# Influences of GDP in the U.S.

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### Abstract

### Keywords

Introduction What is Gross Domestic Product? Gross Domestic Product is one of the main factors that goes into determining a countries economic growth. GDP is the total monetary value of all goods and services that are produced in a country and is a "comprehensive measure of U.S economic activity" Bureau of Economic Analysis (2022). Gross Domestic Product was originally invented in the 1600's but evolved into governmental use in the 1900's. GDP became a national tool to measure a countries economic activity in the 1940's after the Bretton Woods confrence in New Hampshire, US. At this time, Gross National Product was still a main tool to measure production, but in 1991, the United States swiched to using GDP as its main estimate. GDP is calculated by the equation:

$$C + I + G + NX = GDP$$

In this equation, "(C) represents private-consumption expenditures by households and nonprofit organizations, investment (I) refers to business expenditures by businesses and home purchases by households, government spending (G) denotes expenditures on goods and services by the government, and net exports (NX) represents a nation's exports minus its imports." (CITE BRITICANICA) This equation is one that is learned in any introduction to macroeconomics courses. Calculating GDP is something that economists have accomplished and this equation is accepted in the industry. What economists are now researching is what factors impact Gross Domestic Product. There has been an abdunace of research in this field related to what variables are significant. Which factors have been researched are subjective based on those who are conducting the study.

Divya and Devi (2014) found that exchange rates and market indexes are important factors that influence an economies GDP. They also found that inflation is highly correlated, but not a significant influencer.

(cite GDP PARAdox) researches the critism behind GDP's influence in economies. They compare the understanding that even though GDP can influence economically relevant decisions, it does not factor in social welfare. Since GDP is a global indicator "The importance of GDP information for firms, investors and citizens/consumers is illustrated by the media

– television, radio, newspapers, financial and other magazines, and internet – informing us on a daily basis about the status of our national GDP, both over time and in comparison with other countries." (cite PARADOX) They also touch on how government agencies and politicians strive to avoid low GDP. When GDP is low, this can lead to negative voter response, and less public expenditures, which are both fatal prospects for those in power (cite PARADOX)

Szustak found that the relationship between power production and GDP is random. This Kalyoncu found that there is "unidirectional causality from per capita GDP to per capita energy consumption for Armenia." (cite dergipark thing). Their research focused on the relationship between energy consumption and economic growth. The countries they focused their study on, Georgia, Azerbaijan and Armenia from 1995 to 2009, all faced low energy supply.

For this paper, we will quantify the relation between influencers of GDP.

Data The economic data used in this research was collected from Federal Reserve Economic Data(FRED). This is an online database that is maintained by the Research Department at the Federal Reserve Bank of St. Louis. The energy data used in this research was collected from the U.S. Energy Information Administration website. The EIA "ollects, analyzes, and disseminates independent and impartial energy information to promote sound policymaking, efficient markets, and public understanding of energy and its interaction with the economy and the environment." (EIA)

#### Methods

**Application** 

Discussion

**Appendix** 

## References

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