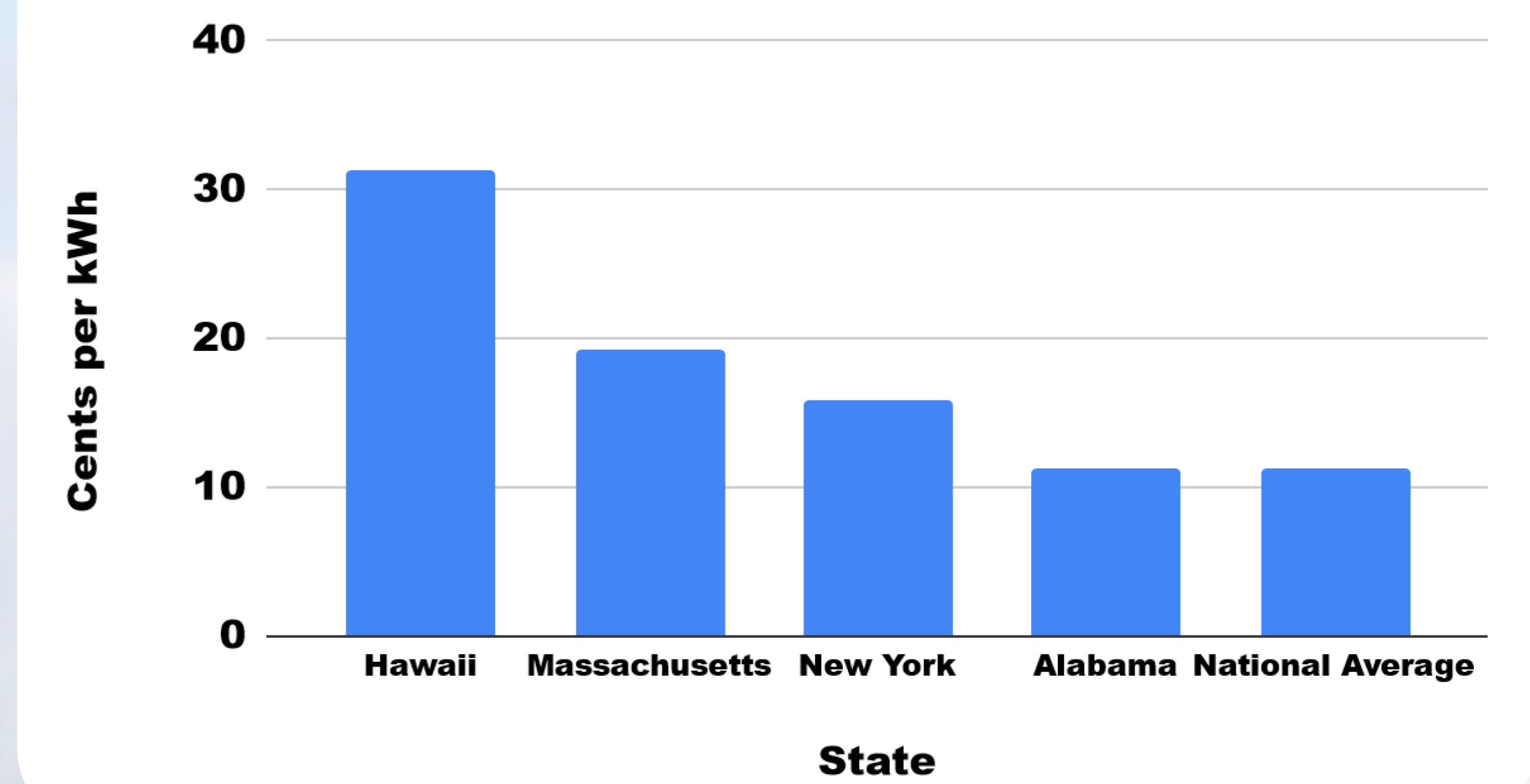




Background



Average Electricity Costs (2021)

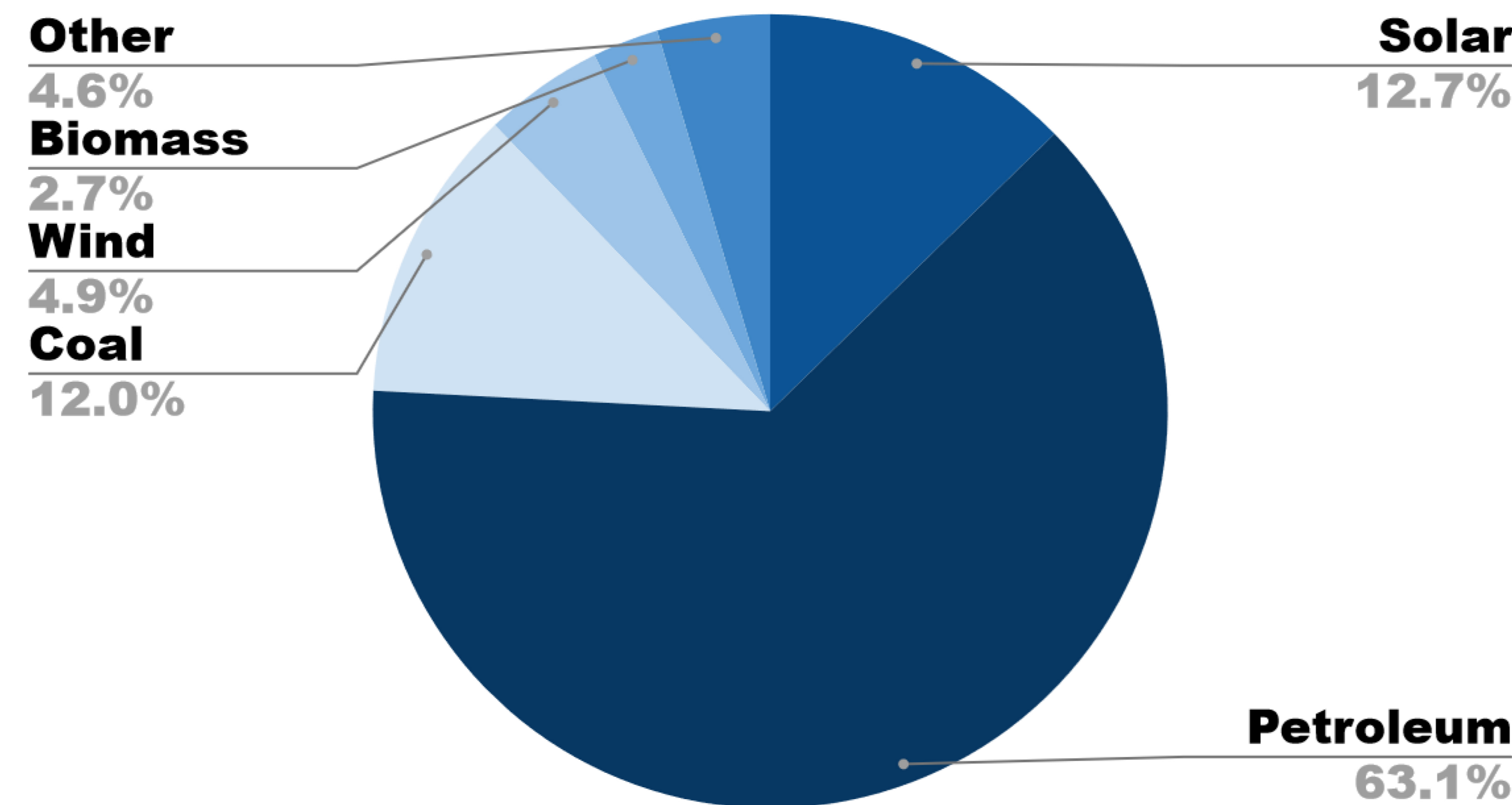


Methods

By assessing research done by professionals in their respective fields we identified pros and cons of each energy source. Such as implementation, potential output, and cost.

Through this assessment we narrowed our list of possible solutions and continued to do further research into their impact on Oahu.

Hawaii Electricity Production by Source(2019)



Results

Pros

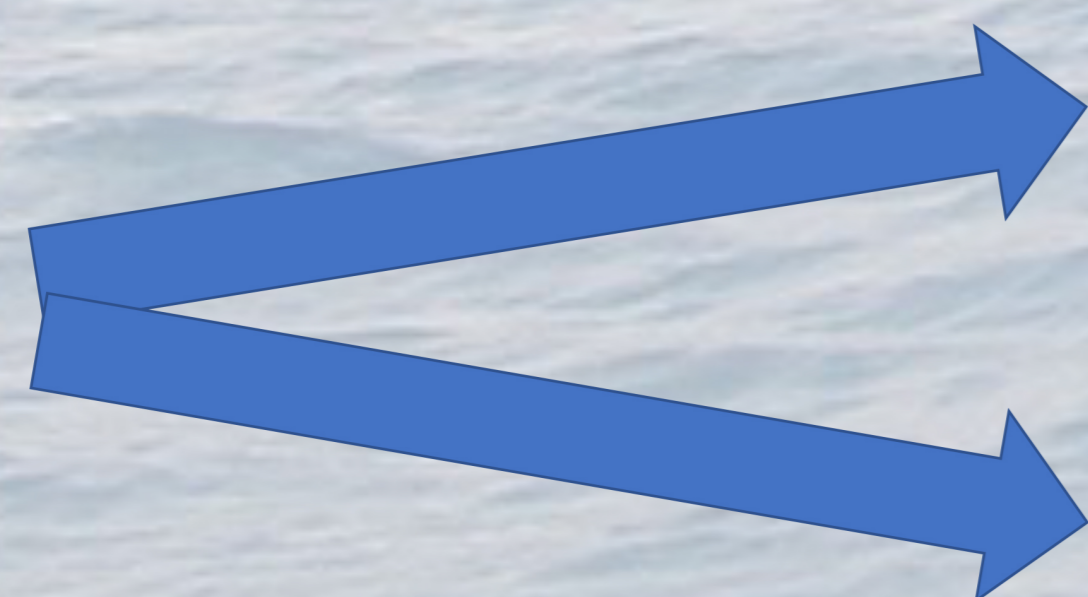
- Solar**
 - High solar radiation
 - Can be built on existing structures
 - Consistent weather
- Biomass**
 - Creates jobs
 - Substitute for Petroleum
 - Utilizes existing waste
- Wind**
 - High amount of wind
 - Consistent weather

Cons

- Solar**
 - Requires sunlight
 - Takes up space (on Rooftops)
 - Can be expensive
- Biomass**
 - Harvesting of takes up space
 - Not full substitute for petroleum
- Wind**
 - Expensive to install
 - Disrupts Ecosystem
 - Takes up space (Environment)

Solution

Government Tax Incentive for Residents and Businesses



Solar Farm



Rooftop Solar

Sources

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