Climate Change & Environmental Policies

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Climate Change

Human and Environmental Crisis of the 21st Century

“Ongoing trend of changes in the Earth’s weather conditions”
- Human activities
- Land transformation
Climate Change Effects

- Warmer temperatures
- Drier soils
- Weather extremes
- Sea level rise

Temperature increase
1.4°C – 5.8°C
Climate change in Africa

Geographical location
It is an already warm and dry continent, projected to become warmer and drier

Socioeconomic development
- High unemployment
- Poor standard of education
- Low income

Freshwater availability
- Decreased rainfall
- Increased evaporation

Lack of coping mechanisms
- Intensity and duration of heat waves
- Severe storms
Argan oil

Argan oil prices have skyrocketed in the last 9 months.

Currently demand exceeds supply.

The Argan tree is endemic to Morocco and the oil is derived from the seed of the Argan tree fruit.

Argan oil has been used traditionally for decades and is a popular cosmetic ingredient for the hair and skin.

Although the Argan tree is hardy and drought-resistant, there is a large shortage of fruits.

Morocco is currently experiencing severe drought conditions due to climate change.
Planetary Boundaries
A safe operating space for humanity

- Climate change
- Biosphere integrity
- E/MSY
- STRATOSPHERIC OZONE DEPLETION
- BIOME-BIOGEOCHEMICAL FLOWS
- FRESHWATER USE
- OCEAN ACIDIFICATION
- NOVEL ENTITIES
- ATMOSPHERIC AEROSOL LOADING
- LAND-SYSTEM CHANGE
- Novelties
- Safe operating space

- Beyond zone of uncertainty (high risk)
- In zone of uncertainty (increasing risk)
- Before boundary (safe)
- Boundary not yet quantified
Novel entities

What is a novel entity?
“new substances, new forms of existing substances and modified life forms”, including “chemicals and other new types of engineered materials or organisms not previously known to the Earth system as well as naturally occurring elements (for example, heavy metals) mobilized by anthropogenic activities”.

The largest contributing novel entity is the production and pollution of plastics.

The anthropogenic introduction of novel entities to the environment is of concern.
THERE IS NO PLANET B.
SUSTAINABLE DEVELOPMENT
Global Goals
3 aspects of sustainability

- Economic
  - 8. Decent work and economic growth

- Social
  - 3. Good health and well-being
  - 10. Reduced inequality
  - 12. Responsible consumption and production

- Environmental
  - 11. Sustainable cities and communities
  - 13. Climate action
Consumers

Increased consumer awareness
Social, economic and environmental impacts.

Sustainability no longer a trend
Now an integral part of the essential and vegetable oils industry

Supply chains
Raw materials

Transparency
In terms of
1. how the ingredients are made
2. What processes are followed
3. Who is involved

More informed
1. Climate change
2. Fair working conditions
3. Ethical sourcing

Drivers of the industry
Greener approach
OUR GREEN CONCEPT
PEOPLE & PLANET FIRST
THE WAY WE DO

NATURE
WORK
COMMUNITY
BIODIVERSITY
PEOPLE
ETHICS

OUR COMMITMENT TO SUSTAINABLE DEVELOPMENT GOALS

ONE SKIN, ONE LIFE, ONE PLANET!
Global Trends

North America
- Demand for natural and organic ingredients

Europe
- Natural and organic ingredients on the rise
- Global market for organic cosmetics will grow by 8-10%

South Africa
- 3rd most biodiverse country in the world
- Valued at approximately US$ 22 billion and US$ 30 billion respectively.
Consumer Trends

Packaging
- Sustainable packaging
- No secondary or tertiary packaging

Zero waste
- Plastic free
- Cradle to grave

Regionality
- Origin important – story behind it
- Shared purpose – resonates with consumers

Carbon neutral
- Climate neutral ingredients
CELLACTIVE® - Carbon Neutral

Essential Cell Boost Factor

The microalga Chlorella vulgaris and the white lupin are well known sources of valuable nutritional building blocks such as amino acids, proteins and carbohydrates. Both superfoods are combined together in CELLACTIVE®, the carbon-neutral essential cell boost factor for skin and hair. The active ingredient promotes the integrity of the integumentary system at two levels:

- in the epidermis: it stimulates the production of adhesion proteins in order to improve cellular cohesion
- it triggers the production of multiple extracellular matrix components in the dermis and helps skin to quickly regain its firmness and elasticity

Thanks to a dedicated carbon footprint calculation, CELLACTIVE® paves the way for a new generation of climate-neutral cosmetic active ingredients with excellent transparency across their whole supply chain while assumption of social responsibility compensates for any unavoidable emissions.
Environmental policies

In addition to consumer demands, companies have incorporated numerous environmental policies and plans into their business models to differentiate them from competitors.

- **REACH registration**: Registration, Evaluation, Authorisation and Restriction of Chemicals – particularly for the essential oils industry.
- **CITIES compliance**: Regulates the trade in endangered plants and plant products collected in the wild.
- **CSR and Sustainability**: Sustainable sourcing, Ethical sourcing, Social and environmental responsibility.
- **Fair Trade**: Involved audits of: Ingredients, processes, production, storage of raw materials, packaging, labelling, use of energy resources and waste management to ensure the quality of the final product.
- **Organic certification**: Empowerment and autonomy of producers.
The way forward

- In conclusion, it is evident that climate change is having disastrous impacts across the globe which are projected to worsen in the coming years.
- Consumers have become conscious of the global effects and are demanding a greener approach to biodiversity-based business that are in line with the global, national, and local policies.
- This is evident in the trends of the essential and vegetable oils industry to integrate social, economic, and environmental aspects in the commercialisation of natural ingredients.
- Many of these trends echo the shift towards a more sustainable future and contribute largely to combating climate change. Even though the implementation is not always as smooth as we would like, we need to continue to work together to achieve a paradigm shift that is beneficial for the planet, people and environment.
THANK YOU