

# WIND FARM SUITABILITY ANALYSIS

## Problem

As our need for alternative energy increases, we can use the suitability analysis model to select sites for offshore wind farms near Corpus Christi, Texas.

## Introduction

A Corpus Christi energy company approached the windfarm team to identify offshore areas for suitable wind farm sites to support 300MW of capacity. In 2015, the typical wind turbine produced 6MW of energy, is 100m in height and has a 150m meter rotor size. To support a capacity of 300MW proposed energy, a typical grid size 60ha will be required. To put into perspective a 30MW grid supplies electricitly to 17k homes. Corpus Christi has 117k homes.

## Sensitivity Analysis Model

