

# Research Internship

## **Natural Gas Reserves in Latin-America**

### **Background**

While Latin American and Caribbean countries have increased the use of renewable sources in electricity production, most of the energy produced in the region, including other uses such as transportation or industry, still comes from fossil fuels such as natural gas, oil and coal. In many regions of Latin America and the Caribbean, these fossil fuels represent 75% or more of the resources used for energy production. Especially oil and natural gas still account for the majority of resources used for energy production in 4 of the 5 Latin American regions (IDB, 2019). Considering the LATAM high dependence on fossil fuels, and at the same time the region commitment to reduce GHG emissions, it is important to quantify their fossil fuels reserves in order to think in decarbonizing their energy system in the near future. This study will focus on natural gas such a transition fuel until reaching the renewable mix, and with the possibility to export it to Europe.

## Goal and objectives

- Determine the natural gas reserves located in Latin-America according to existing bibliography.
- Present a Geospatial location map of NG reserves in Latin-America (QGIS, ArcGIS).
- Determine the necessities of NG for the Energy Mix in Latin-America until 2050.

#### Requirements

- Interest in the topic
- Programming skills (QGIS. ArcGIS knowledge is a plus)
- · Working languages: English, Spanish

#### Contact:

Carolina Godoy, M.Sc.
<a href="mailto:carolina.godoy@tum.de">carolina.godoy@tum.de</a>
Chair of Renewable and Sustainable Energy Systems (Prof. Dr. rer. nat. T. Hamacher)