


THE IMPORTANCE OF A JUST ENERGY TRANSITION FOR O&G PRODUCING COUNTRIES




WHAT IS THE CONCEPT OF JUST ENERGY TRANSITION?

The term "just transition" was first used by the labour movement in the United States in the 1970s, to warn about the negative economic impact that increased regulations could have on employment and income of workers in industries considered to be polluting. Since then, the term has evolved and spread among environmental justice groups, union movements, international organizations and the private sector.


In the energy sector, the concept of just transition is often associated with the adoption of criteria and measures to mitigate the negative economic and social impact in:



Fossil fuel industry workers



Poor communities without resources to mitigate or adapt to climate change



Countries, regions or localities that specialize in the production of fossil fuels

IMPLICATIONS OF THE ENERGY TRANSITION IN O&G PRODUCING COUNTRIES

Productive activities associated with O&G extraction are the main source of wealth generation and employment in many producing countries. For this reason, a low-carbon energy transition must consider:



Assets valued in trillions of dollars

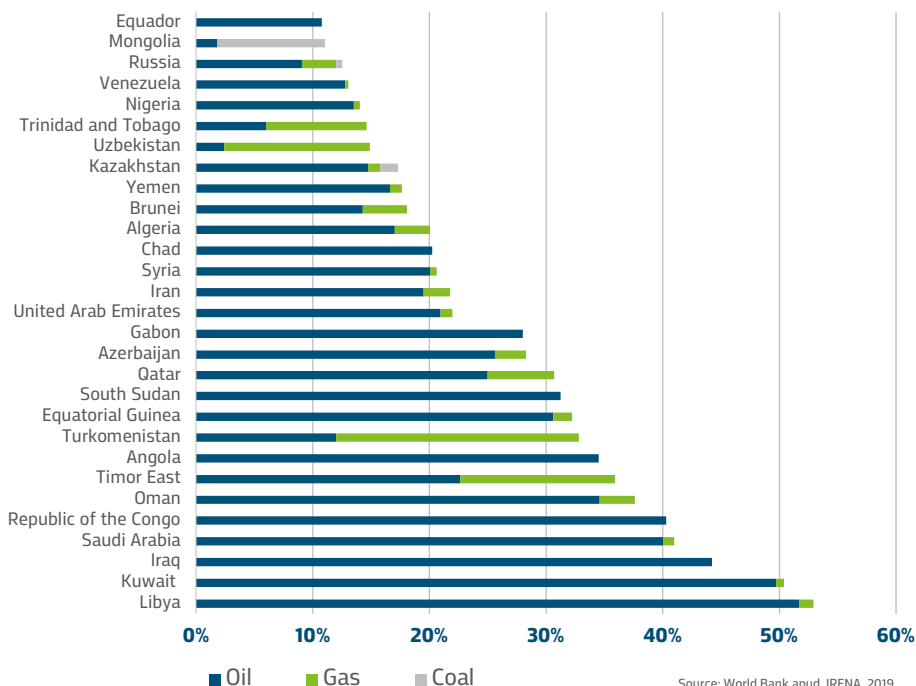


Millions of direct and indirect jobs



The sources of income that sustain national and sub-national economies

Fossil fuel revenue as a percentage of GDP (Average 2007-2016)



AN INORDINATE ENERGY TRANSITION MAY CAUSE:



Deteriorating of socio-economic indicators in O&G producing countries



Social and political tensions



Other phenomena such as the forced migration of people for economic and social reasons

The implementation of plans aimed at reducing the impacts of the energy transition in O&G-producing countries presents major challenges, especially for developing countries. For example:



Difficulties in efficiently managing income from the O&G industry



Challenges to improve socio-economic indicators

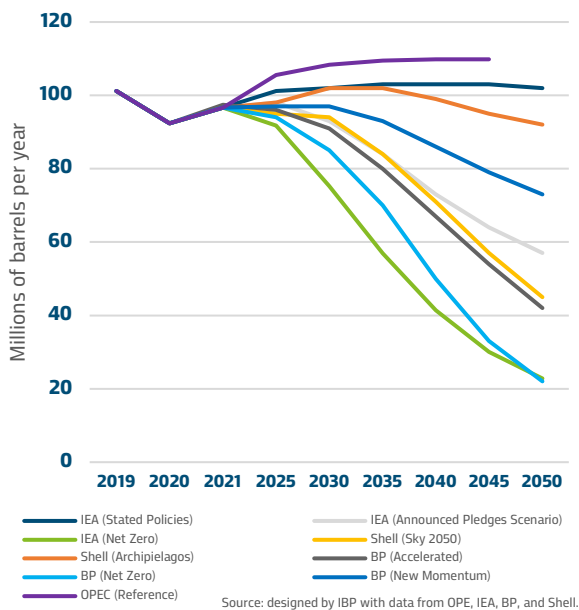


In some cases, a high level of debt or poorly developed financial systems

DOES THE DECREASE IN O&G PRODUCTION IN DEVELOPING COUNTRIES CONTRIBUTE TO CLIMATE ACTION?

The reduction in O&G production needs to be aligned with decarbonization plans capable of encouraging a reduction in the demand for fossil energy sources in the main consumer markets and mitigation goals beyond the energy sector.

Global oil demand projections (mbd)



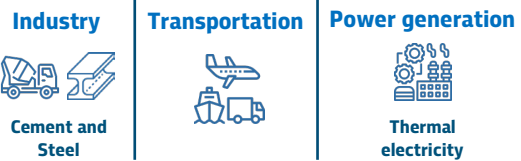
According to more conservative scenarios, oil consumption should continue to grow for at least the next two decades

At COP 27 in 2022, the difficulties faced by developing countries in financing their climate action plans, estimated at US\$ 5.9 trillion by 2030, were highlighted.

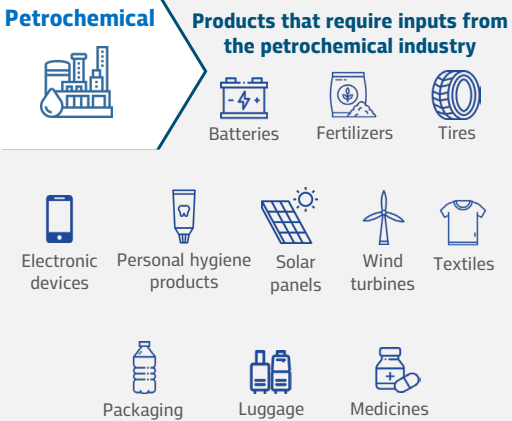
In recent years, developed countries and financial institutions have reduced credit lines for fossil fuel-based energy projects in developing countries.

At COP 26 in 2021, developed countries set an annual target of US\$100 billion in joint financing for mitigation actions in developing countries. However, this target has not yet been reached.

Main drivers of the demand for fossil fuels:



Non-energetic products



The drop in O&G production and exports from developing countries could have adverse effects:



An imbalance in supply and demand structures



An increase in oil barrel prices



Energy insecurity

SOME OF THE COUNTRIES WITH O&G RESERVES, WHICH ARE AMONGST THE MOST VULNERABLE IN THE CONTEXT OF THE ENERGY TRANSITION, ARE ALSO THE LEAST RESPONSIBLE FOR GLOBAL GHG EMISSIONS

Amongst O&G-producing countries, the impact on global GHG emissions can be analyzed by considering the scope of their activities:



Countries that have significant O&G reserves but have not yet begun to monetize these resources; or are just starting these activities.

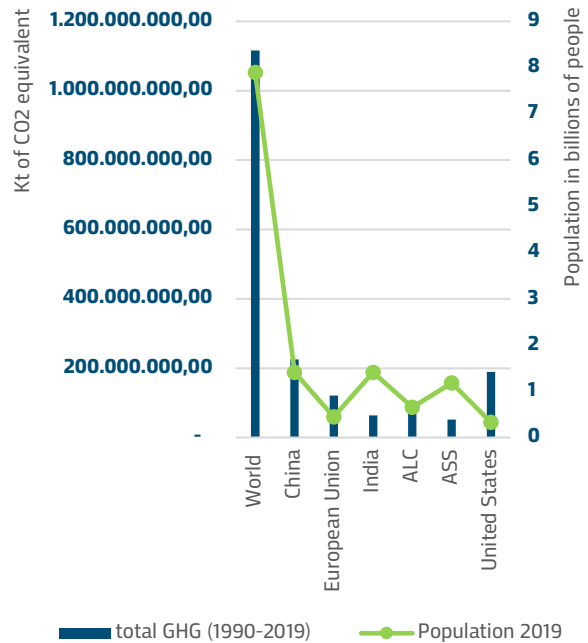


Countries whose production is predominantly of natural gas



Countries whose production is predominantly of oil

GHG emissions over the period 1990-2019 in selected countries and regions

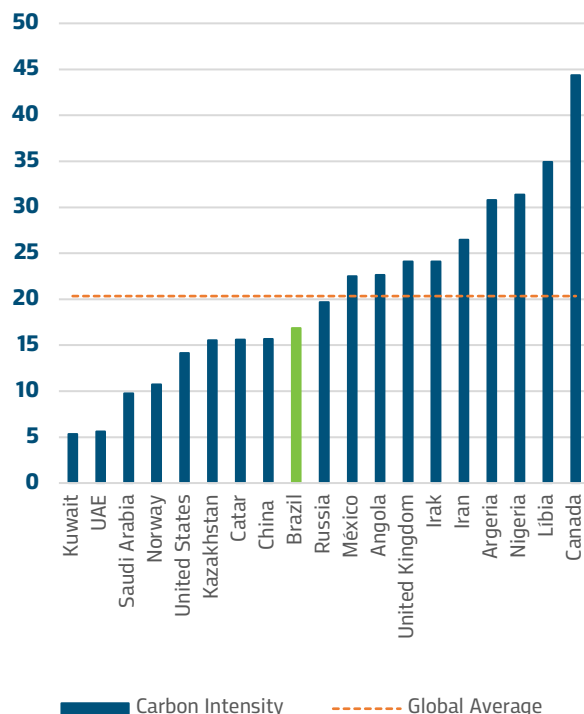


* Latin America and the Caribbean.
 ** Sub-Saharan Africa.
 Source: designed by IBP using data from the World Bank, 2019.

THE SHARE OF GHG EMISSIONS LINKED TO OIL PRODUCTION ACTIVITIES VARIES ACCORDING TO THE VOLUME AND QUALITY OF THE RESOURCE EXTRACTED

Carbon intensity of oil production in selected countries

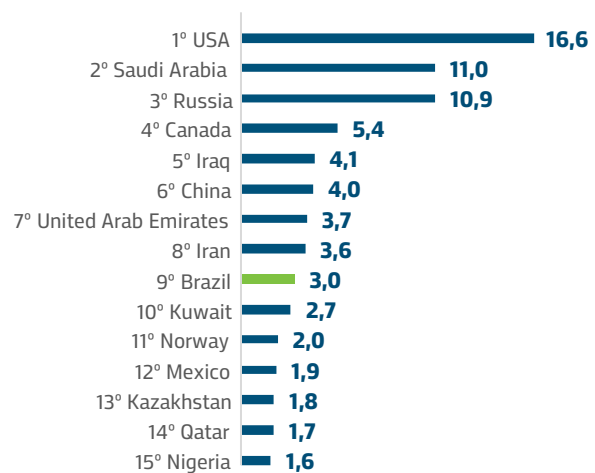
kgCO₂/obe, (2019)



Source: designed by IBP using BP data, 2022.

World's largest oil producers

Millions of barrels per day, 2021



Source: designed by IBP using BP data, 2022.

The monetization of O&G resources could be an alternative for financing climate action plans in developing countries

The production and export of O&G can be a source of funds for developing countries to fund their climate action plans.



BUT WHAT DOES JUST MEAN?

The literature on just energy transition establishes some criteria for identifying which countries could have priority in monetizing their O&G reserves:

Criteria raised by the literature on just energy transition:



Accountability

The country's share of global GHG emissions



Necessity

Ability to finance their climate action plans



Equality

Population size and income level



Sovereignty

Energy supply security guarantees



Cost-effectiveness

Production costs, effectiveness in reducing GHG emissions, and institutional capacity



WHAT DOES THE PARIS AGREEMENT SAY?

Article 2 of the 2015 Paris Agreement states that its implementation will be done "in a manner that reflects equity and the principle of common but differentiated responsibilities and respective capabilities in the light of diverse national circumstances".

ALTERNATIVES FOR O&G-PRODUCING COUNTRIES

O&G-producing countries need to move forward in implementing plans to mitigate the socio-economic impact of the low-carbon energy transition. These plans could include the following measures:



Implementing strategies to extend the longevity of the industry by reducing GHG emissions (CCUS, natural gas, and production of less carbon-intensive oils)



Adopting plans for economic diversification beyond fossil fuel-intensive production activities and investments in RD&I



Supporting workers in the sector in reformulating their professional career plans



Carrying out climate change mitigation and adaptation plans

THE IMPORTANCE OF INTERNATIONAL COOPERATION TO MITIGATE THE IMPACTS OF THIS PHENOMENON IN MORE FRAGILE O&G-PRODUCING COUNTRIES

Industrialized countries, which have a greater share in global GHG emissions, can coordinate planned actions to fulfill their demand for fossil fuels by purchasing these resources from developing countries.

COOPERATION PLANS MAY INCLUDE:



Diversification of O&G supply sources from reliable producing countries



Institutional strengthening programs for the implementation of public policies focused on energy and climate



Compensation programs to developing countries for the decision not to monetize their O&G reserves