

# Paraffin-2050

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# (2050)

By 2050 if there is not enough done for the environment there will be:

- 1,126,000 premature mortalities due to air quality
- more than half of the global population (57%) will live in areas that suffer water scarcity at least one month each year
- 250,000 more deaths globally each year, mainly from malnutrition, malaria, diarrhea, and heat stress
- Extreme hot weather could significantly lower the efficiency of the power systems around the world
- food production will be inadequate to feed the growing global population because of one-fifth decline in crop yields.
- People will likely be forced to work indoors or to take frequent breaks to prevent heatstroke, while extreme hot weather



# (Paraffin-Textile)

- Textile engineers have developed a fabric woven out of ultra-fine nano-threads that combine to produce a fabric that can respond to changing temperatures to heat up and cool down its wearer depending on the need
- The material can store and release large amounts of heat
- The textile can harness thermal energy from the body holding a charge
- Even if the material is cut and the electrical charge is interrupted it can be easily sewn together to return the charge
- In 2050 the textile can adapt to the extreme climate and allow people to lengthen the amount of time worn can be outside.
- It doesn't require any external power sources

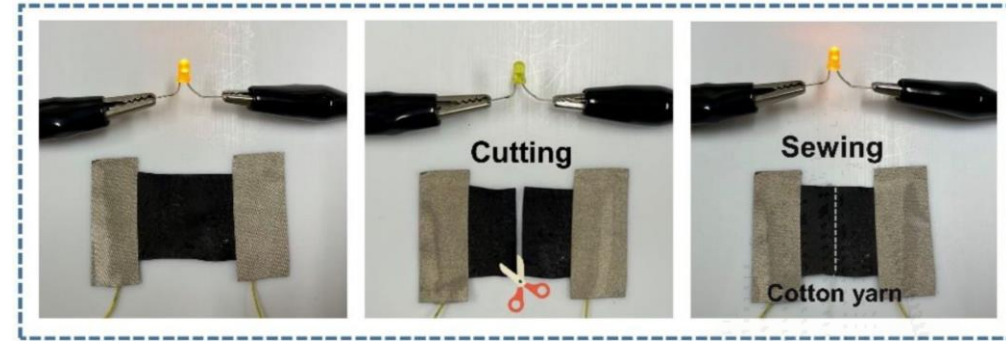


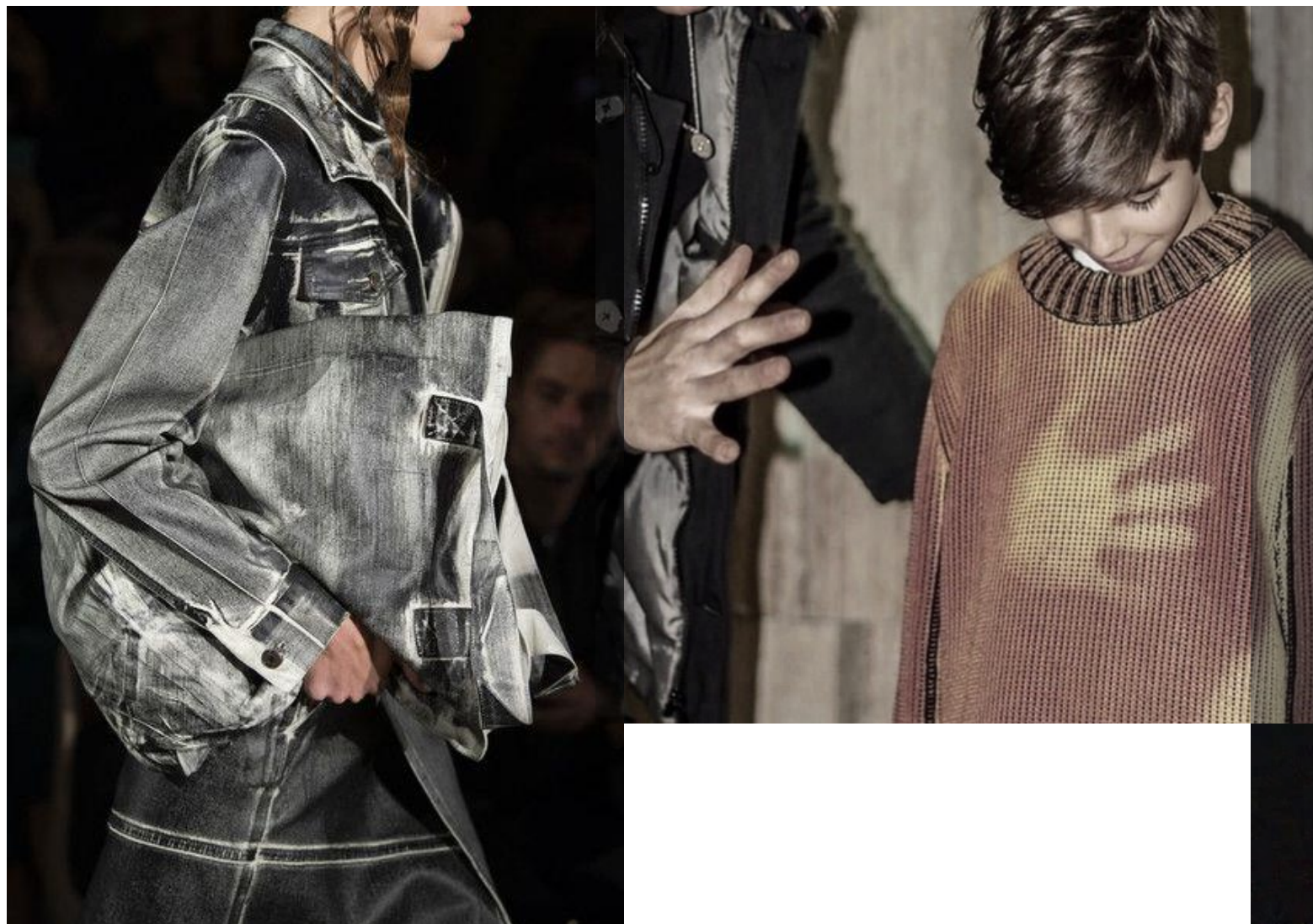
Figure S6. Conductivity healing by sewing.



- What- Create new adaptive clothing
- Why- Climate change will impact people's way of life and thus clothing will need to solve new problems
- How- Designing clothing that is reactive to the new environment and harnesses the bodies energy



# (Thermal Color Change)



# (Military Utility)

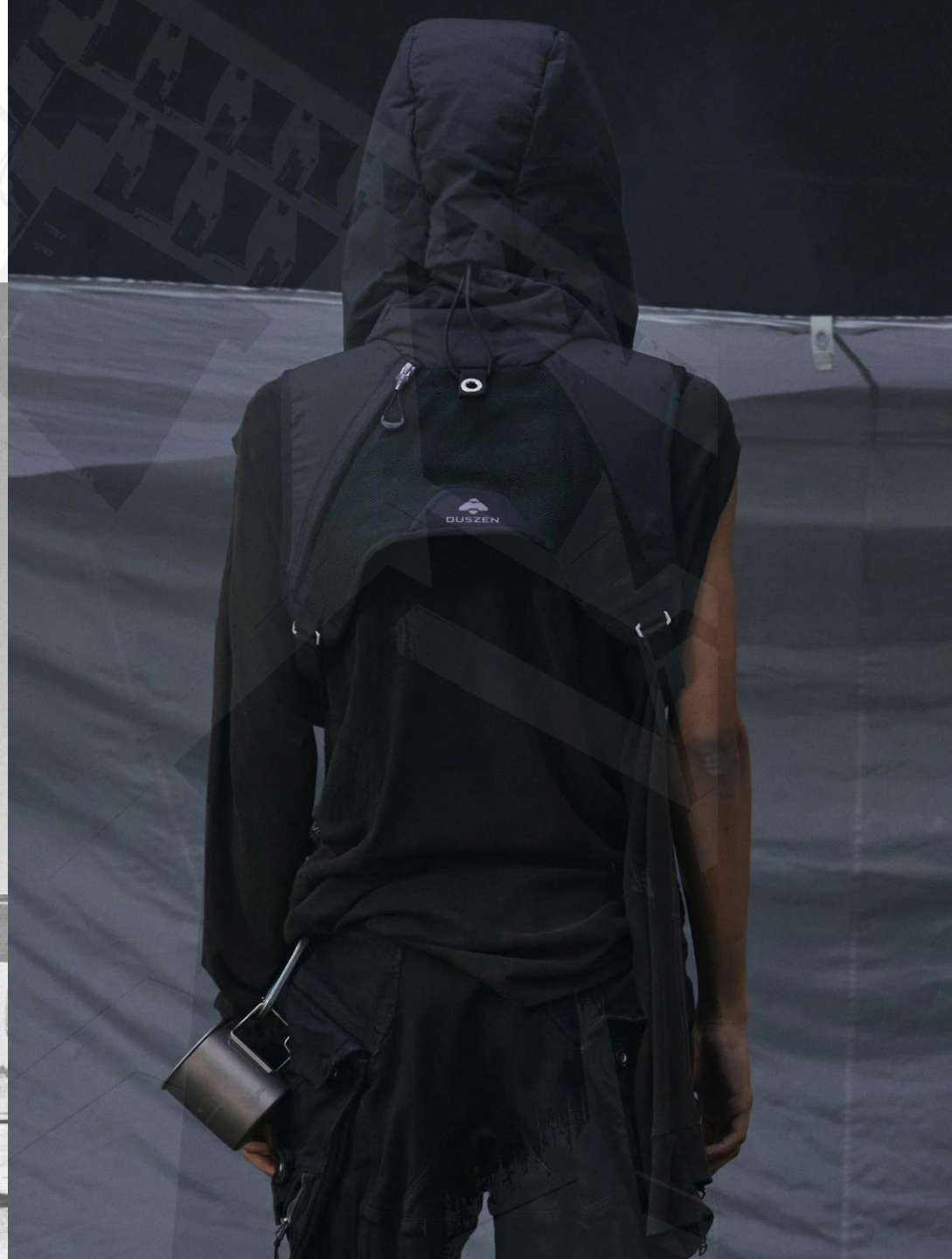


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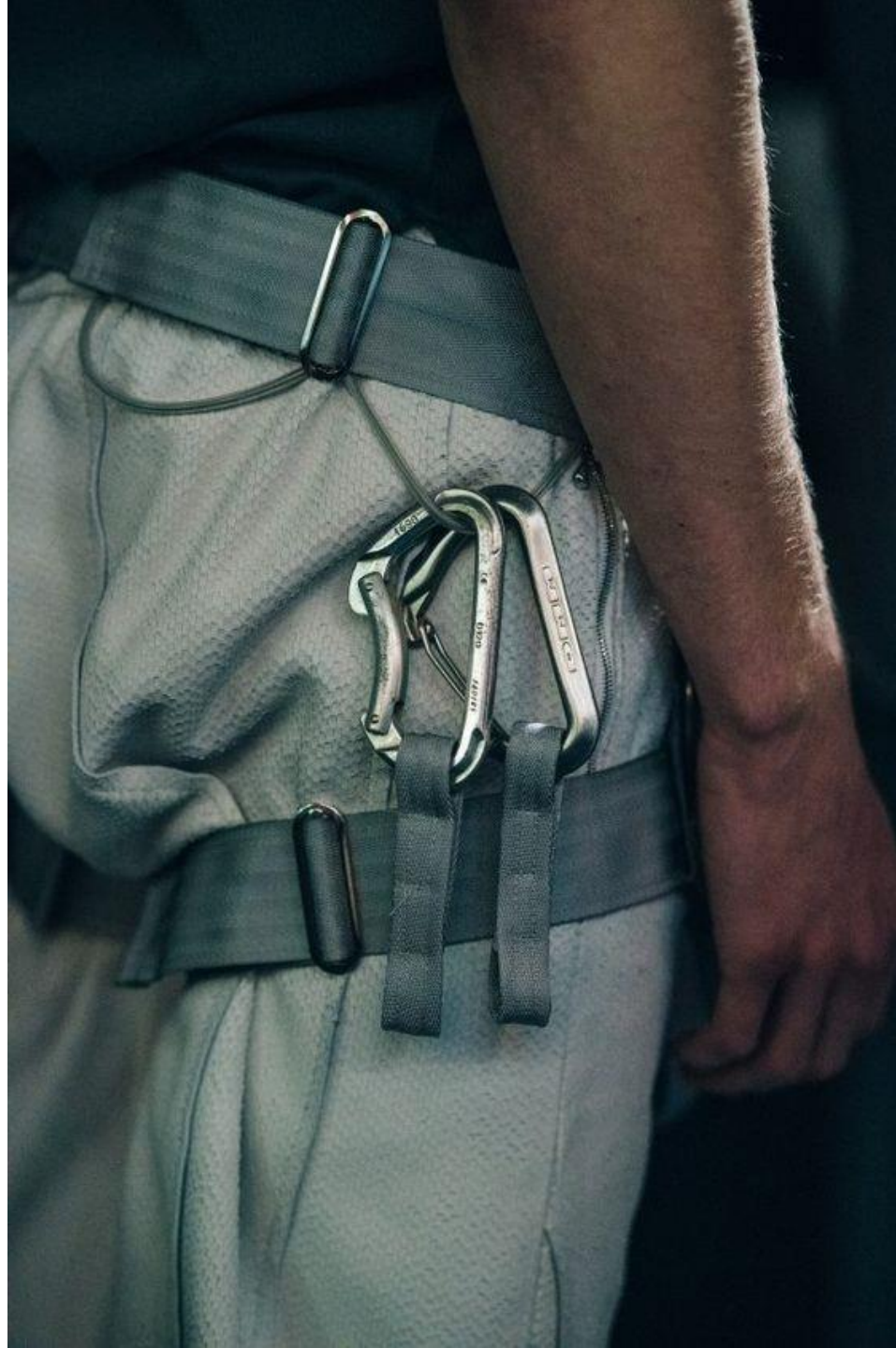
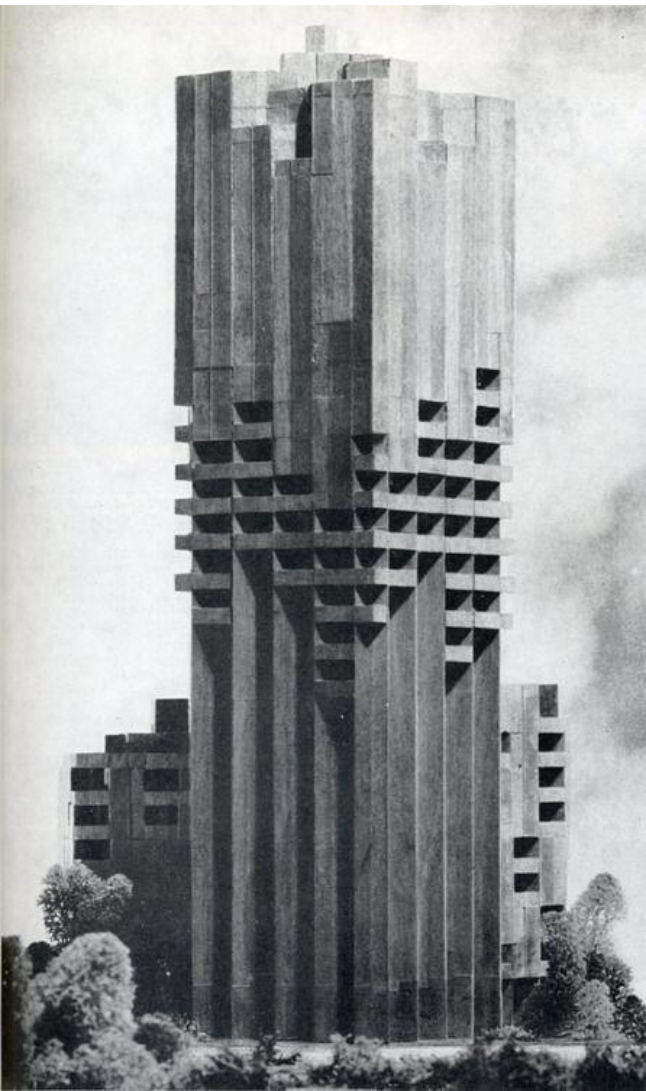


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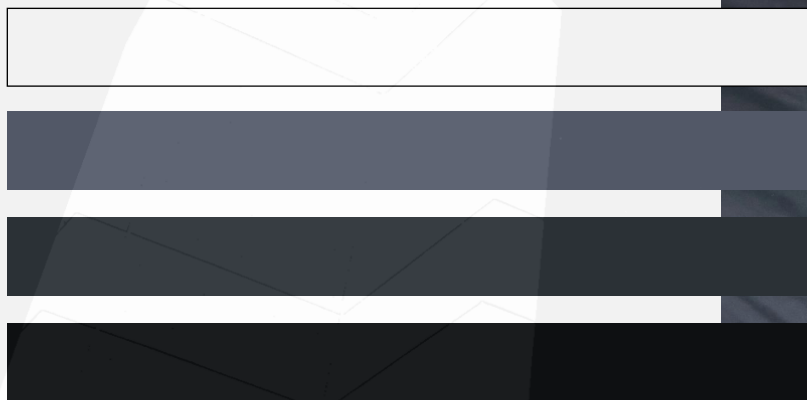
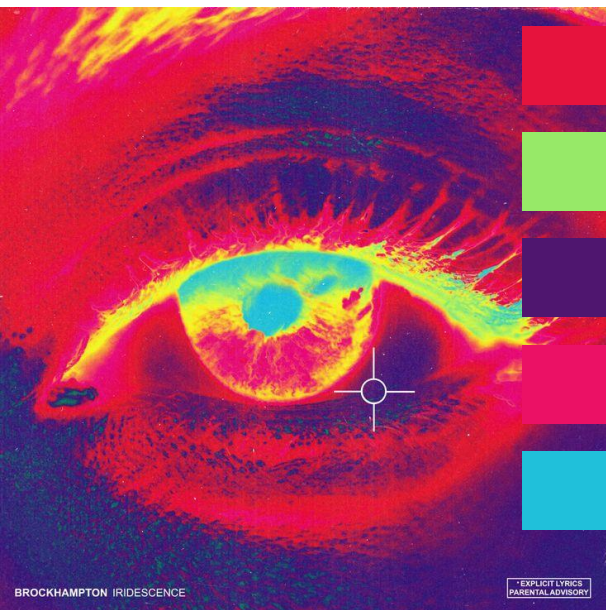
# (Brutal Structures)



# (Modern Function)



# Color



# Fabric



DUSZENUPLINK/GAEA/GRNSA



LOWER PLANETARY 2.2





# Sources

- <https://www.sciencedaily.com/releases/2022/10/221011105806.htm>
- <https://www.platinum-heritage.com/blog/7-ways-bedouins-can-teach-us-to-stay-cool-in-summer-and-1-from-us/#:~:text=After%20conducting%20numerous%20experiments%20including,stay%20cool%20under%20the%20sun.>
- <https://www.fidelity.com.sg/beginners/esg-investing/climate-change-in-2050#:~:text=By%202050%2C%20outdoor%20air%20pollution,of%20environmentally%20related%20deaths%20worldwide.&text=A%20study%20showed%20that%20with,year%20due%20to%20ozone8.>
- <https://pubs.acs.org/doi/pdf/10.1021/acsnano.2c04971#>