Who Discovered Electricity?

Abstract

Electricity was neither a person's invention, nor it was a day's job; It was invented by a sequence of inventors, who test, try and fail, these people are:

- **1600:** William Gilbert coins the term "electric" to describe the force of attraction caused by friction.
- **1660:** Otto von Guericke builds the first electrical machine to generate static electricity.
- **1729:** Stephen Gray discovers that electrical charge can be transferred through certain materials, distinguishing between conductors and insulators.
- **1745:** Peter van Musschenbroek invents the Leiden jar, an early capacitor.
- **1752:** Benjamin Franklin demonstrates that lightning is a form of electricity through his kite experiment and introduces the concepts of positive and negative charge.

Development of generation and practical use

- **1820s-1830s:** Michael Faraday discovers electromagnetic induction, the principle of generating electricity through the movement of a wire loop near a magnet, which is still the basis for modern generators.
- **1879:** Thomas Edison develops the first long-lasting, practical incandescent light bulb.
- **1882: Thomas** Edison opens the first central power station in New York City, generating direct current (DC) power for public lighting.
- **Late 1800s:** Nikola Tesla pioneers alternating current (AC), which is more efficient for long-distance transmission. This makes large-scale, centralized power generation and distribution economically viable, bringing electricity into homes and factories.

Introduction

My topic is about the invention and the history behind it electricity. Electricity is one of the daily needs. The invention of electricity led the evolution of the Second Industrial Revolution, where urban development could develop faster and requires less laborers. Nowadays, technology, future space exploration and asteroid mining will enable us to expand our colonization and make life easier for us.

Because of the inventors that dedicated their work and life to invent electricity, we should not forget them. Because of their noble work, they shaped our future and made our life became easier.

But now, we should find effective and clean energy to sustain human-kind. We should move towards the future, while remembering the contributors to the great invention. We should use more renewable energy like hydro, solar, wind instead of fossil fuels, gases and harmful energies.

Literature Review

The invention of electricity not only laid as a foundation for us now, it will be useful in the future. The invention of electricity was driven by curiosity and motivated by inventors seeking economic incentives, social impact, and a new source of energy for people during that time.

Methodology

The information gathered from
Dr.Binocs (youtube channel),
SSRN (Google Scholar),
Pubs.rsg (Google Scholar)

Findings and Discussion

Findings

The invention of electricity wasn't a person or a day work; But a process of time that is longer than two centuries. This is how inventor don't give up, and continue testing, trying out and recording answers; Converting theories into real experiments eventually a success.

Conclusion

We should thank the past; But now is the future, we should find we to use our facilities instead of mining earths core, or even harness the energy from the sun, like a Dyson Sphere.

References

Who Discovered Electricity? | Greatest Discovery of All Time | Benjamin Fr...
History of Electricity
Towards an electricity-powered world