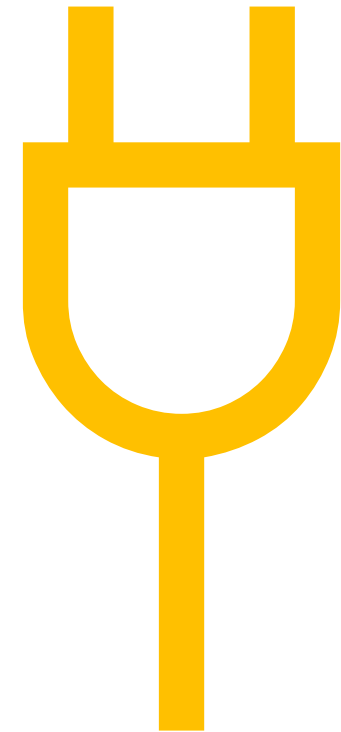


Hunter Browning-Smith

# Electrical Grid Stability: A Regression Analysis



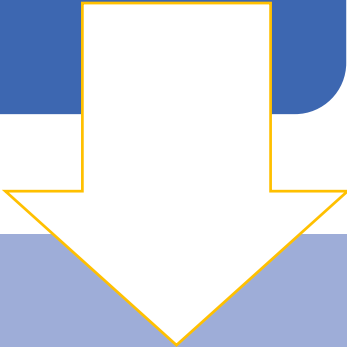


# Background

The world is transitioning at an accelerating rate to renewable energies – most of which is derived from solar and wind

# The Problem

Renewable  
energies are  
“intermittent”



Intermittent  
energy sources  
put stress on  
the grid

The background of the slide features a series of thin, curved lines in the top-left and bottom-right corners, creating a sense of motion or a stylized globe. The main area is white.

The Solution

Decentralized Smart  
Grid Control (DSGC)

# How it works

Logistic Regression utilizes selected inputs to evaluate grid stability

Result is a model which quantifies impacts (like accurate pricing) of variable energy production sources (like solar and wind)

DSGC manages electrical grid and optimizes grid stability while minimizing blackouts and inefficient distribution practices



# Who benefits?

Energy providers

Energy policy makers

Energy consumers