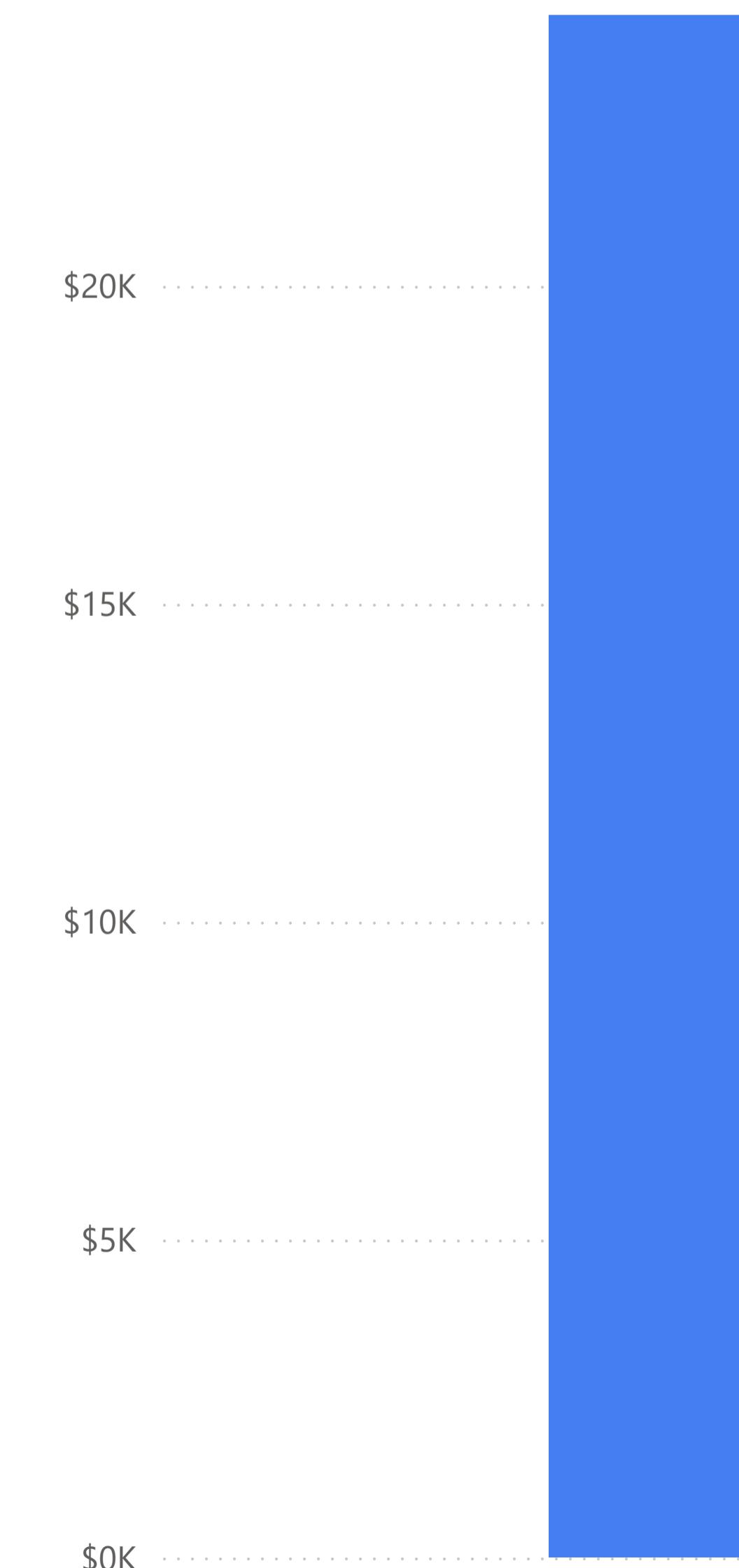
2022

\$24K

GDP PER CAPITA IN SELECTED AREA

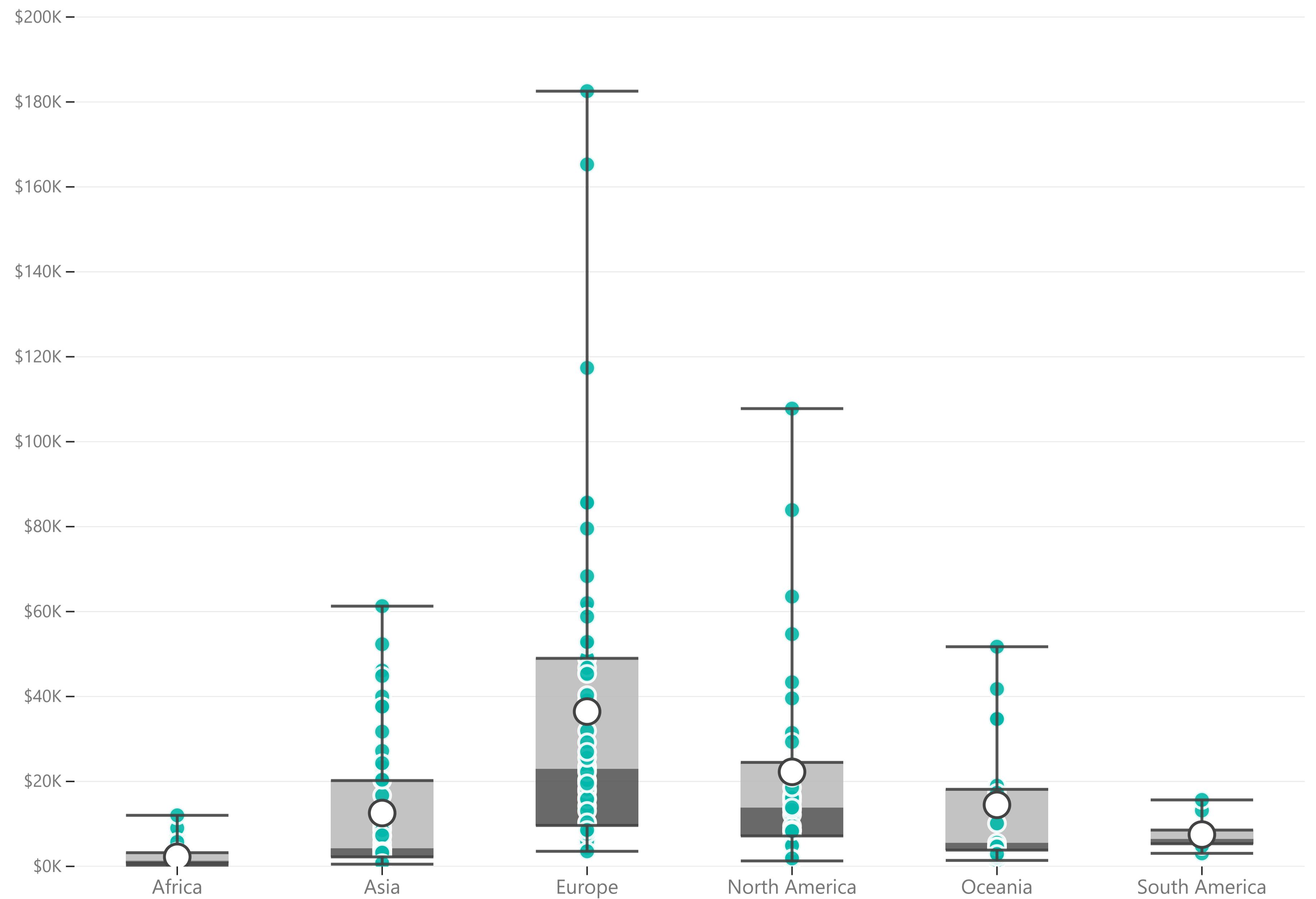
[SHOW TABLE](#)

GDP PER CAPITA IN SELECTED CONTINENT (AVG)





## GDP PER CAPITA VARIABILITY



YEAR

2020



**\$4M**

GDP PER CAPITA (AVG)

**\$217**

GDP PER CAPITA (MIN)

**\$182.54K**

GDP PER CAPITA (MAX)

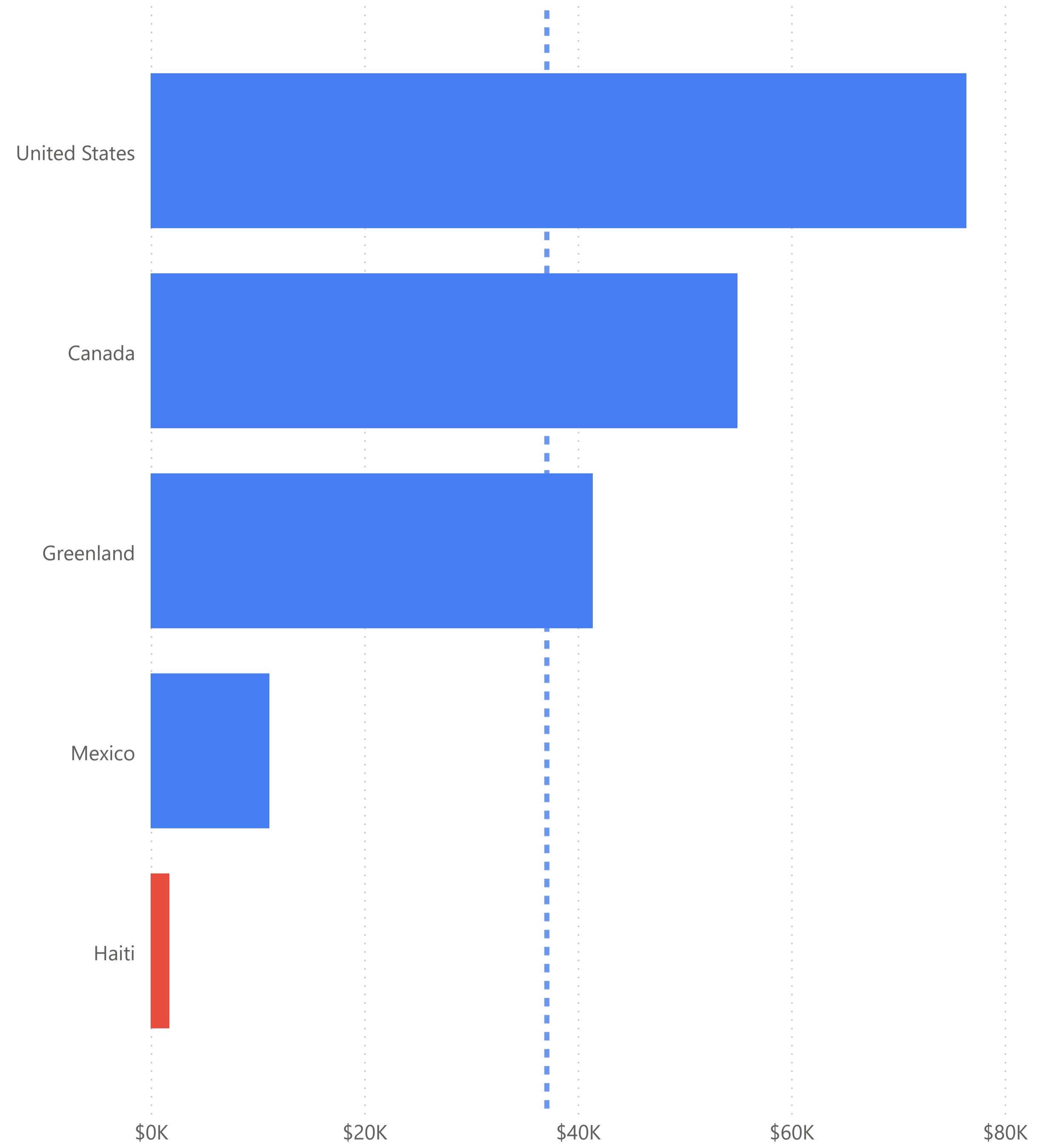
**99.40%**

GDP PER CAPITA (MED)



## GDP PER CAPITA IN BIGGEST COUNTRIES IN NORTH AMERICA (AVG)

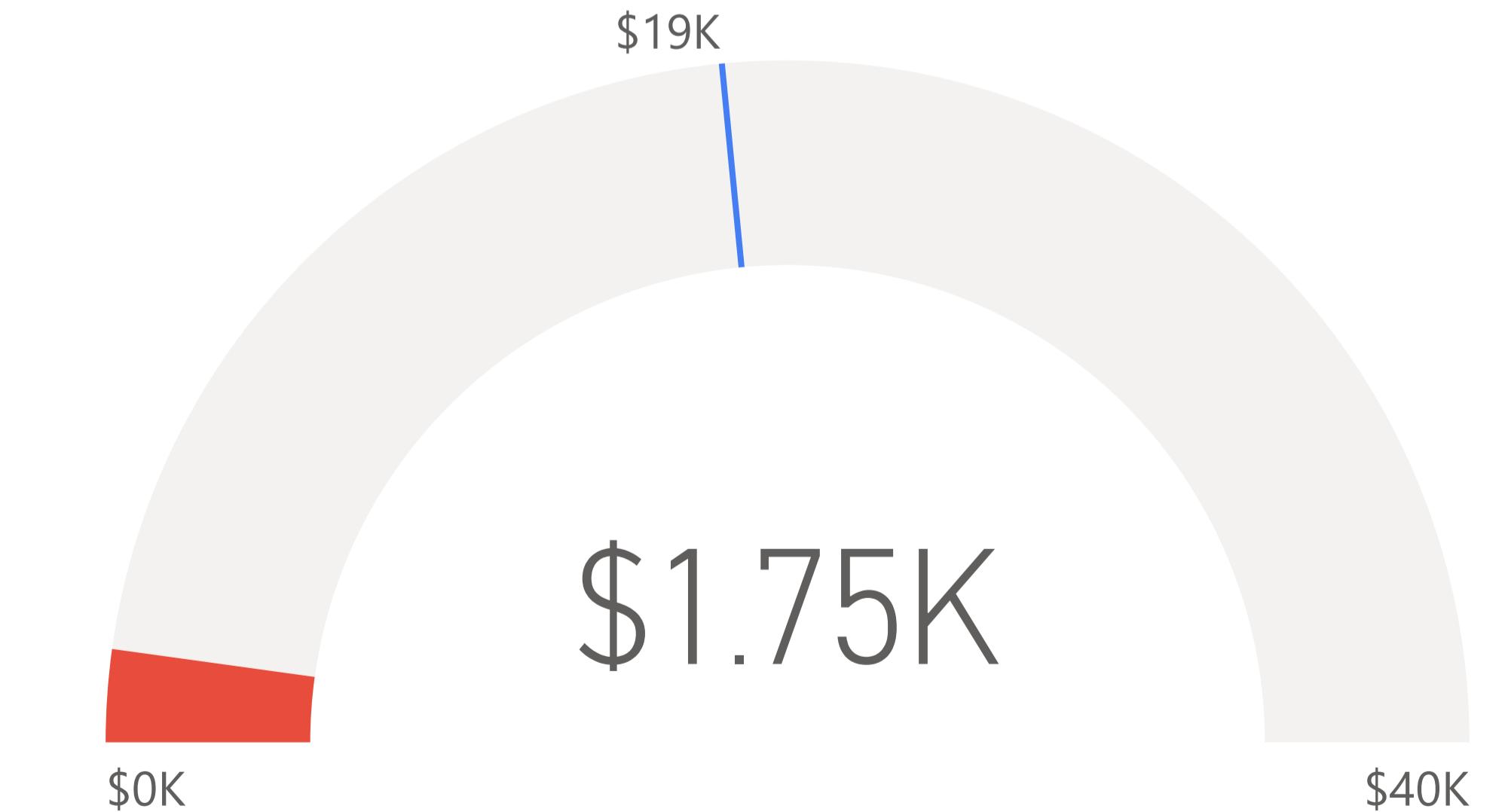
CHART VERSION



## YEAR

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

## HAITI'S GDP PER CAPITA IN SELECTED YEAR (AVG)

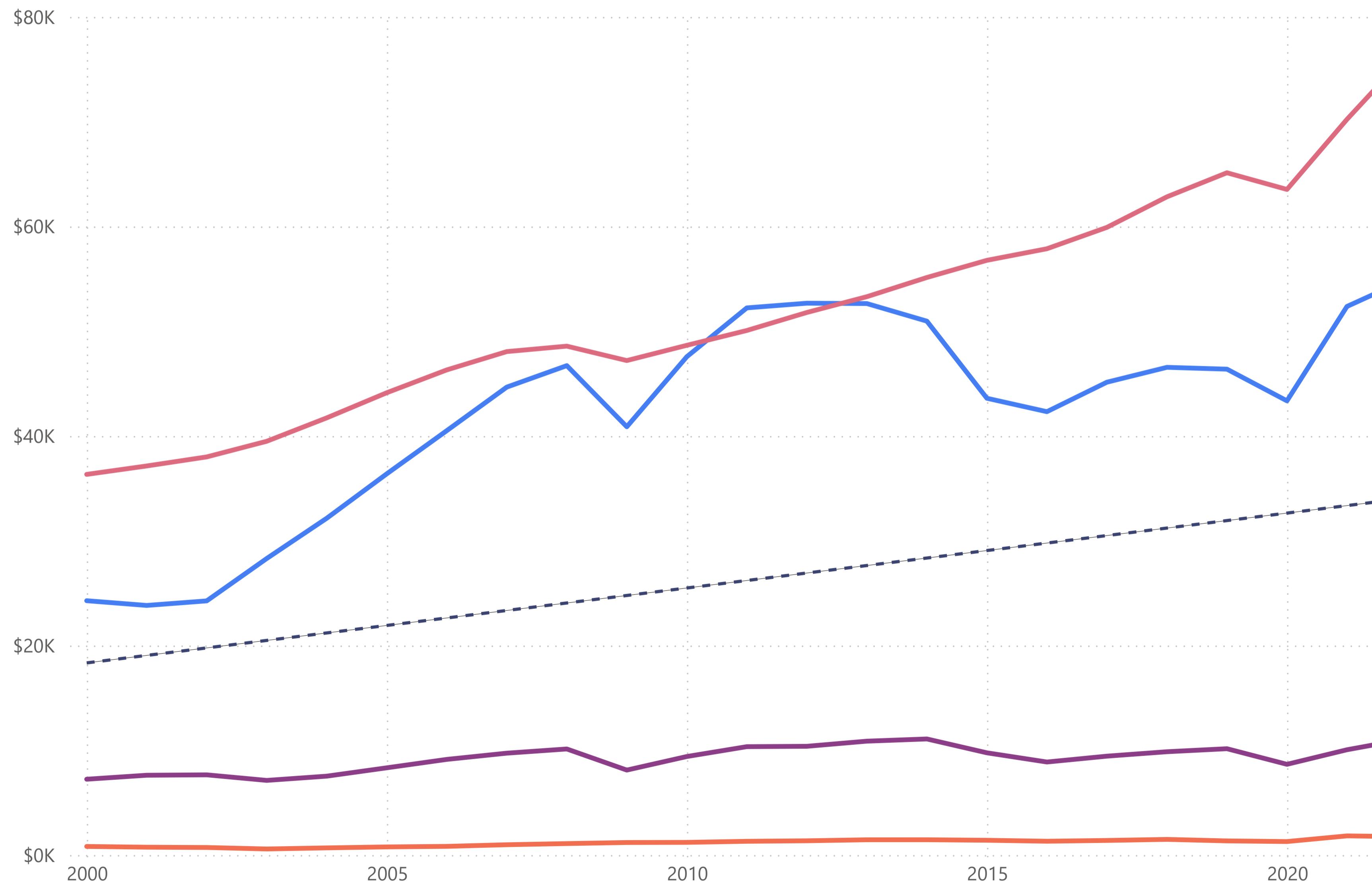




# GDP PER CAPITA IN NORTH AMERICAN COUNTRIES

## GDP PER CAPITA (AVG)

Canada ● Haiti ● Mexico ● United States

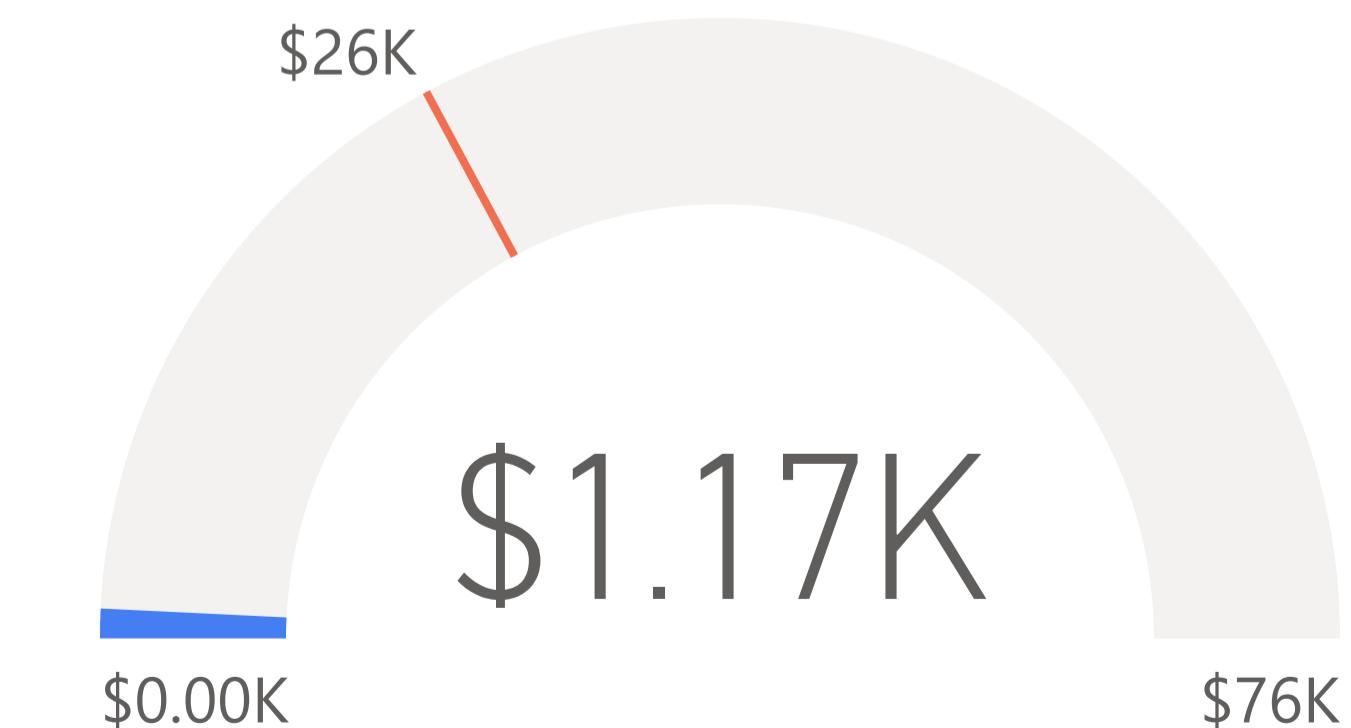


## COUNTRY

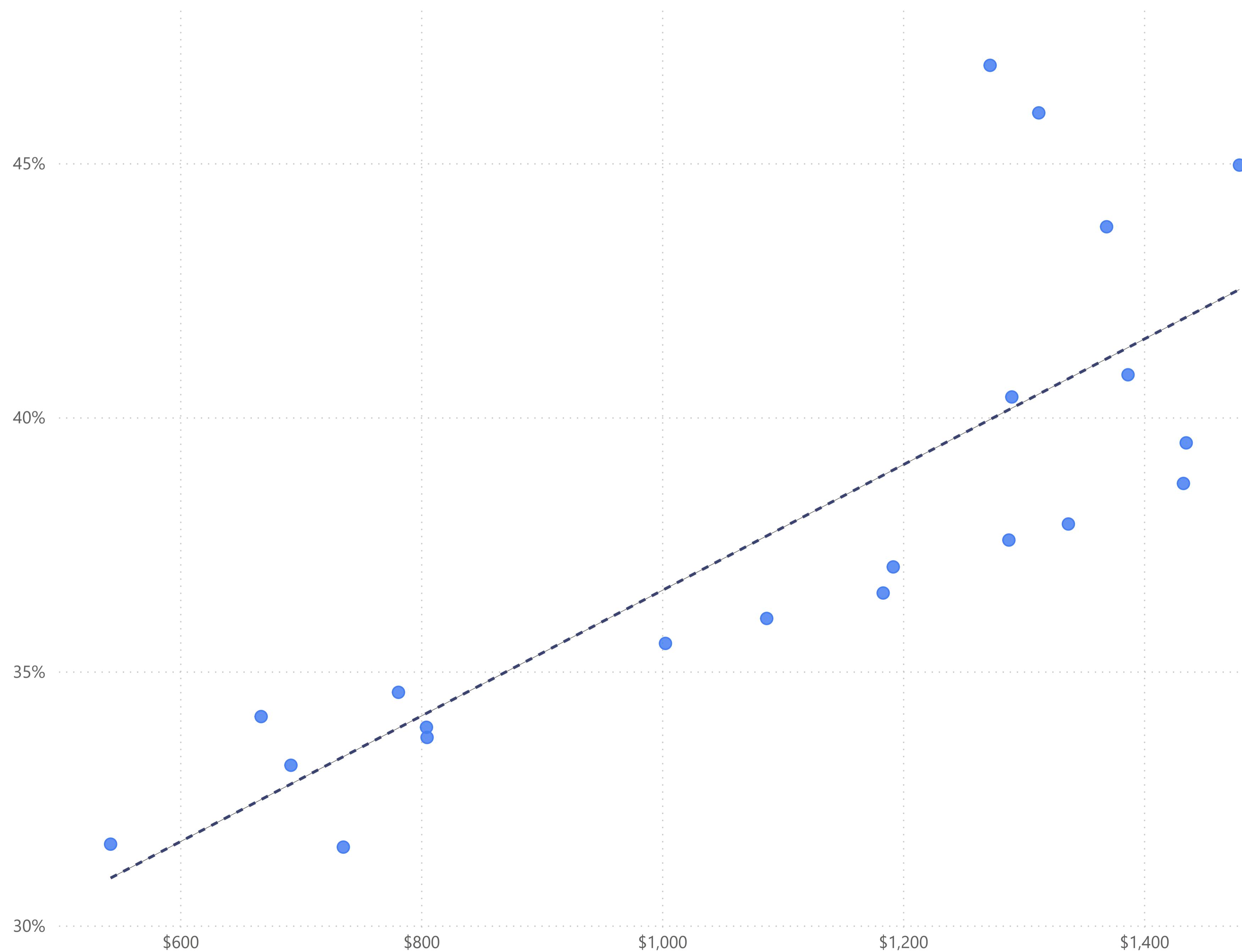
Multiple selections

**\$26K**  
GDP Per Capita (AVG)

## HAITI COMPARED TO SELECTED COUNTRIES (AVG)



### ACCESS TO ELECTRICITY AND GDP PER CAPITA IN HAITI (AVG)



### STRENGTH OF CORRELATION COEFFICIENT



0.81

0.00

1.00

0-NEUTRAL

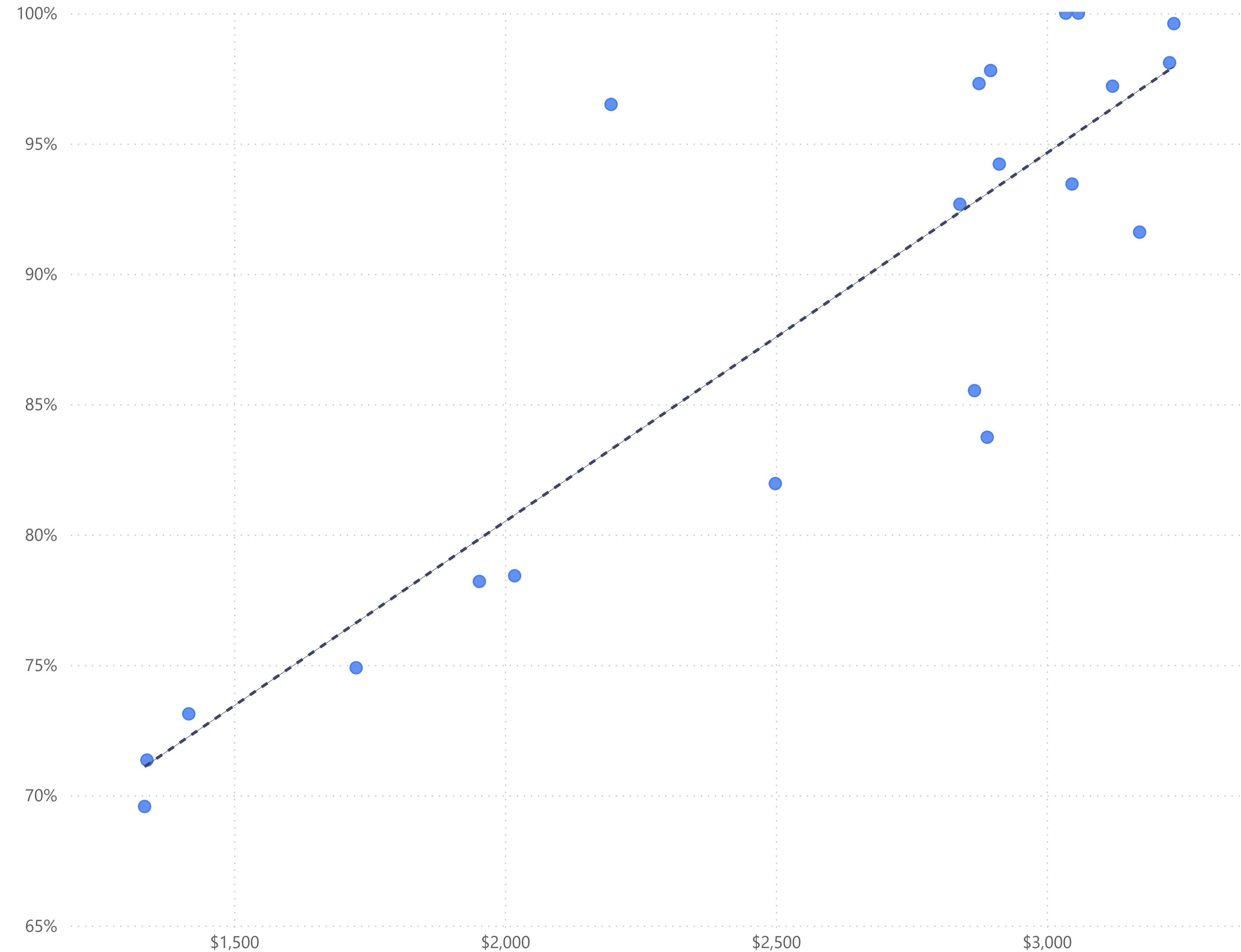
1-STRONG POSITIVE

0.81

CORRELATION COEFFICIENT ELECTRICITY VS  
GDP PER CAPITA



## ACCESS TO ELECTRICITY AND GDP PER CAPITA IN SELECTED COUNTRY(AVG)



## COUNTRY

Search

Afghanistan

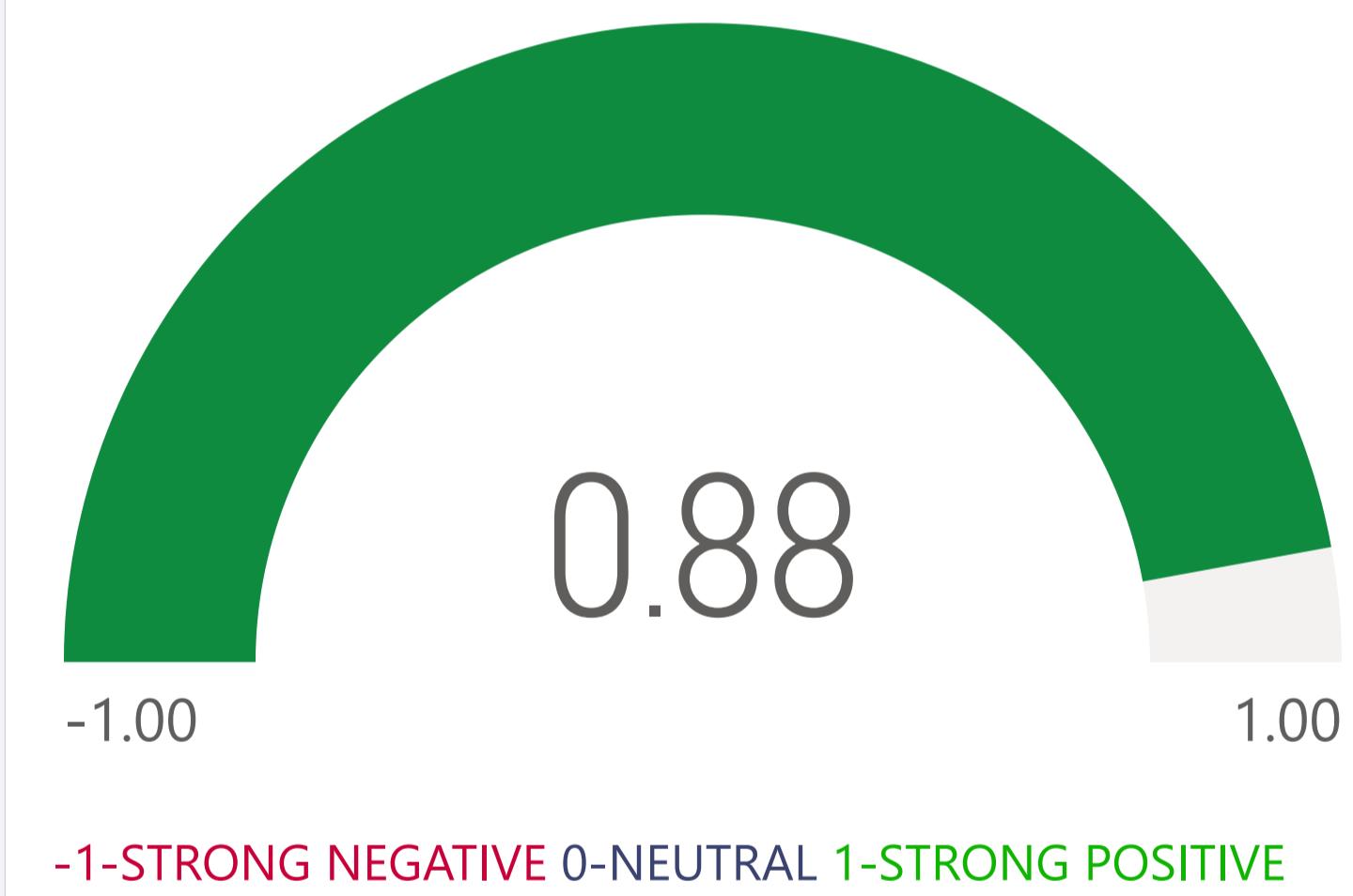
Albania

Algeria

Angola

Antigua and Barbuda

## STRENGTH OF CORRELATION COEFFICIENT



0.88

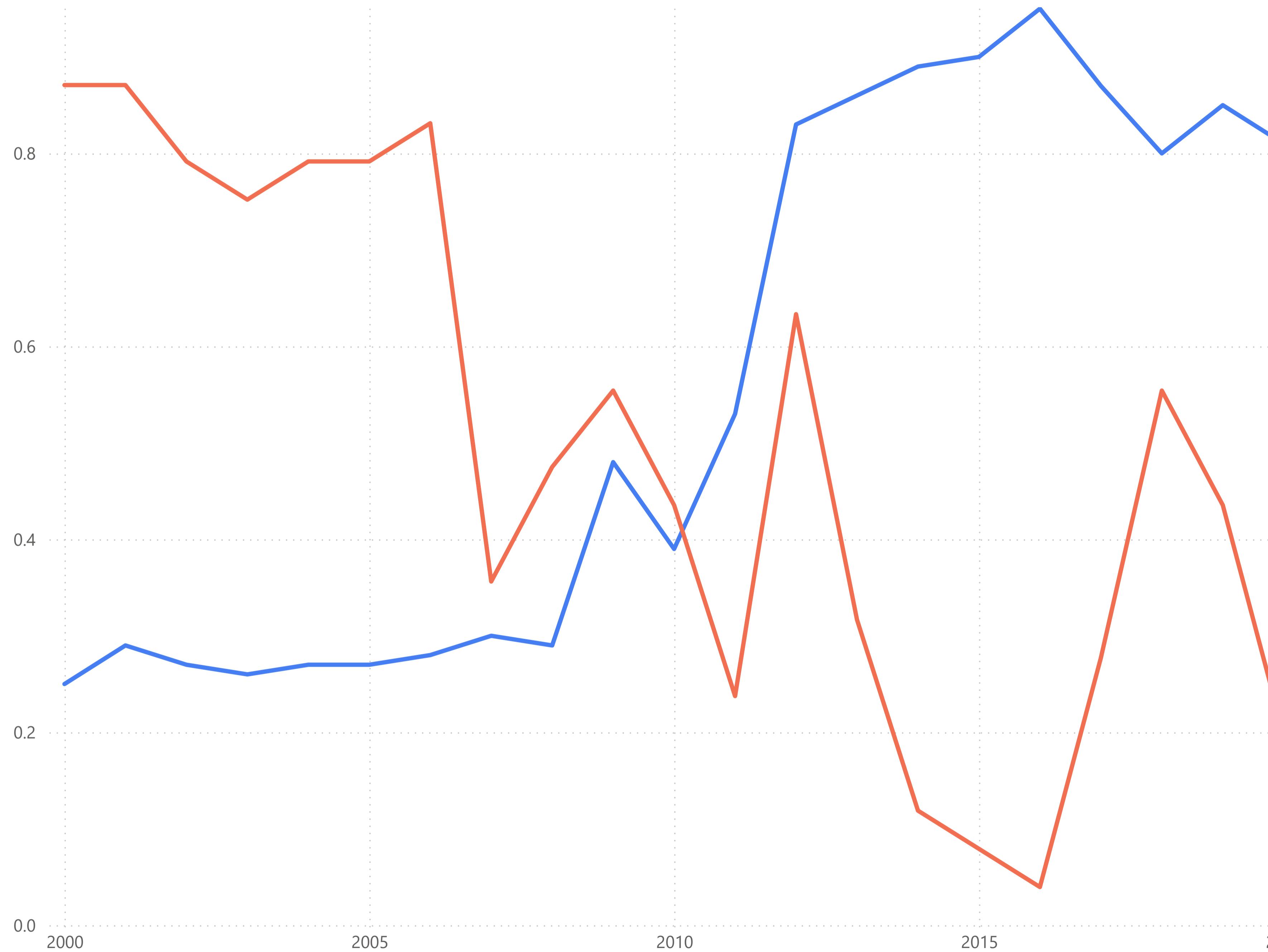
CORRELATION COEFFICIENT ELECTRICITY VS  
GDP PER CAPITA



NEXT SLIDE



Terawatt-hour (TWh) ● ELECTRICITY FROM FOSSIL FUELS (TWH) ● ELECTRICITY FROM RENEWABLES (TWH)



## COUNTRY

🔍 haiti

● Haiti

0.55

ELECTRICITY FROM FOSSIL FUELS (TWH) (AVG)

0.19

ELECTRICITY FROM RENEWABLES (TWH) (AVG)



● HAITI GDP PER CAPITA (AVG) ● GLOBAL GDP PER CAPITA (AVG)

\$20K

\$15K

\$10K

\$5K

\$0K

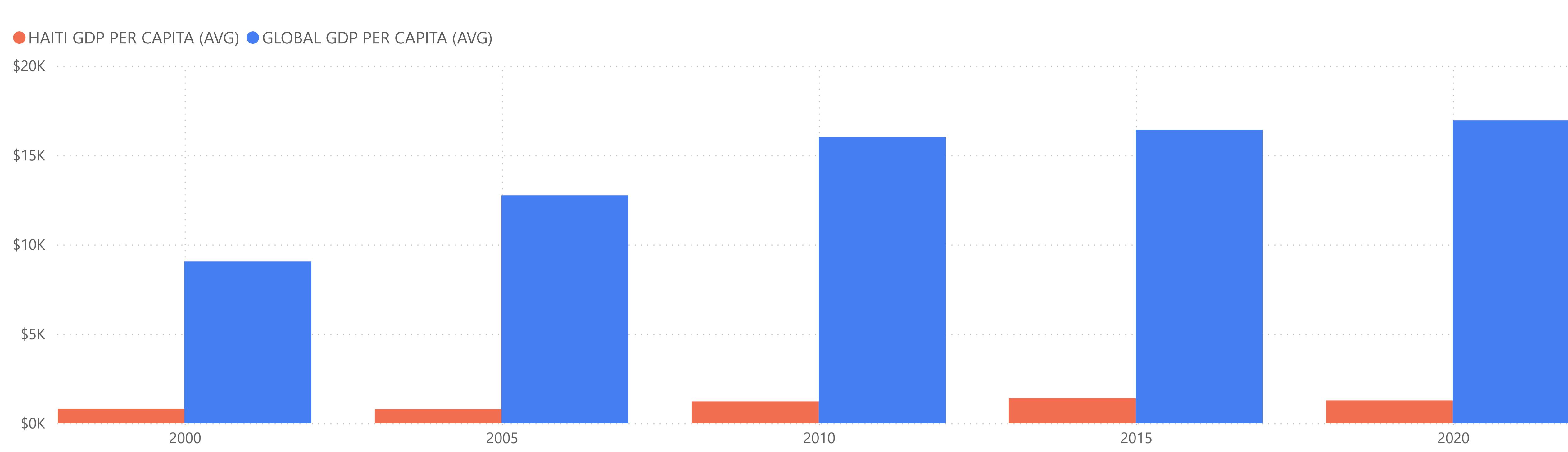
2000

2005

2010

2015

2020



● HAITI ELECTRICITY ACCESS (AVG) ● GLOBAL ELECTRICITY ACCESS (AVG)

80%

60%

40%

20%

0%

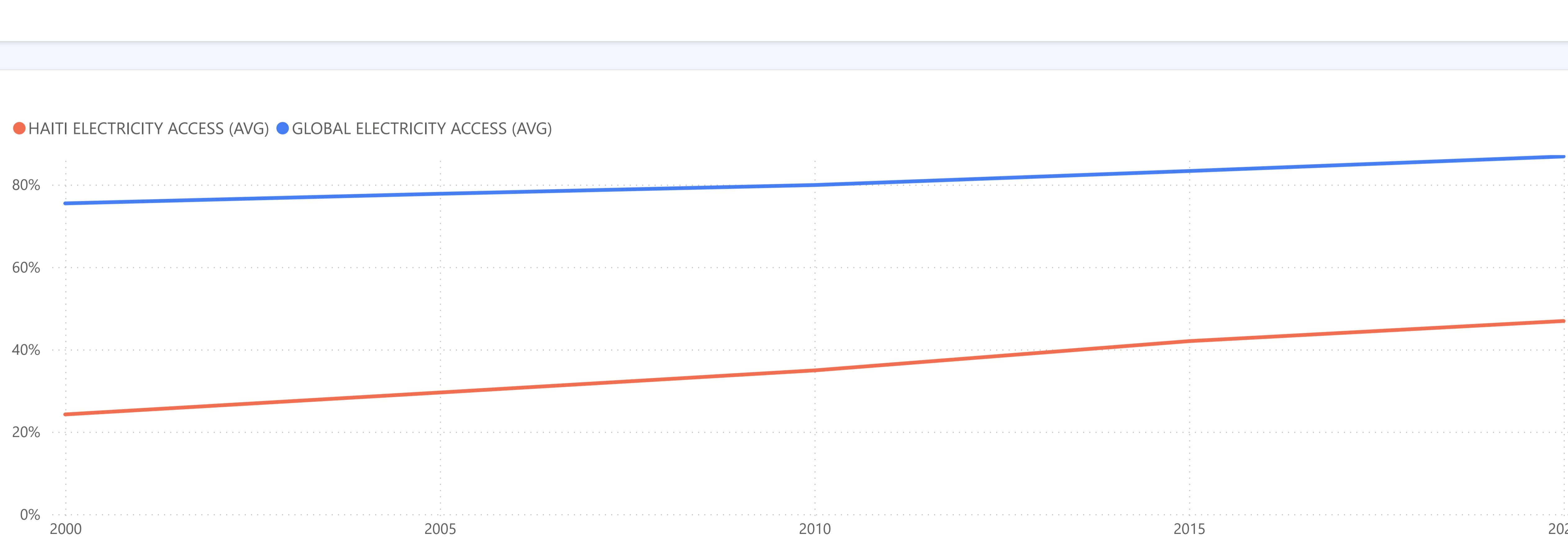
2000

2005

2010

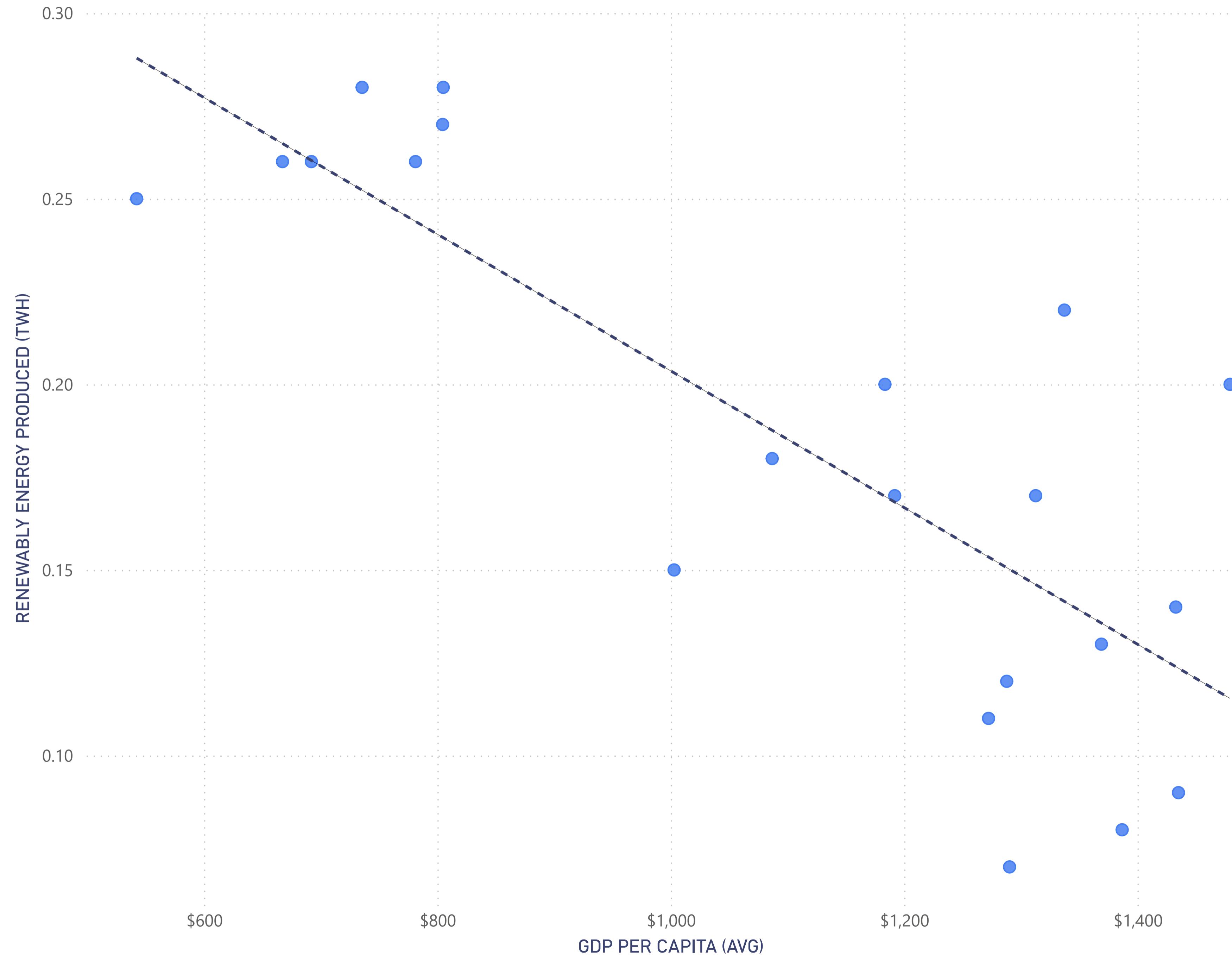
2015

2020





## ENERGY FROM RENEWABLES AND GDP PER CAPITA IN SELECTED COUNTRY(AVG)

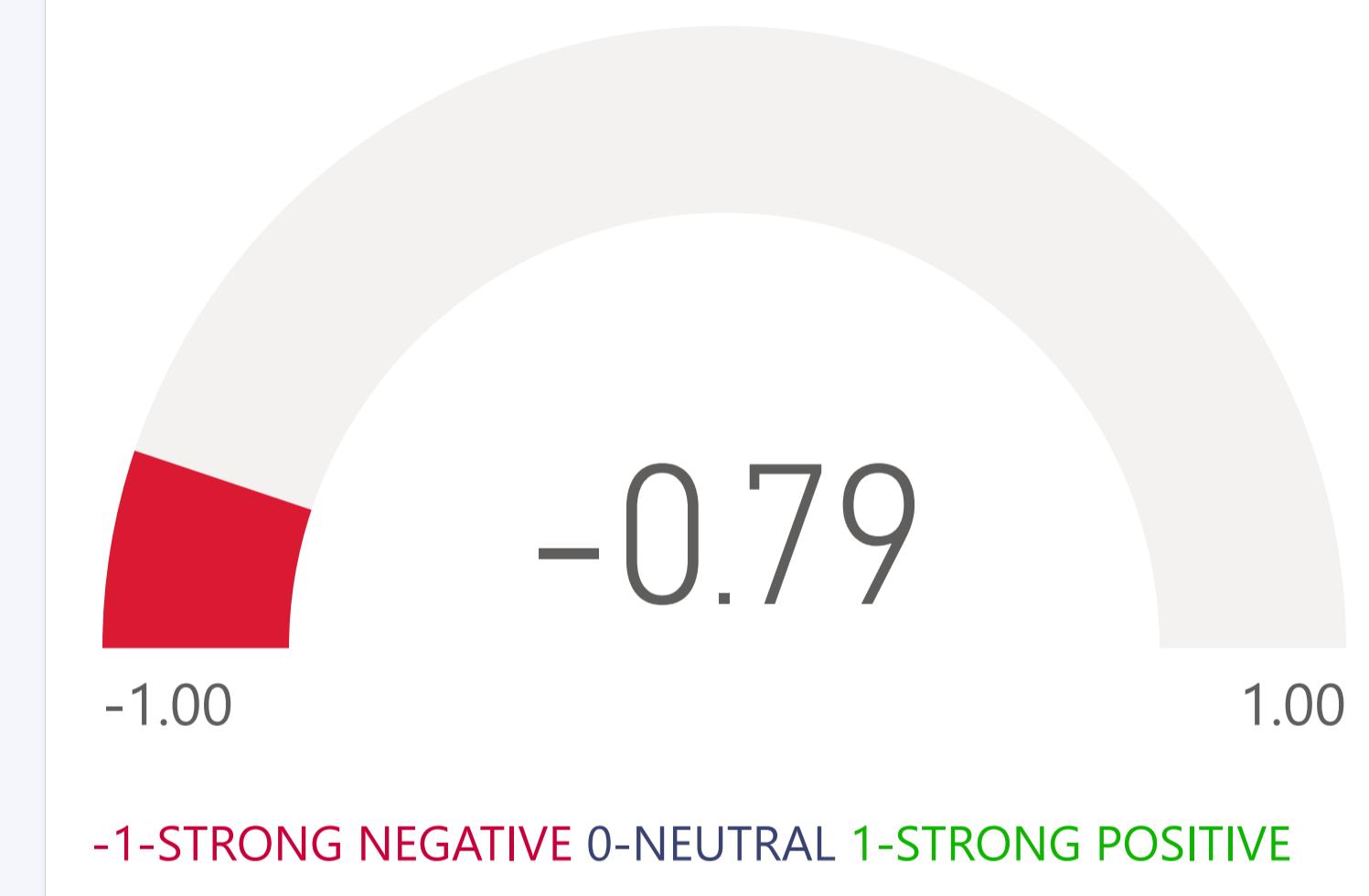


### COUNTRY

haiti

Haiti

### STRENGTH OF CORRELATION COEFFICIENT



**-0.79**

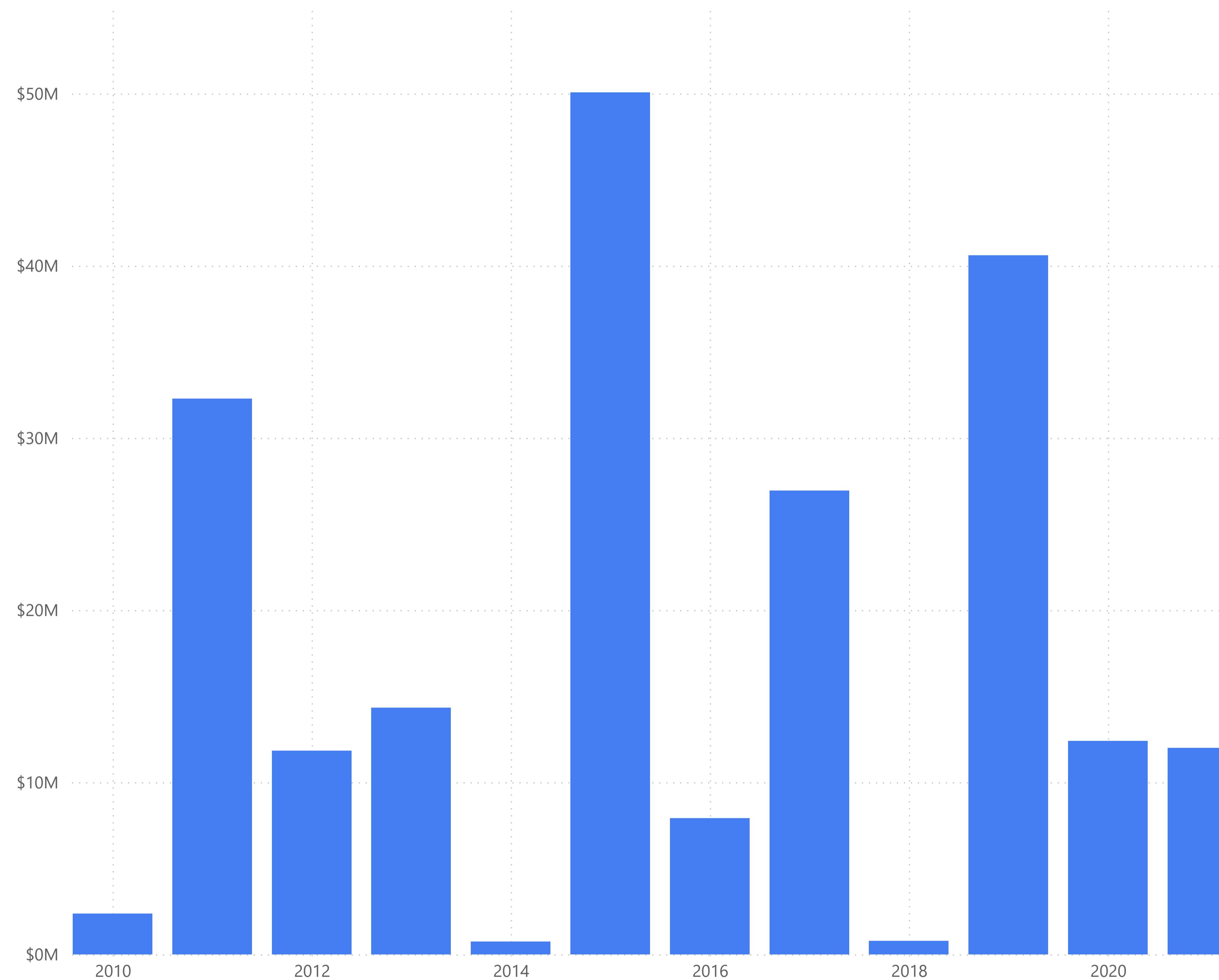
CORRELATION COEFFICIENT ENERGY FROM RENEWABLES VS GDP PER CAPITA



NEXT SLIDE



## INVESTMENTS IN GREEN ENERGY IN SELECTED COUNTRY (YEAR)



### COUNTRY

🔍 HAITI

● Haiti

**\$212M**

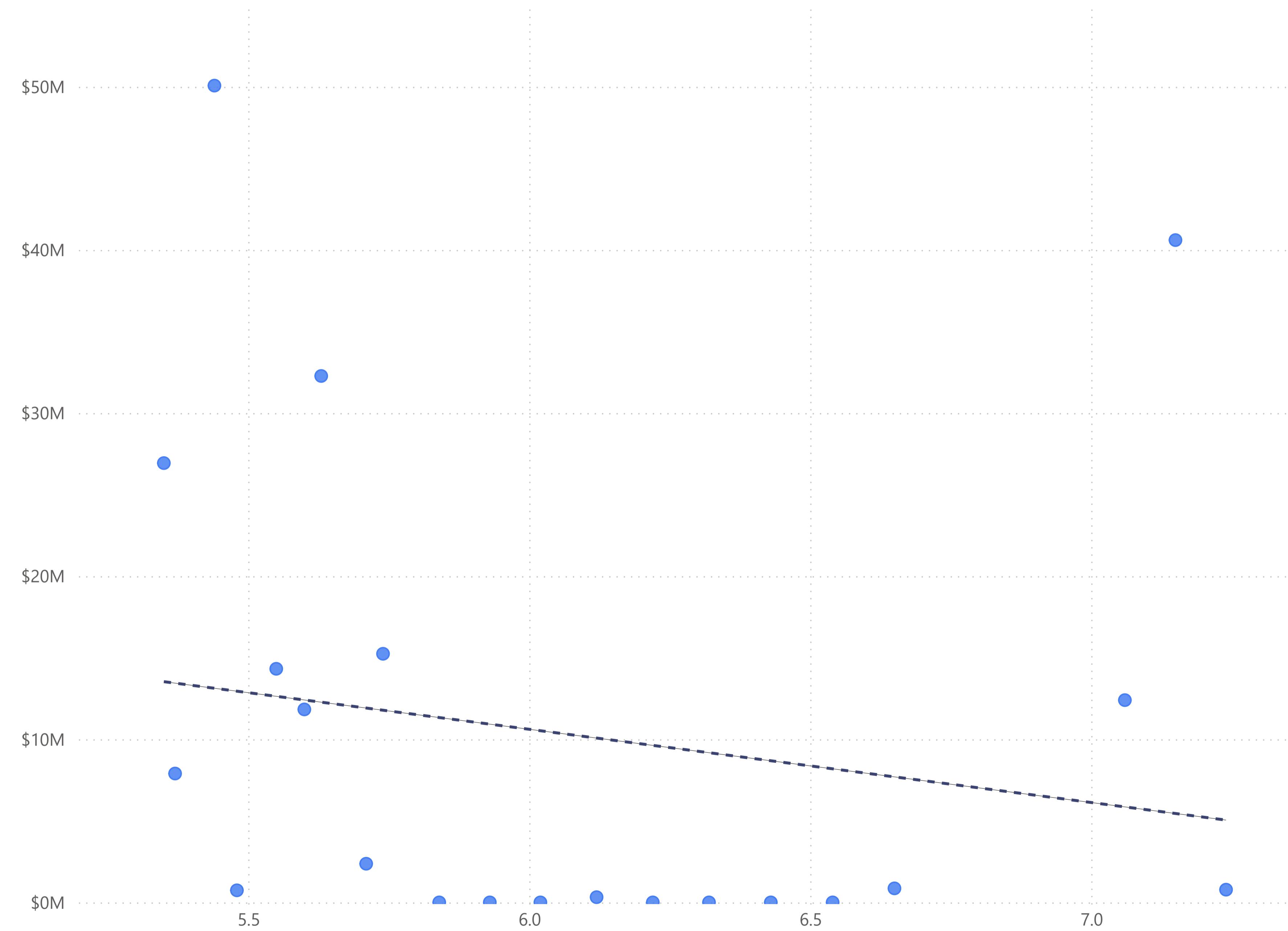
INVESTMENT 2010-2021 (SUM)

**\$18M**

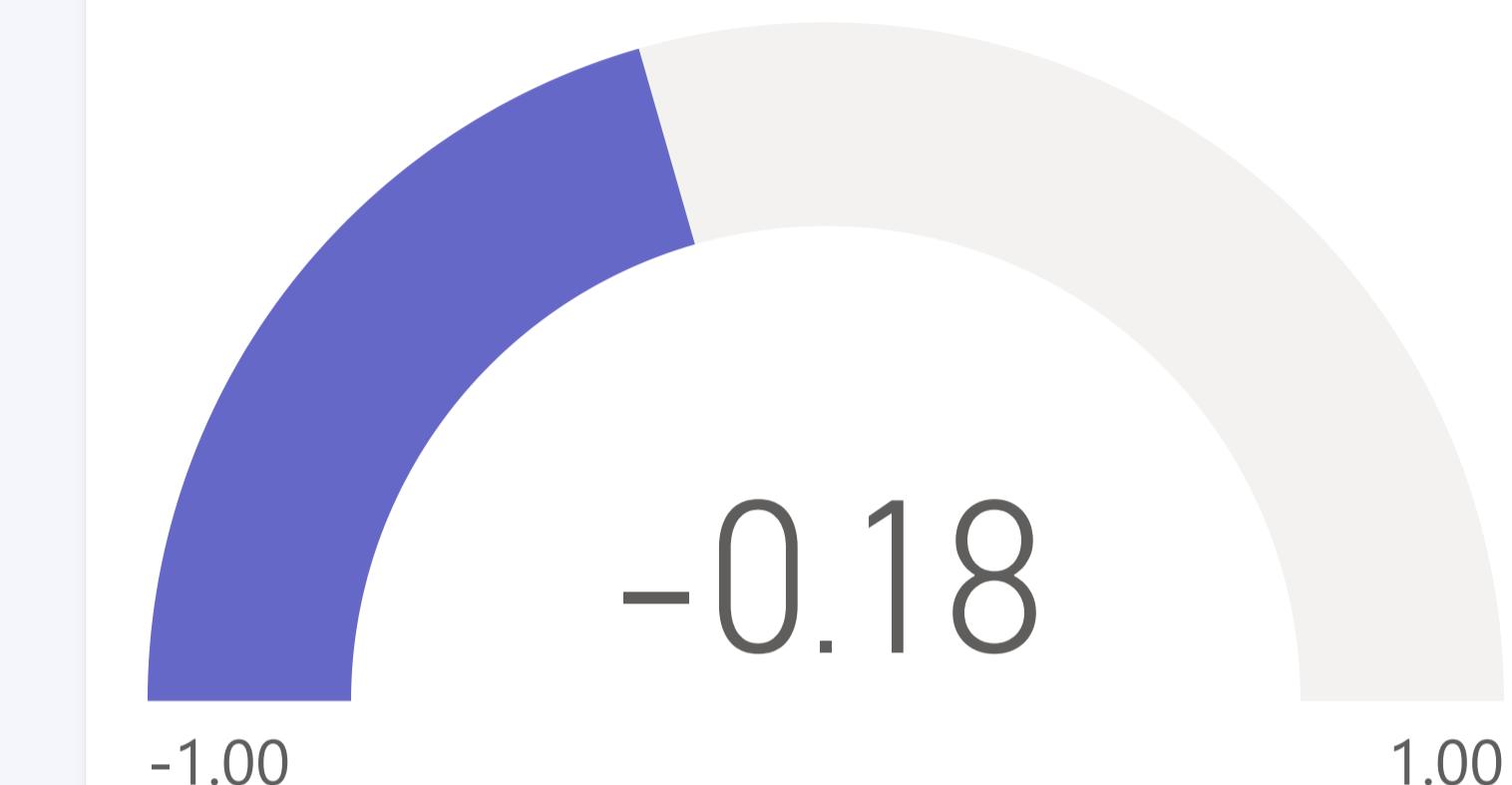
INVESTMENT 2010-2021 (AVG)



## HAITI'S INVESTMENTS IN RENEWABLES AND THEIR GENERATION CAPACITY PER CAPITA (WATTS)



### STRENGTH OF CORRELATION COEFFICIENT



-1-STRONG NEGATIVE 0-NEUTRAL 1-STRONG POSITIVE

**-0.18**

CORRELATION COEFFICIENT INVESTMENTS  
IN GREEN ENERGY VS THEIR GENERATION  
CAPACITY PER CAPITA (WATTS)