

The Problem

1.6 Billion

People live without electricity

7%

Of South Sudan's population have access to electricity

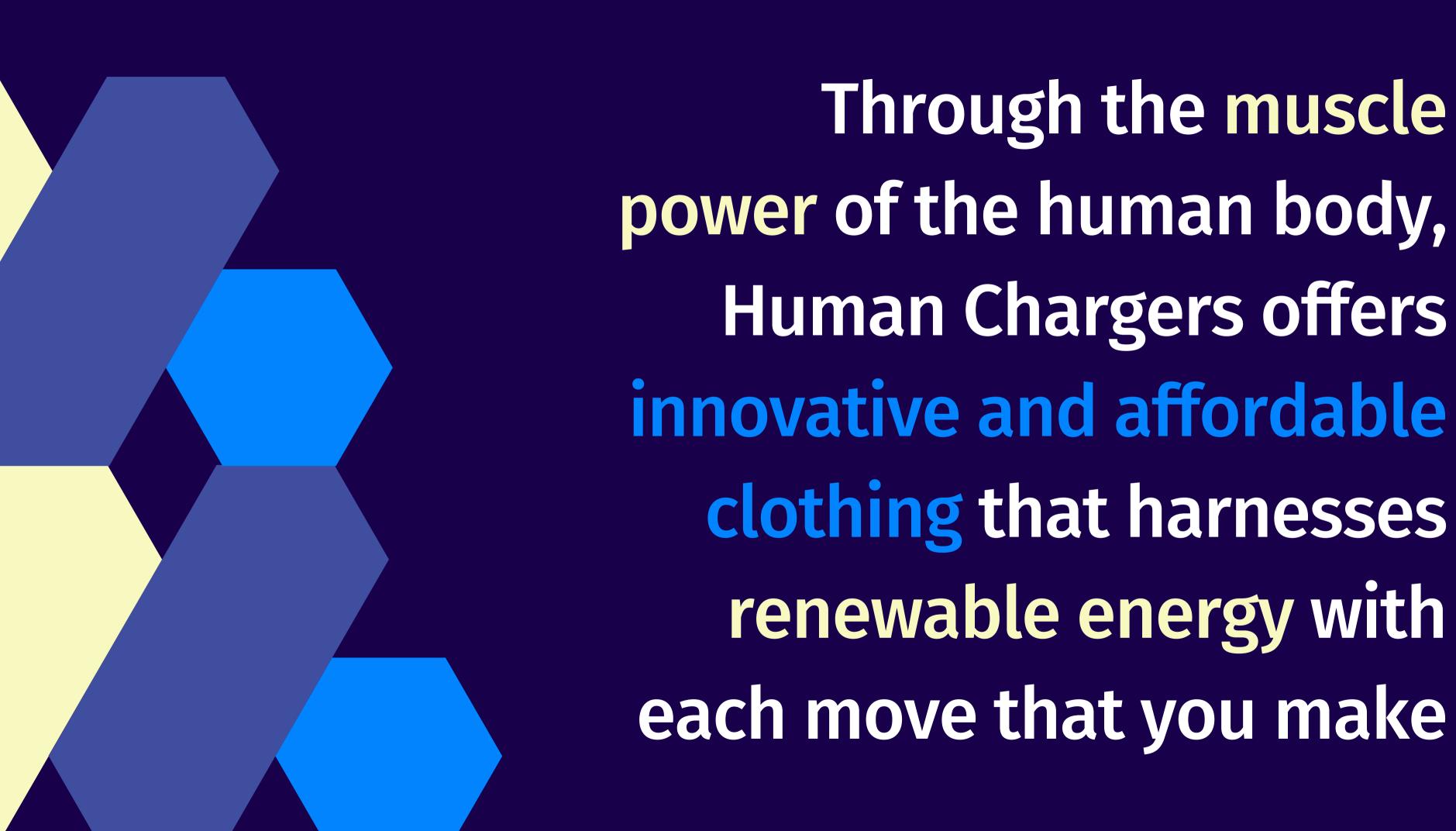
1.5 Million

People die each year from air pollution

89%

Of global CO2 emissions come from the fossil fuels industry





With the usage of our newfound eco-friendly energy source, electromyography, Human Chargers will allow humans to progress into a new realm of sustainable energy

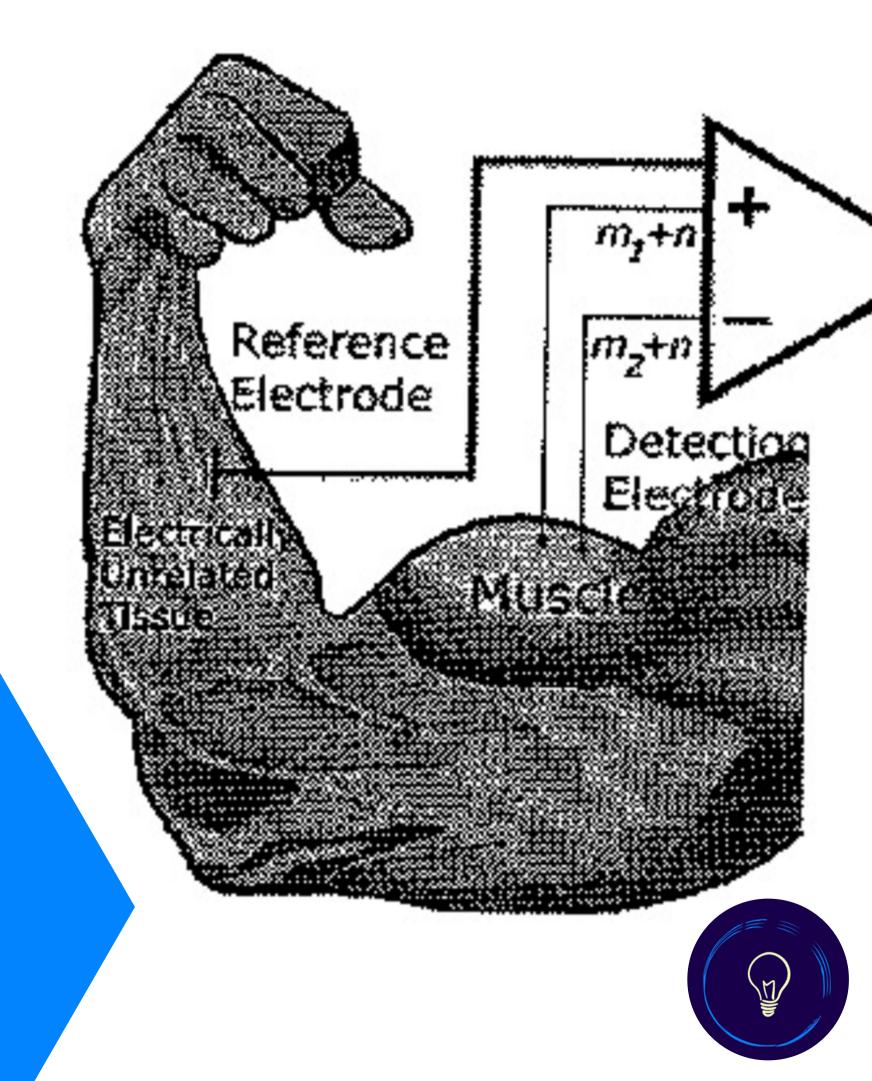


sources

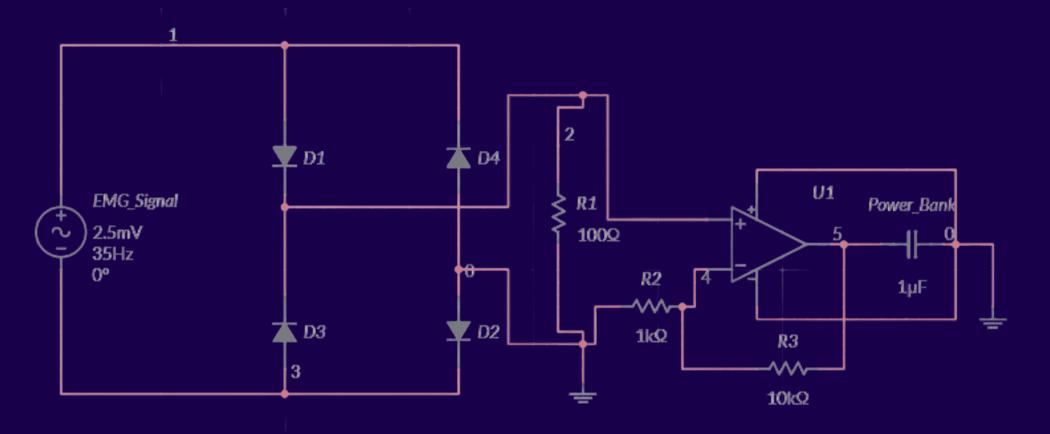
How does electromyography (EMG) work?

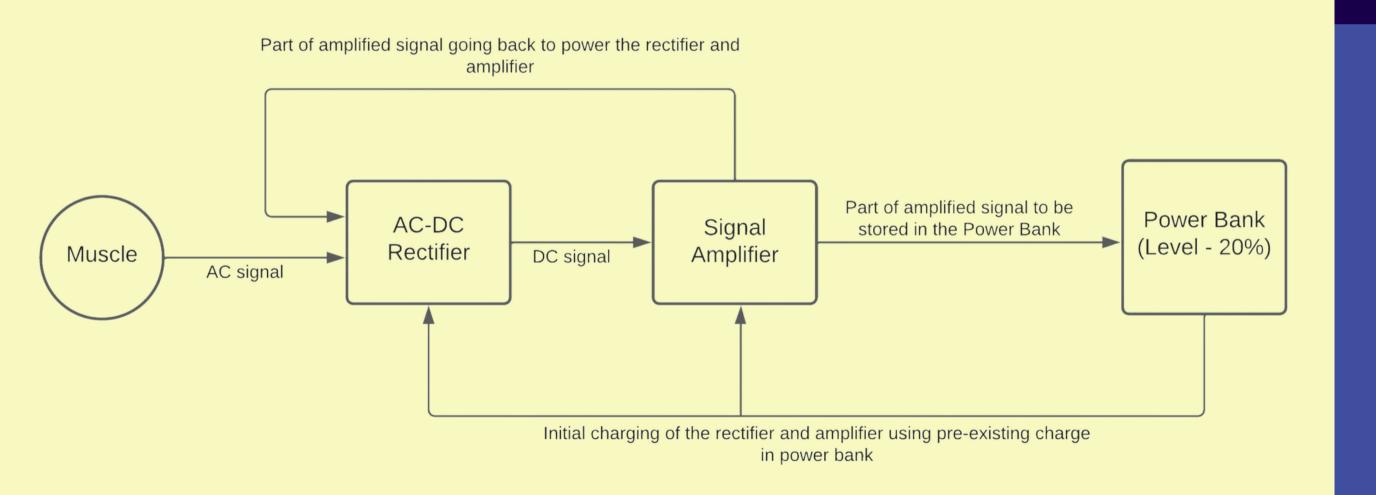
Electricity
generated
through muscle
activation

(Membrane Current) * (Resistance)



Circuit Design







Product Design



Electrodes in clothing

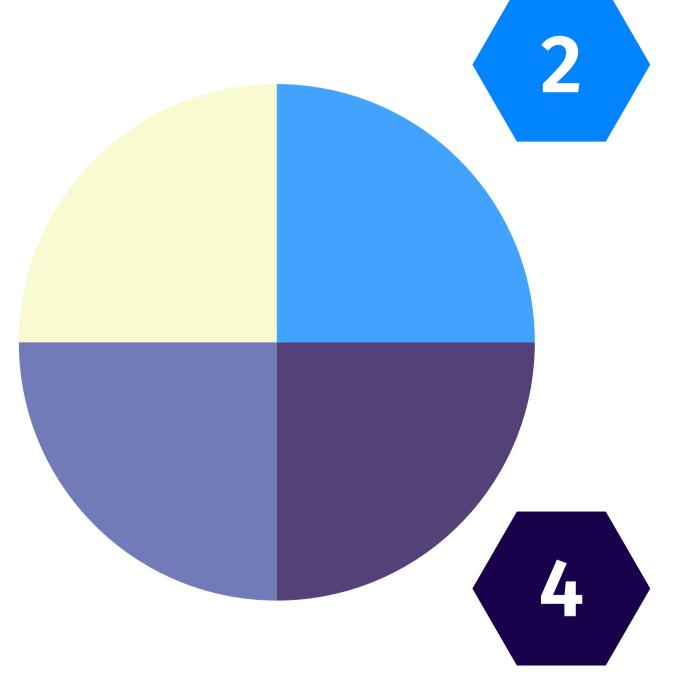


Potential Energy Sources

1

EMG

The generated electricity through the depolarization of muscles.



Piezoelectricity

Ability of certain materials to generate an electric charge in response to applied mechanical stress.

3

Luminescent Solar Concentrators (LSC)

Capture diffuse ambient light and transmit its energy to a solar cell, which then converts light into electrical energy.

Thermoelectricity

Converts temperature differences into electrical voltage.

Further Markets To Explore





Hikers



Athletes



Environment Conscious People

Conclusions

Accessible	Renewable
Eco-Friendly	Innovative
	••••••••••
Sustainable	Versitile
	•••••••••

Numerous Applications





Questions?

