

Calculus of more economical wire according to electrical losses

Introduction: When you choose an electrical wire to any load (a house, a building and so on), you need to take into account the percentage of losses you have, when the wire transports energy. If the gauge is bigger you have less losses, but a bigger gauge is more expensive. The goal of the project is to state the time to recover investment when you buy a wire with a bigger gauge. In addition the website should have the option to buy wire of any gauge

Benefits:

- More options to make a decision when you buy an electrical wire
- Savings in the long term

Features:

- The website should show one main option to buy by default. Then the user can choose other options to save money
- It will show updating of prices both of energy and wires
- The results it will suggest different options of saving money in the long term

Similar websites on the market:

- <https://www.centelsa.com/>: It shows prices, but doesn't have options to calculate savings when you choose a bigger gauge.
- <http://www.felixtorresycia.com/>: A complete list of prices without the option to calculate savings when you buy a bigger gauge.

References:

- <https://electricatoz.com/benefits-of-bigger-wire-for-your-power-bill-and-home/>
- <https://www.copper.org/environment/sustainable-energy/energy-efficiency/education/archive/onesizeup.html>