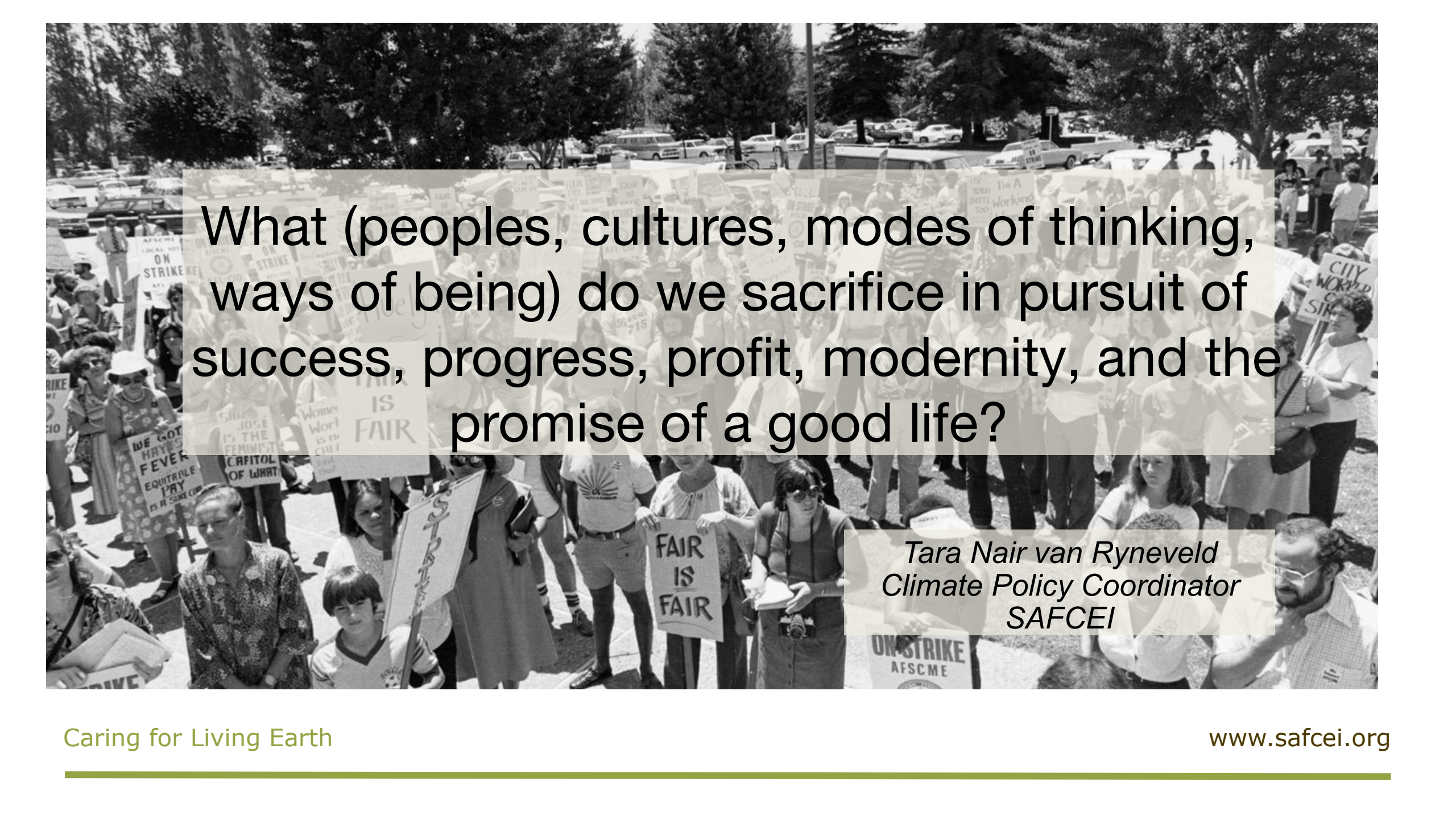


Introduction to a Just Transition

09 October 2024

Tara Nair van Ryneveld



What (peoples, cultures, modes of thinking, ways of being) do we sacrifice in pursuit of success, progress, profit, modernity, and the promise of a good life?

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An Introduction to the “Just Transition”

The Just ENERGY Transition

Transitioning our energy system away from fossil fuels, but in a just manner

What is Climate Change and how does it connect to energy?

Defining Climate Change

Weather vs Climate vs Climate Change?

Weather refers to short term changes (over a day)

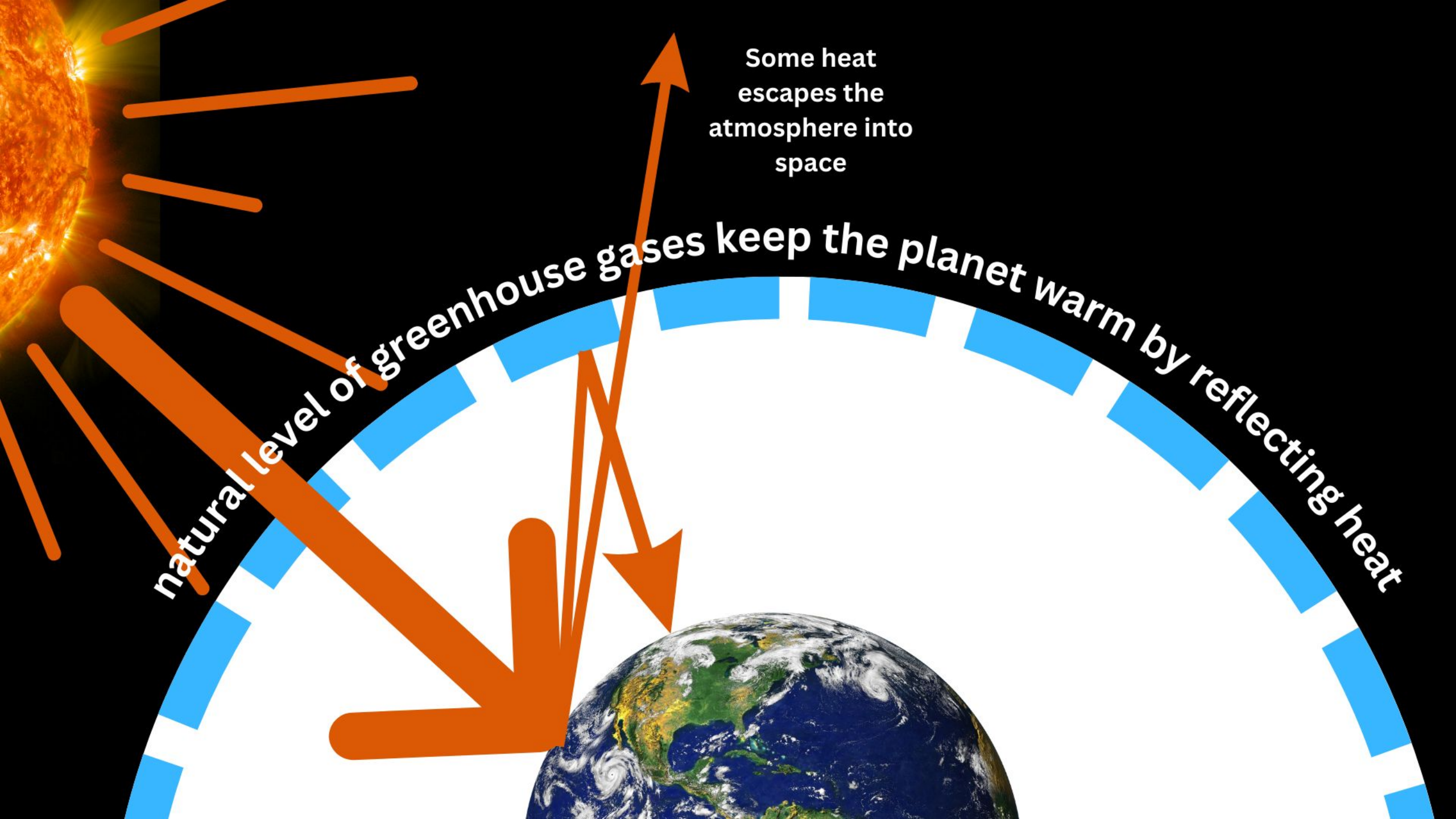
Climate refers to long term patterns in weather (eg rainfall, temperatures)

Climate change refers to long term changes to these weather patterns, that affect our lives on a daily basis. Climate scientists study and measure these changes.

The Green house effect

Greenhouse gases (carbon dioxide, methane, water vapour) exist in our atmosphere naturally and keep our planet warm with by trapping heat from the sun.

If there are too many of these gases in the atmosphere this traps heat causing global temperature rises.



Some heat escapes the atmosphere into space

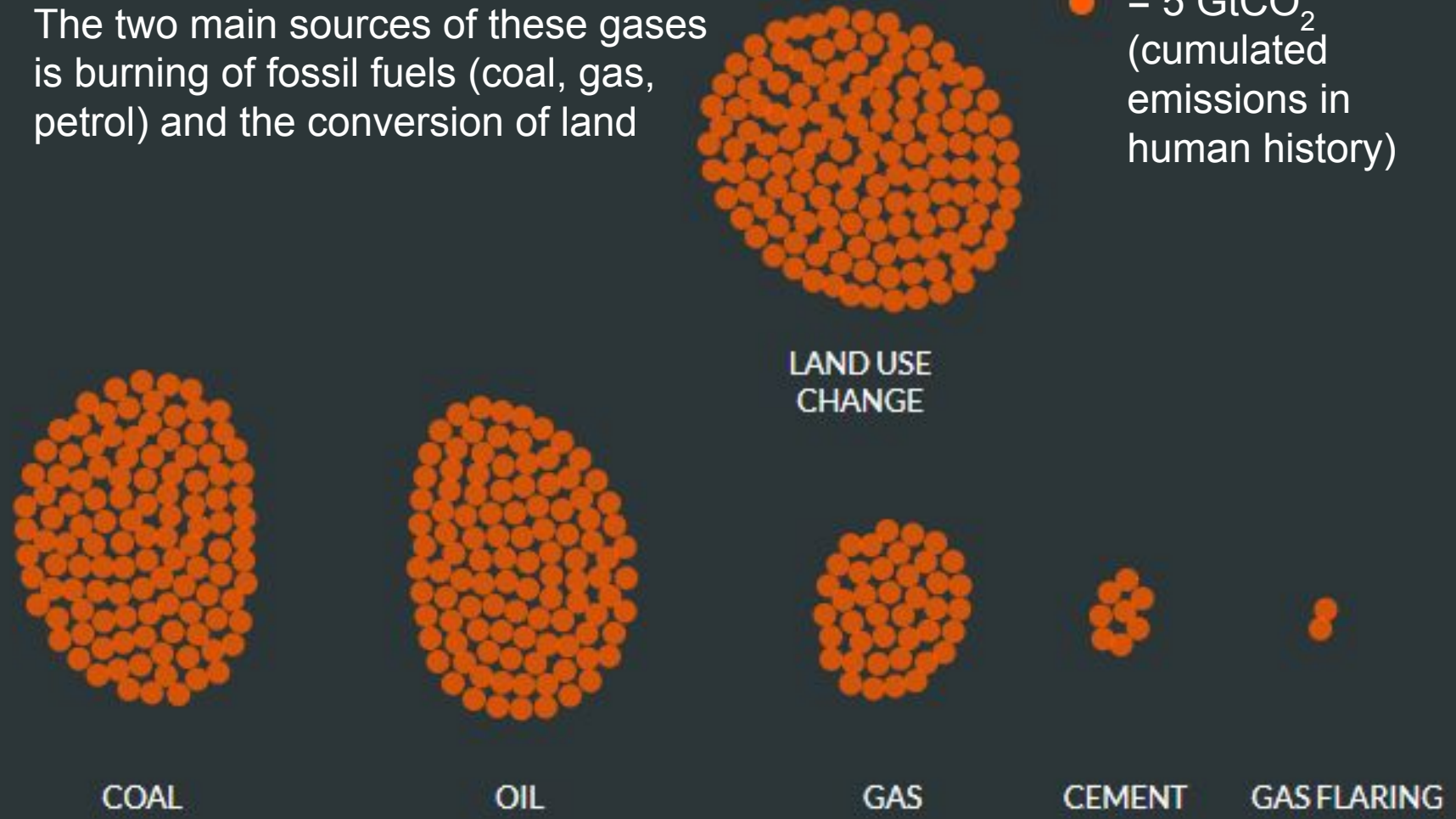
natural level of greenhouse gases keep the planet warm by reflecting heat



excessive greenhouse gases trap too much of the reflected heat causing warming

The two main sources of these gases is burning of fossil fuels (coal, gas, petrol) and the conversion of land

● = 5 GtCO₂
(cumulated emissions in human history)



Causes of climate change

The two main sources of these gases is burning of fossil fuels (coal, gas, petrol) and the conversion of land





The South African Case of climate (in)action

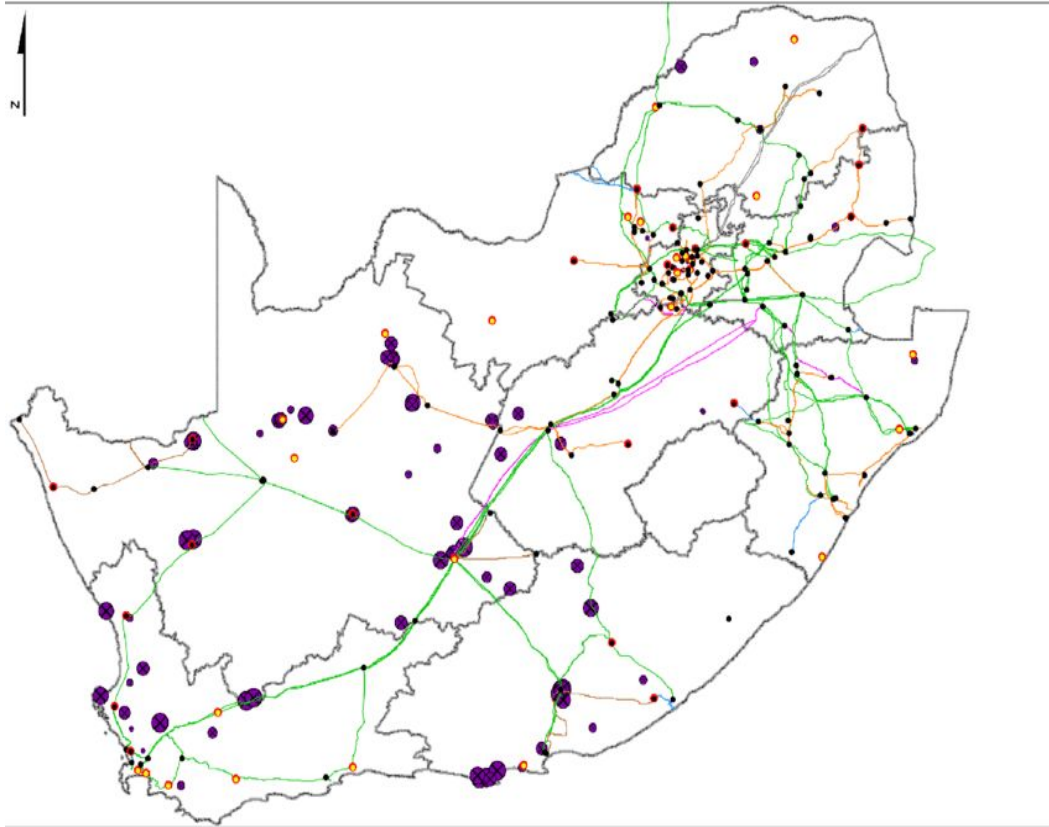
Climate Change and governing the energy transition justly

What is Energy Governance?

Governance is distinct from government, although it can include government institutions.

It refers to the broader process, practices and institutions involved in decision making, regulating, and ideally responding to, issues of common concern.

South African grid

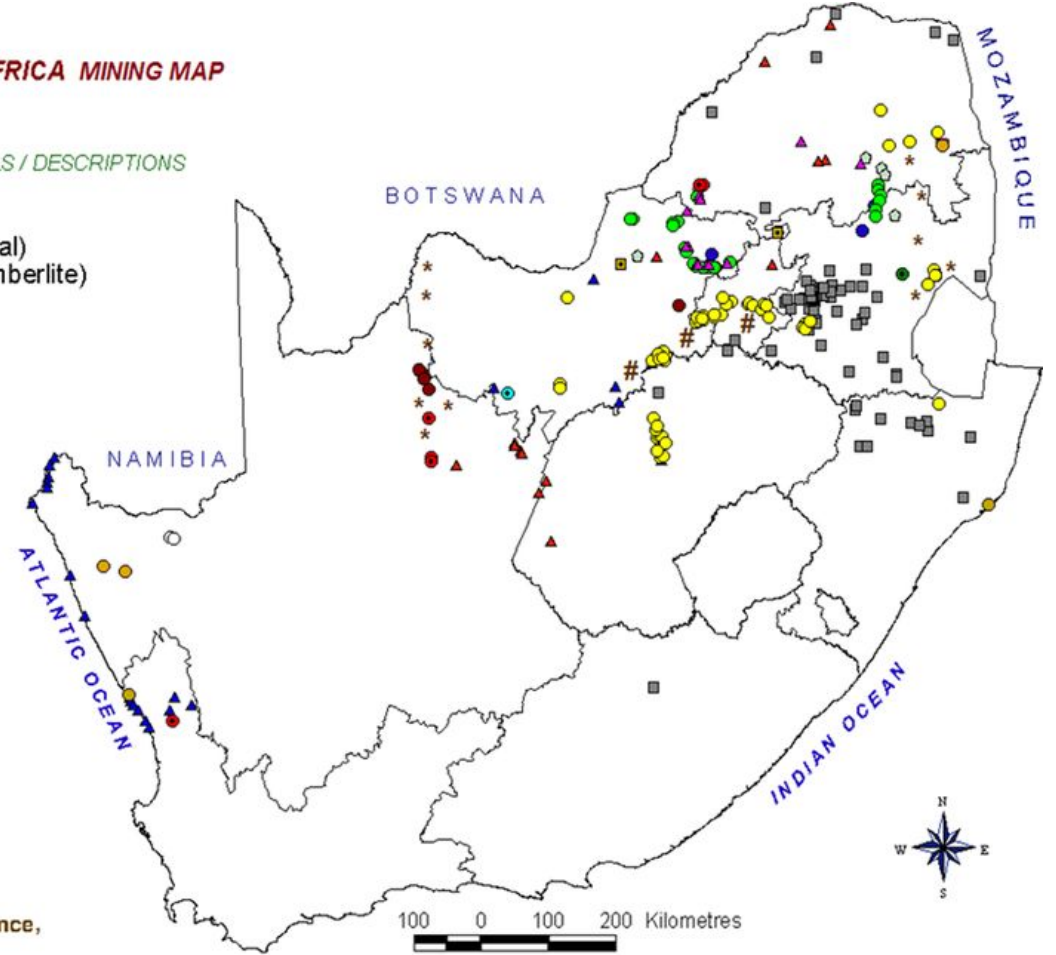


South African Mining

SOUTH AFRICA MINING MAP

COMMODITY SYMBOLS / DESCRIPTIONS

- Gold
- ▲ Platinum
- ▲ Diamond (Alluvial)
- ▲ Diamond (in Kimberlite)
- Copper
- Chrome
- Iron
- Lead
- Manganese
- Nickel
- Titanium
- Vanadium
- Zinc
- ⬢ Andalusite
- Coal
- Fluorspar
- Phosphate
- Vermiculite
- * Asbestos
- # Uranium



Source:
Council for Geoscience,
South Africa

What is Energy Democracy?

Democracy refers to public participation and ownership over decisions
Decision making should reflect the views and concerns of the public

Energy governance and decision making in the energy transition

What does energy allow for?
Why do we need an energy
transition?

Energy governance and decision making in the energy transition

Who makes the decisions on
energy?

What is a Just Transition?

Origins in labour environmentalism- unified struggles of trade unions and frontline communities

In the context of the energy transition and climate change

Contestations and inconsistency in definitions

Opportunity for a more just future

Co-option of the Just Transition

Energy transition conversations on the
African continent

Contesting/conflicting justice claims

Cop 26 Glasgow



South Africa's Just Energy Transition Partnership

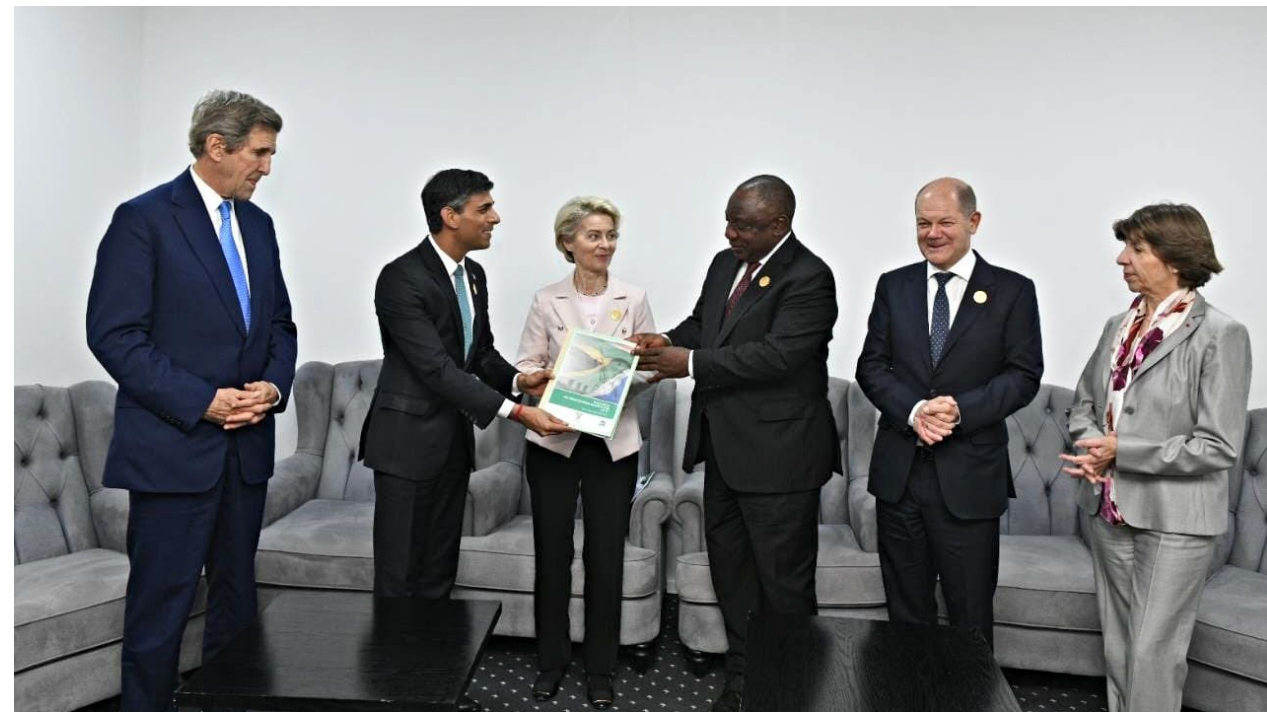
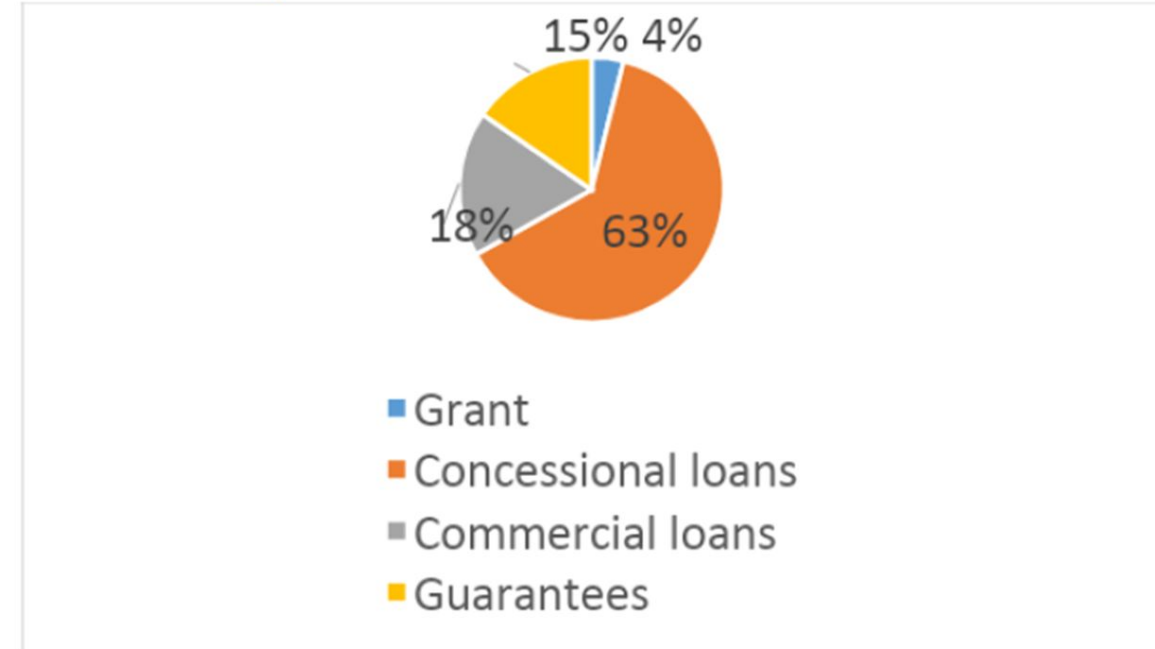


Figure 1. Breakdown of the Sources of finance



Source: The South African Presidency (2022)

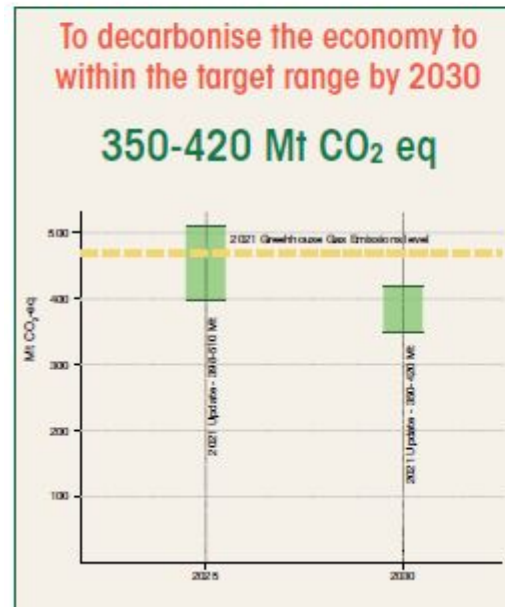
South Africa's Just Energy Transition - Investment Plan

SOUTH AFRICA'S JUST ENERGY TRANSITION INVESTMENT PLAN (JET IP) 2023-2027

Building a pathway towards a low carbon and climate resilient society

Investment plan
presented at COP 27

ZAR 1.5 trillion over
five years needed



requires initial funding of
~ ZAR 1.5 trillion
over five years 2023-2027

from multiple sources

- Developed countries
- Private sector investors
- Development Finance Institutions
- Government
- Philanthropies
- Multilateral Development Banks

in three priority sectors

-  Electricity
-  New Energy Vehicles
-  Green Hydrogen

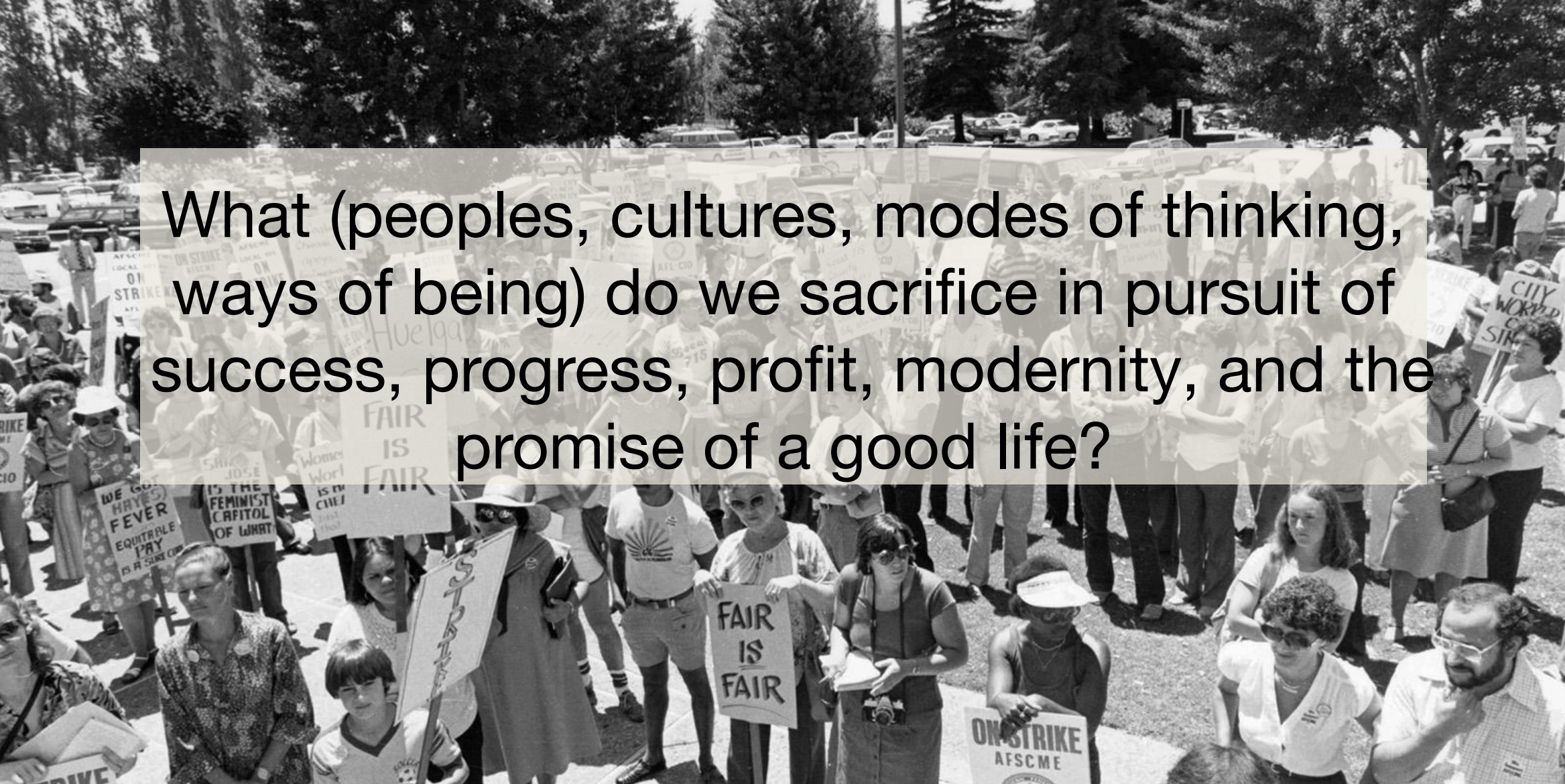
and two cross-cutting areas

-  Skills development
-  Municipalities

South Africa's Just Energy Transition - Implementation Plan

Implementation
plan at COP 28

JET IP funding requirements 2023-2027	ZAR billion	USD billion
Electricity sector	711.4	47.2
New Energy Vehicle (NEV) sector	128.1	8.5
Green Hydrogen (GH ₂) sector	319.0	21.2
Skills development	2.7	0.18
Municipal capacity	319.1	21.3
TOTAL	1 480.3	98.38



What (peoples, cultures, modes of thinking, ways of being) do we sacrifice in pursuit of success, progress, profit, modernity, and the promise of a good life?