





SERVE THE PLANET 2018

Module 2: Study Circle Part 1

Energy Use in Daily Life: Clothing



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Outline

- Why do we wear clothes?
- Where do the fibres that make up our clothes come from?
- Lifecycle of the clothes that we wear
- Energy consumption and environmental impact of clothes
- Why do we buy more clothes than we need?
- What changes can one make?

The purpose of this study circle is to understand the impact of our clothes on the planet and how we can be more responsible to make the planet more sustainable.

Why do we wear clothes?



What is the source of clothing fibres?

Natural Fibres



Mohair - Angora goats/hairs



Cotton - cotton plant



Linen - flax plant



Silk - silkworms







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Leather - animal hide

Wool - sheep

Cashmere cashmere goats Jute - jute plant

What is the source of clothing fibres? contd.

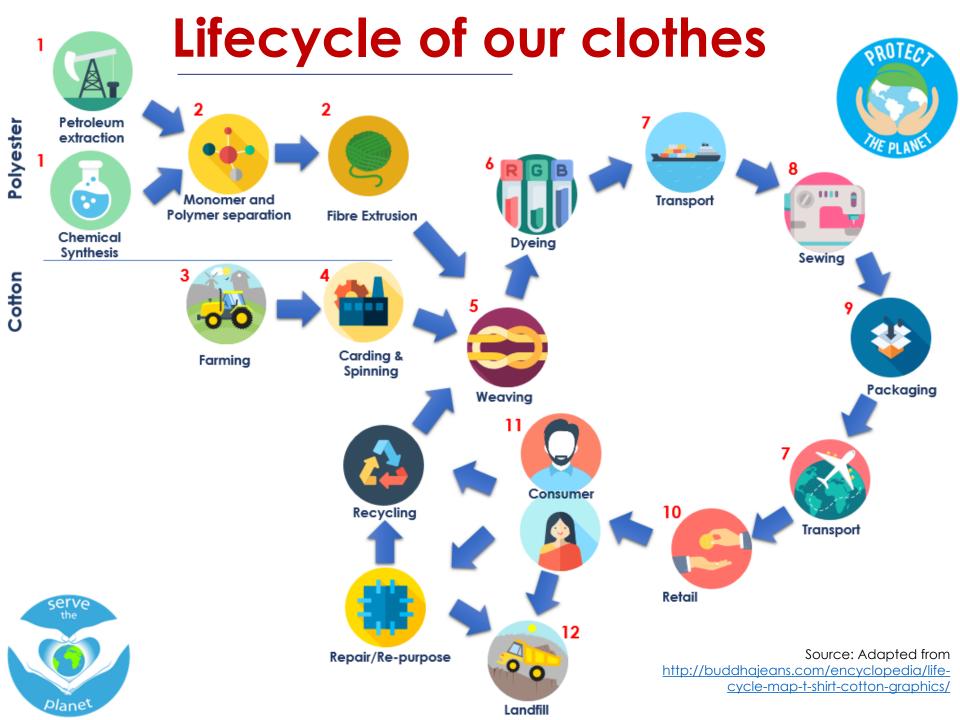




- **Synthetic Fibres**
 - → Rayon/ Viscose- Modified fibres from soy/ sugarcane/bamboo plants
 - → Polyester
 - → Nylon
 - \rightarrow Spandex
 - → Polypropylene

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- → Polyethylene
- → Vinyl



Energy & Resources Use in Clothing and the Environmental Impact



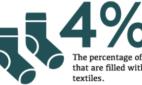
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https://www.youtube.com/watch?v=NXTIfcfzSnE Video duration – 3 mins 43 secs

Environmental Impact of Clothes



POUNDS The amount of clothing that the average American discards each year, 85% of which ends up in landfills or incinerators.



The percentage of global landfills that are filled with clothing and







The percentage of global water used for growing cotton.

9% The estimated percentage of used

clothing that is recyclable.



treatment.

The estimated number of people who work in

the fashion industry worldwide.

8.00

The estimated number of synthetic chemicals that are used worldwide to turn raw materials into textiles.

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Source: Conscious Company Media

Why do we buy more clothes than we need?



What changes can we make?

Refuse





Reducing Energy Impact of Clothes

Cultivation or extraction of natural resources for production of fabrics, manufacturing, distribution and disposal - all require energy

REFUSE	REDUCE	REUSE	REPURPOSE	RECYCLE
Do I need it? Can I afford it? Will I use it? Is it worth it? Will it last longer? Can I borrow	Cut down your needs Donate	Wear handed down clothes Donate clothes to a charity that can redistribute it	Repair, alter into different style or modify it to fit a different use This video is an example: <u>https://www.yout</u> <u>ube.com/watch?</u> <u>v=DesGx5lpMWQ</u> (Duration 1:24 minutes)	Recycle what can't be reused or repurposed - it diminishes the need for mining/ extraction of natural resources and energy use
it instead?				

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Recap

Why do we wear clothes?

Where do the fibres that make up our clothes come from?

- Lifecycle of the clothes that we wear
- Energy consumption and environmental impact of clothes

- Why do we buy more clothes than we need?
- What changes can one make?

In PART 2 of Module 2 study circle series, we will cover: Energy & Food

- To what extent Energy is used in the 'food sector'
- How does this affect climate change and pollution, as a result of energy use?
- Are renewable sources the answer?
- What can we do daily to reduce our energy footprint in relation to food, and serve Mother Earth?

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