

**Detrimental Effects COVID-19 Imposed on the Environment****Gyuri (Leah) Kim**¹Bergen Technical High School, Teterboro, NJ, USA**Abstract**

This paper turns to the Key Performance Indicators (KPIs) that pertains to the information of the world's city leaders' approaches to environmental sustainability pre- and the first year of the pandemic. In total, the aggregate score of KPIs across the two years are observed. First, the results from the t-test show a positive and significant increase in KPIs after the start of the pandemic ($t(682)$, $p\text{-value} = .001$). Second, the relationship between KPIs and macro-level characteristics are captured. It can be concluded that KPIs are positively and significant determinants of the GDP per capita. Finally, one prominent finding is that a higher GDP per capita is associated with lower temperatures, whereas lower population size relates to greater KPIs.

Biography

Gyuri (Leah) Kim is a senior at Bergen Technical High School in New Jersey, USA. She is interested in pursuing a career in environmental studies and finding creative, long-term solutions for climate change.