

Africa and the Energy Transition



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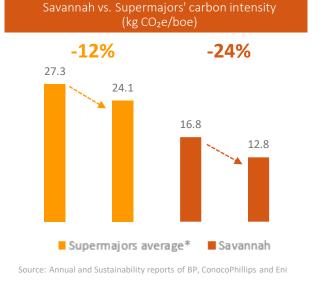
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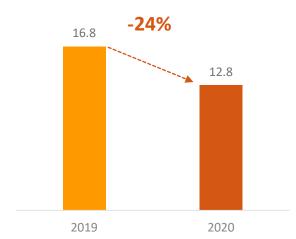
Savannah Energy PLC | Africa and the Energy Transition

Sector leading ESG performance

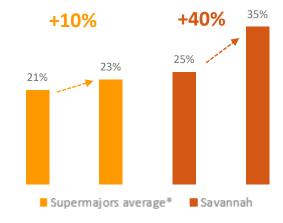






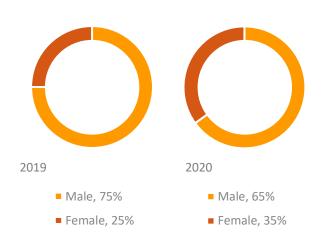


Savannah vs. Supermajors' senior management female gender diversity (%)

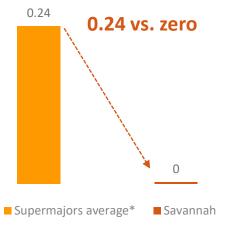


Source: Annual Reports of BP, Chevron, ConocoPhillips, Eni, ExxonMobil, Royal Dutch Shell and Total.

Savannah's senior management female gender diversity (%)

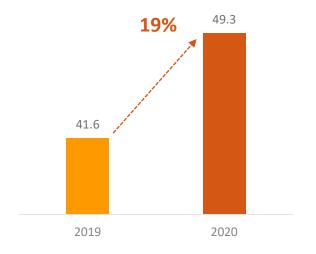


Savannah's Lost time injuries (per 200,000 hours worked)



Source: Annual Reports of BP, Chevron, ConocoPhillips, Eni, ExxonMobil, Royal Dutc Shell and Total.

Savannah's Total Contributions (US\$m)*



*Note: Total contributions defined as payments to governments, employee salaries and payments to local suppliers and contractors

- *Note: based on the latest published data by BP, ConocoPhillips and Eni who report their carbon intensity ratios on this basis. (1)
- *Note: average of BP, Chevron, ConocoPhillips, Eni, ExxonMobil, Shell and Total. (2 & 3)

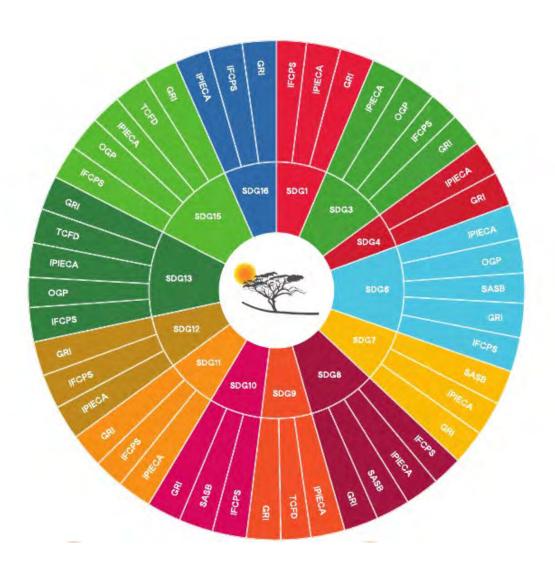
Our refocused sustainability strategy



nes	1 Promoting Socio-economic prosperity Socio economic prosperity	Ensuring safe and secure operations • Health and safety	3 Supporting and Developing our people • Workforce culture and engagement	4 Respecting the environment • GHG emissions
Material Issues	 Tax transparency and contribution Community engagement and development Local content and responsible procurement 	Security and human rights	 Training and development Diversity and equality 	Biodiversity Water management
Ambitions	 Make a positive difference to the socio- economic development of our host countries Build strong and meaningful relationships with our local communities based on mutual trust and benefit Enhance value creation potential by championing the development of local content 	Continually prioritise and improve upon the safety and security of our work environment	 Cultivate a winning and inclusive culture to position our employees and the business for success Recruit, develop and retain the best talent through our commitment to professional development 	 Deliver a cleaner performance by minimising our GHG emissions Monitor and manage our impacts on biodiversity and water
SDGs		3	8 manusus Marin Marin M	
2020 reporting metrics	 Total contributions Social impact investment # of social impact projects Payments to local suppliers and contractors 	 # of security/transport incidents # of journeys safely managed 	 # of employees Amount of training hours Gender diversity % of local employees Ethnicity statistics 	 Scope 1 GHG emissions Scope 2 GHG emissions Carbon intensity ratios UK Energy usage

Our new sustainability performance and reporting framework SAVANNAH ENERGY





- Strategy anchored around the 13 most relevant UN SDGs to Savannah
- Integrated with six additional sustainability reporting standards



- Rolling out new sustainability performance and reporting framework across the Group in 2021.
- Plan to provide measurable, verifiable and trackable performance metrics going forward and targets from 2022







Currently Richard is a fellow of the Canadian Global Affairs Institute specialising in Energy Security, and is executive Chairman of Duna Energia in Brazil. He runs Pandreco Energy Advisors, a consultancy business advising banks, asset-managers and energy companies.

Recently Richard has presented to the UK's Parliamentary Group on Energy Studies as well as to the board of one of Africa's largest banks. He was a guest editor of the IEA "World Energy Investment Report 2021" published earlier this year.

Richard has a broad background covering engineering research, oil and gas operations, senior management roles in both executive and non-executive functions, debt and equity financing as well as personally investing in energy transition start-ups. He has worked extensively in and across emerging markets, speaks fluent French as well as modest Spanish and Portuguese.

ENERGY AND DEVELOPMENT

Dr Richard Norris,
Pandreco Energy Advisors

An African Perspective



ENERGY AND DEVELOPMENT

18 Stretegic Report

Market context

Guest authored by Dr Richard Norris

Development depends on energy

Executive summary

For over a century, industrialisation has used coal, oil and gas as the engines of growth and development. Iffting entire regions far above subsistence levels. Whilst there is now a dramatic increase in the development of renewable energy, technologies, the role of oil and gas will not be discrupted within the short time-frames. If we look begund the headlines and focus on the majority of the world's population in emerging-market economies, a rapid energy transition is not taking place. In the meantime, access to cheap, ratible and local sources of energy are underpliming the economic development of billions of people, who appire to education, healthcare, job apportunities as well as good givennment, and good for granted, investing in oil and gas in emerging markets, and in particular in Africa, is an essential step on the



Dr. Richard Norris

We are delighted that Dr Richard Norris has guest authored this acution of our Annual Rapart. Dr Norris is a Fallow of the Canadan Global Affairs Institute and separately runs his consultancy firm. Pardirect Energy Advisors. He is a leading author and speaker on the role of energy in society and economics. He advises public and private bodies on merce strategy as well as on specific energy investments.

Dr Norris' career has spanned research (Imperial College/ BP), operational experience (Elf Aquitaine/ Total), management (Geopetro/Cadadx), board roles (Gandax/ Eland PLC/Duna Energia), as well as debt financing (BNP Parbas/BT Farctual) and equity investments (Helios investment Partners/BTG Pectual and Family Offices).

He holds a BSc in Geology, an MSc in Petroleum Geology and a PhD in Petroleum Engineering (Imperial College, London).

Please note that the opinions expressed in the Market Context section of the Annual Report are those of Richard Norris. They do not purport to reflect the opinions or views of the Company

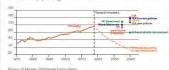


Savannah Energy PLC Annual Report and Accounts 2020

Introduction

According to many headlines, the age of hydrocerbons is over, reserves and resources are "stranded", and oil and gas companies must reinvent themselves or perieh Whilst the idea of Peak Demand (i.e. oil consumption will reach a peak and then start to decline) is very enticing, it distracts from the fact that we will continue to use oil and gas in large quantities for many decades, even in aggressive transition scenarios. Orticolly, as demand peaks and then wanes, so supply is assumed to be abundant; supply was so abundant in 2020 that the West Texas Intermediate oil price went briefly negative. In the rush to write off society's dependence on hydrocarbons, we overlook the awkward fact that existing oil fields decline or "depicte" year after year, much like how a belloon defistes as air escapes. This creates a significant gap between the future production of our existing oil and gas fields and the forceast requirements.

Oil "future production wedge": demand vs existing field supply (million barnels per day.)



"Development depends on energy, and the alternative to development is suffering; poverty, disease and death. Such conditions create instability and the potential for widespread violence. National security therefore requires developed nations to help increase energy production in their more populous developing counterparts."

Rhodes and Beller

"The problem with being at the top of the HDI ranking is that it is easy to forget how you got there and what maintains your quality of life."





MAGICAL THINKING







SEEING THE LIGHT?



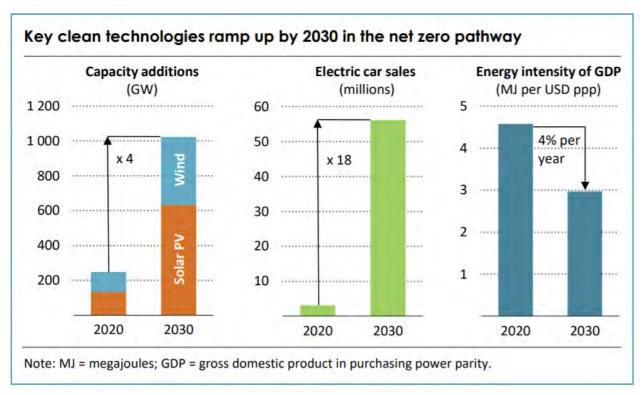


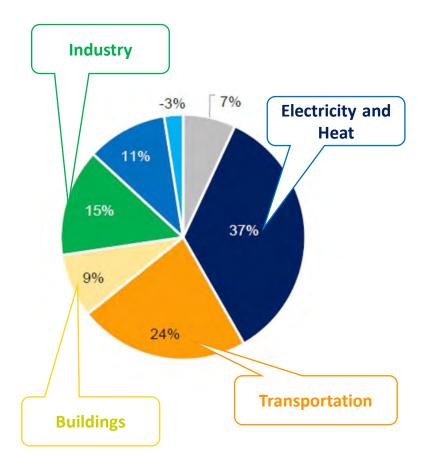
The Energy Transition:

- A transition from legacy fuels to renewables
- A transition out of energy poverty



ENERGY TRANSITION

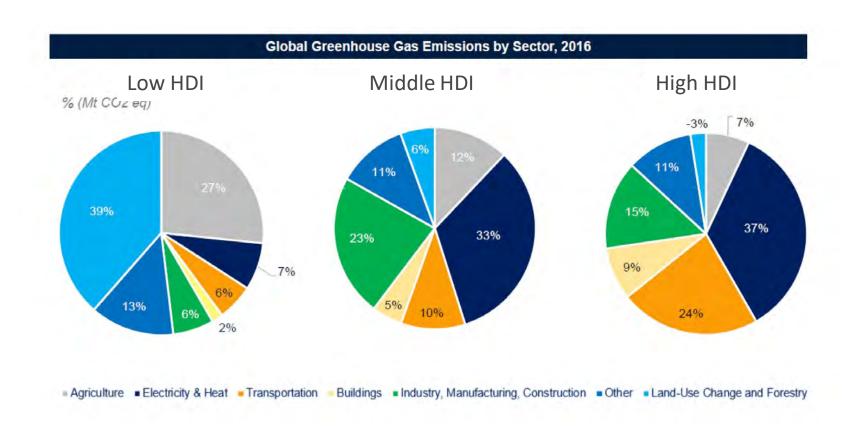




IEA Net Zero



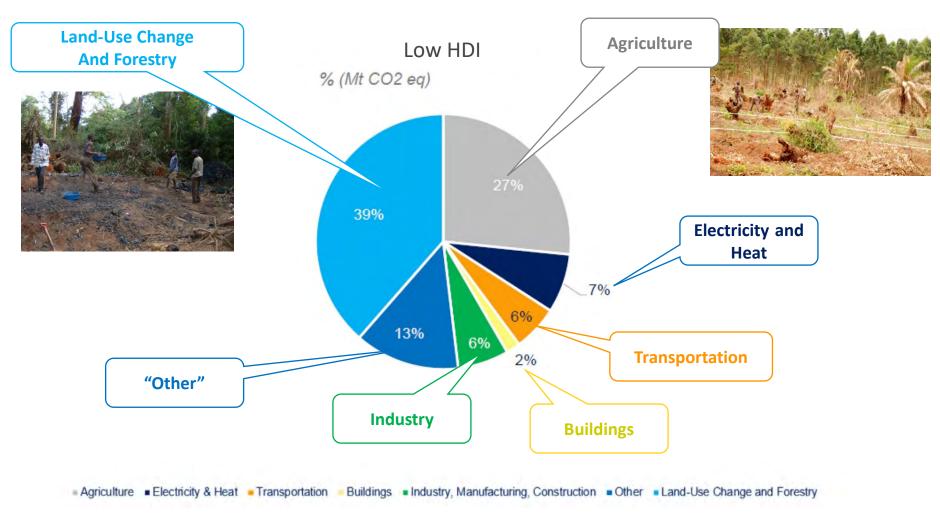
ELECTRICITY AND TRANSPORT



2016 data, sources: Climate Watch, World Resources Institute..



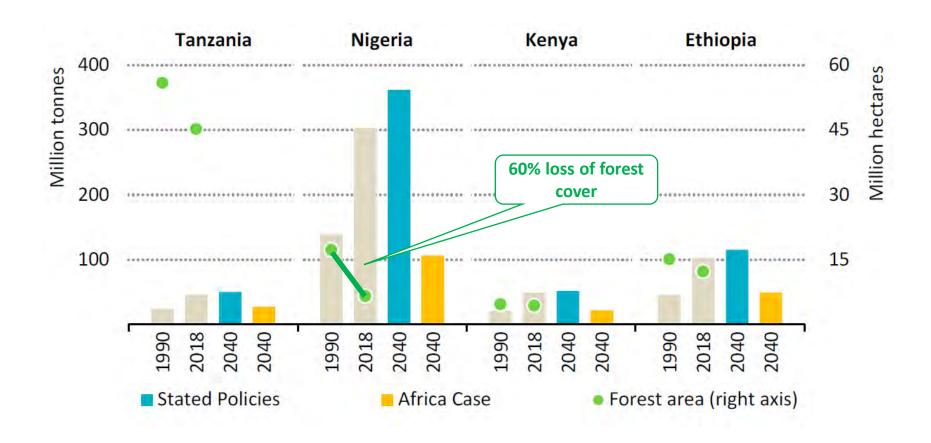
ELECTRICITY AND TRANSPORT



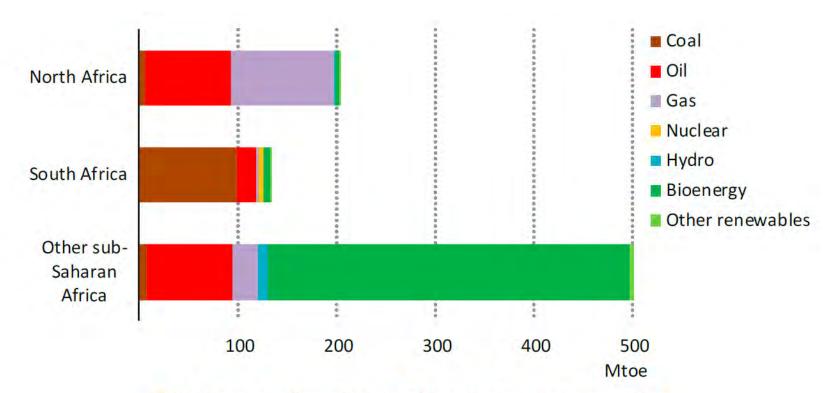
2016 data, sources: Climate Watch, World Resources Institute..



"BIOMASS"



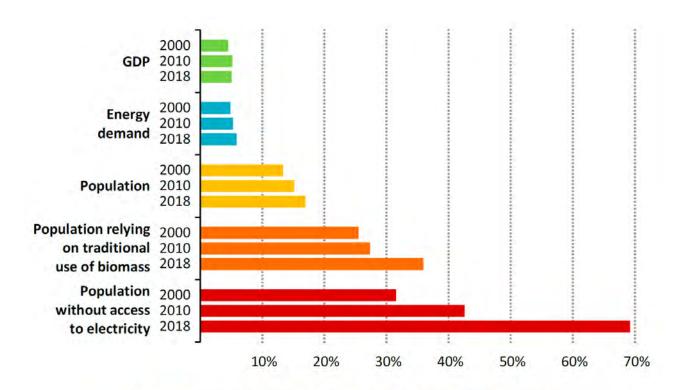




With the exception of South Africa, the sub-Saharan Africa energy mix is dominated by solid biomass and oil



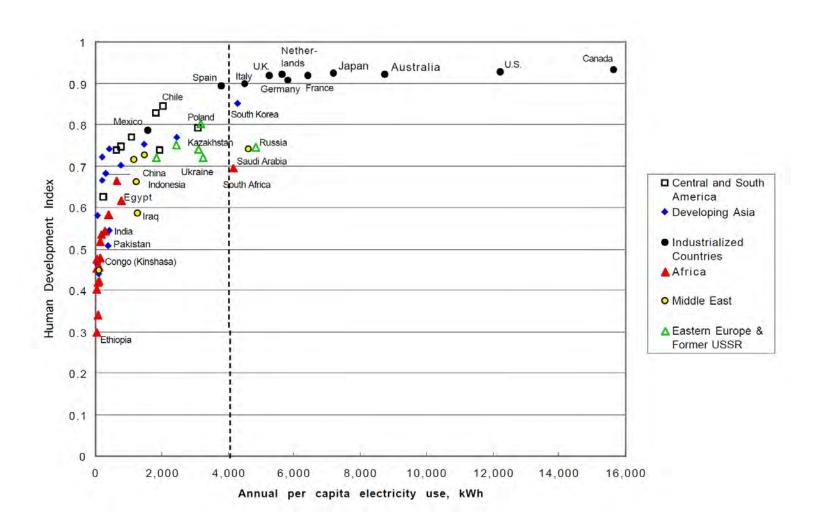
AFRICA ENERGY OUTLOOK



Africa accounts for a low share of the world's energy demand and a high share of the population without access to modern energy services



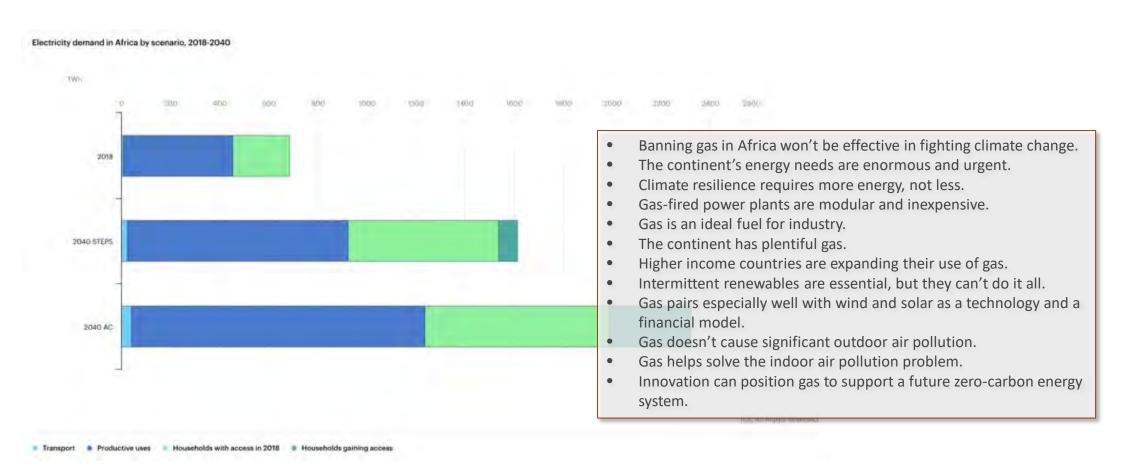
THE IMPORTANCE OF ELECTRICITY



 $[*]Pasternack\ 2010\ https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.587.2237\&rep=rep1\&type=pdf$



GAS TO POWER IN AFRICA

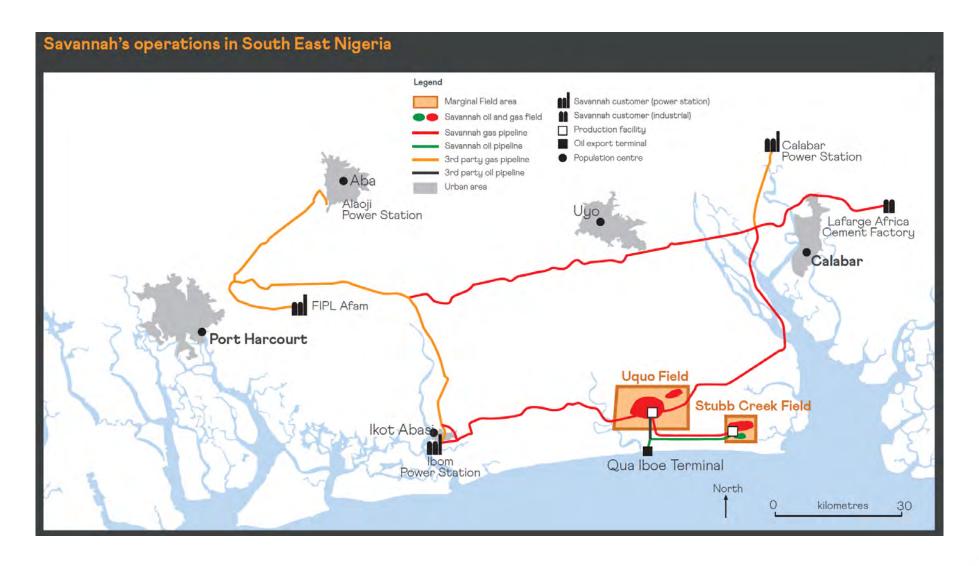


Text: World Economic Forum https://www.weforum.org/agenda/2020/07/12-reasons-gas-africas-renewable-energy-future/

Image: IEA

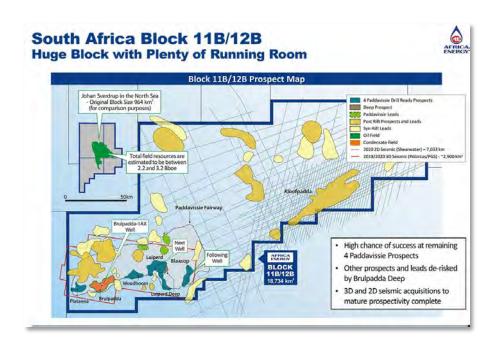


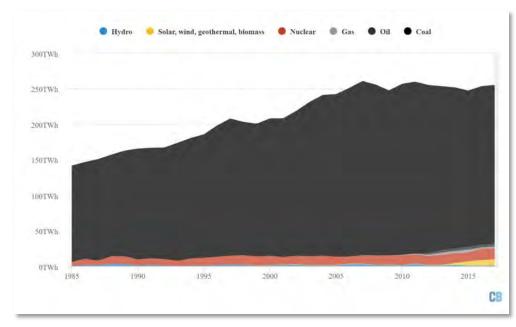
CAS TO POWER





GAS TO POWER - RSA

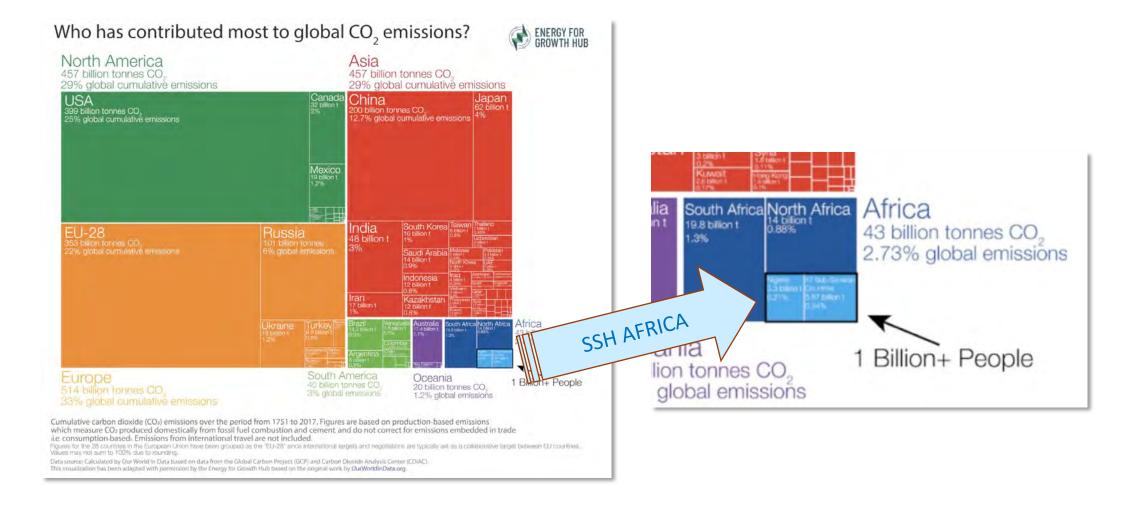




Gas still has 30% - 50% CO2 emissions relative to coal, but is often considered a moral hazard not a partial solution.

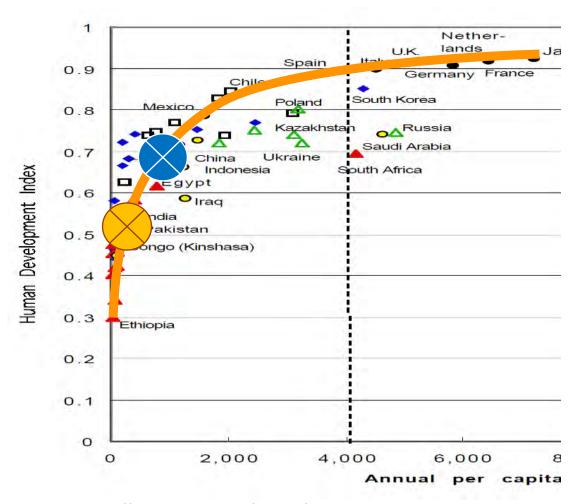


CUMULATIVE CO2 EMISSIONS





TRIPLE SSH ELECTRICITY USING GAS

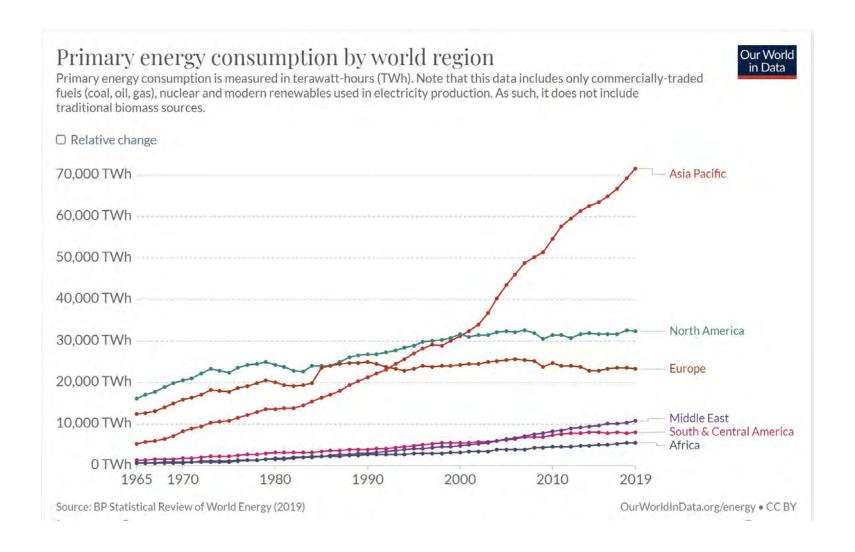


792 kWh/p Eq. Morocco (HDI 121) or Indonesia (HDI 107) \$3500 annual/per capita 48 counties 1 Billion+ people = +0.64% of global GHG 264 kWh/p Eq. Sudan (HDI 170) or Myanmar (HDI 147) \$1200 annual/per capita

Pasternack 2010 https://citeseerx.ist.psu.edu/viewdoc/download?doi=10.1.1.587.2237&rep=rep1&type=pdf https://www.energyforgrowth.org/blog/what-happens-to-global-emissions-if-africa-triples-down-on-natural-gas-for-power/

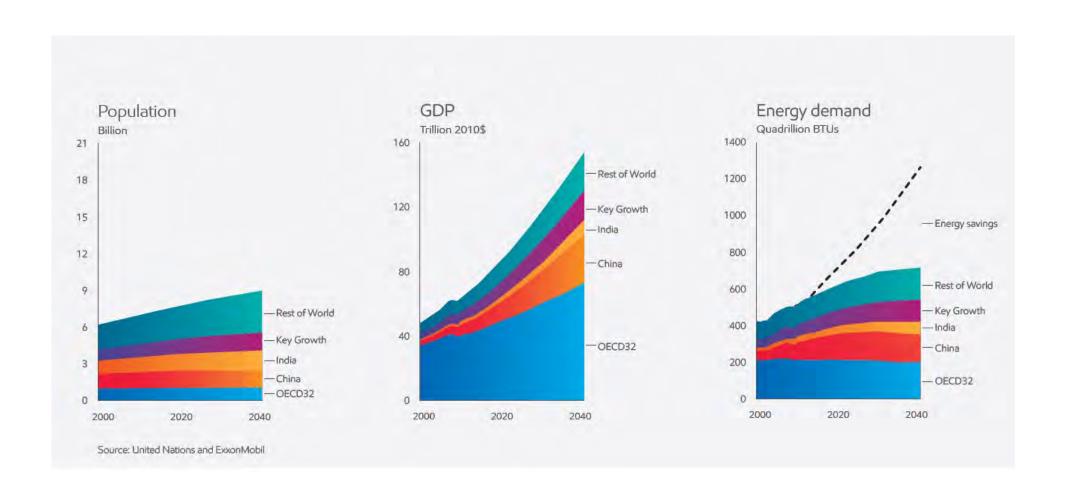


ASIA-PACIFIC, FOR NOW....



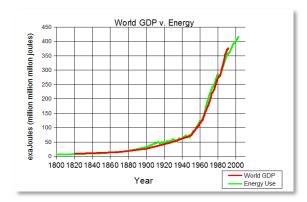


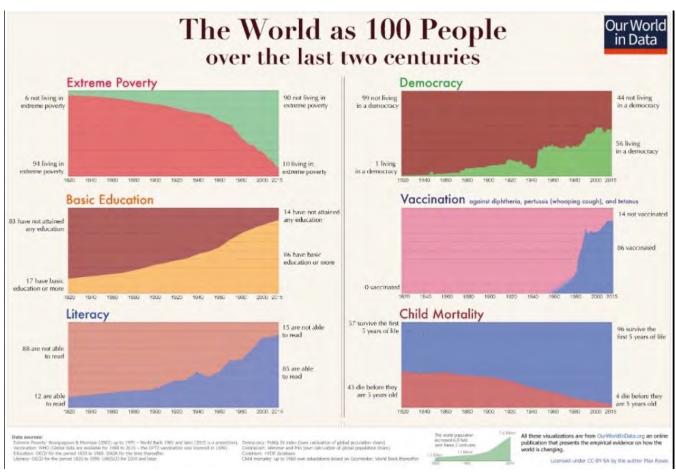
POPULATION, GDP AND ENERGY





ENERGY AND HUMAN DEVELOPMENT

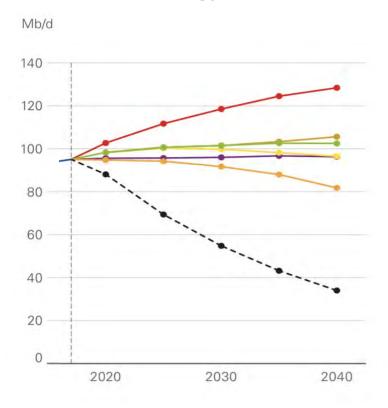




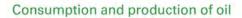


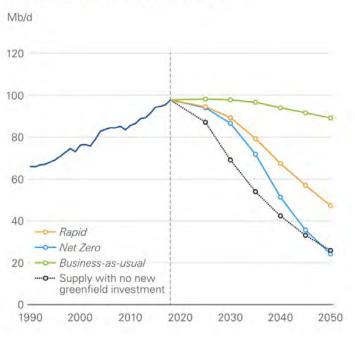
BP FORECAST VS SCENARIOS

2019 Energy Outlook



2020 Energy Outlook

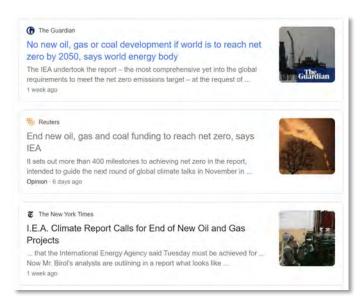




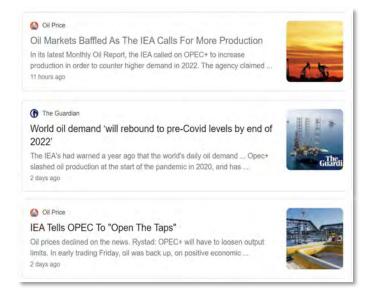


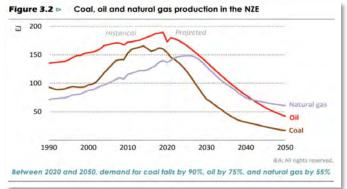
SCENARIO VS FORECAST

IEA MAY 2021



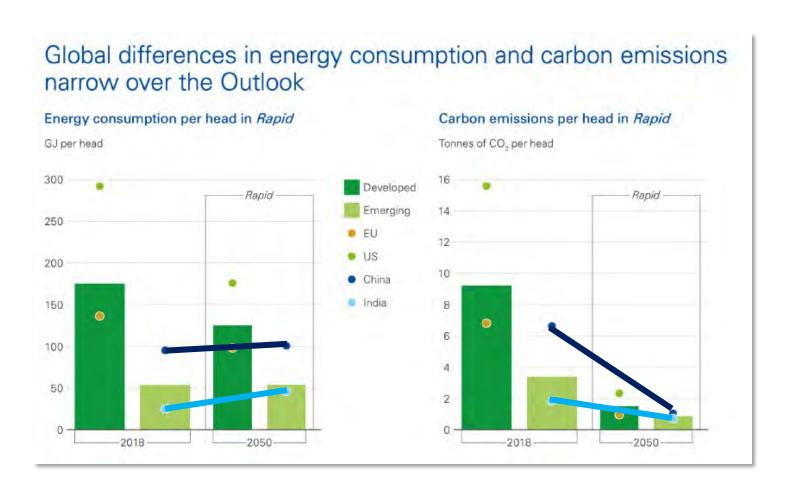
IEA JUNE 2021







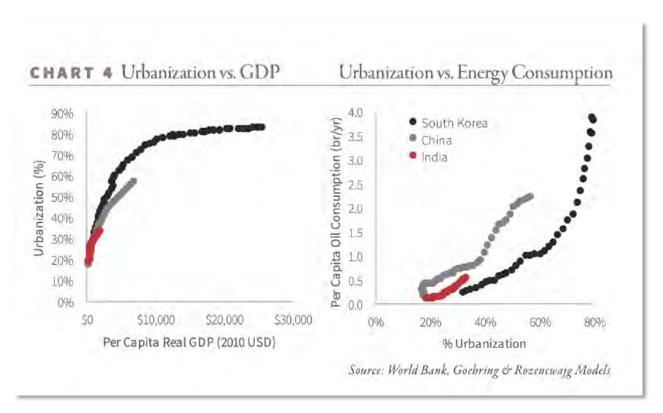
THE IMPORTANCE OF FORECASTING



Source: BP



A DIFFERENT PATHWAY?



Open Insights Newsletter By HFI Research & Open Square Capital



URBANIZATION AND ENERGY



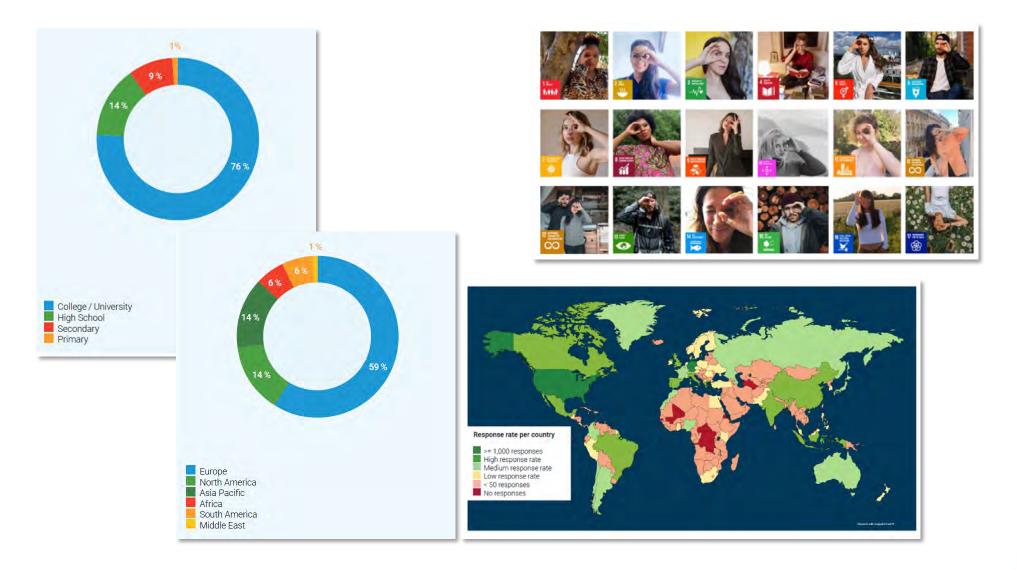
https://www.visualcapitalist.com/worlds-20-largest-megacities-2100/



STAKEHOLDERS AND VIEW-POINTS



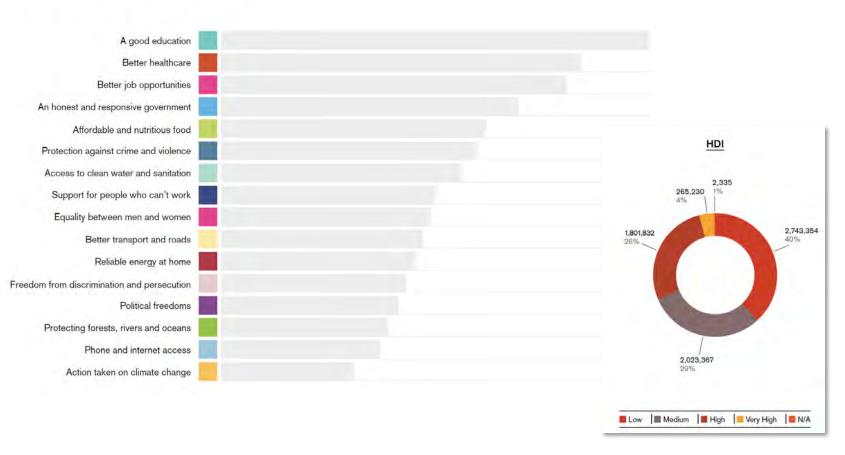
UN 2018-19 "GLOBAL SURVEY"





MY WORLD 2015

This is what MY World voters want:







UN SUSTAINABLE DEVELOPMENT GOALS































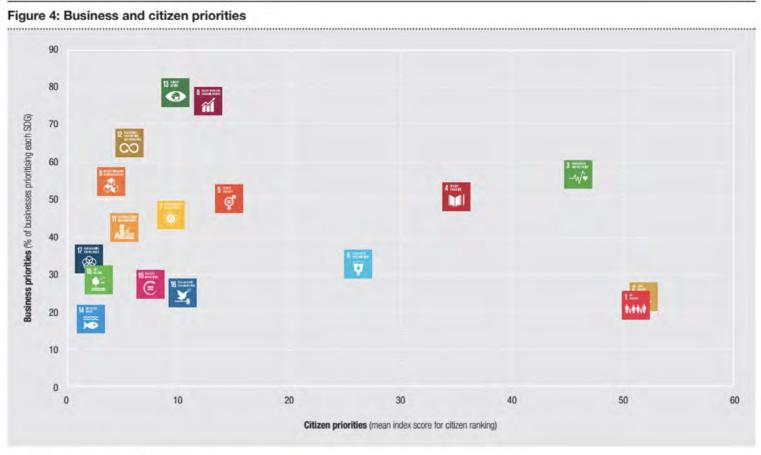








UN SUSTAINABLE DEVELOPMENT GOALS



Source: PwC, SDG Reporting Challenge 2017

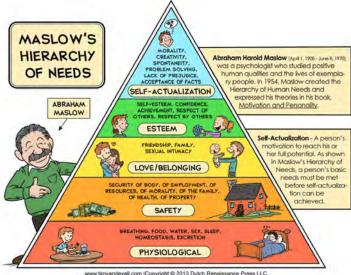
Base: Companies with priority SDGs (173); All citizen respondents (2563)

https://pre-sustainability.com/legacy/download/Making-the-SDGs-relevant-to-business public-version.pdf



SDGS HIERARCHY?













UN SUSTAINABLE DEVELOPMENT GOALS

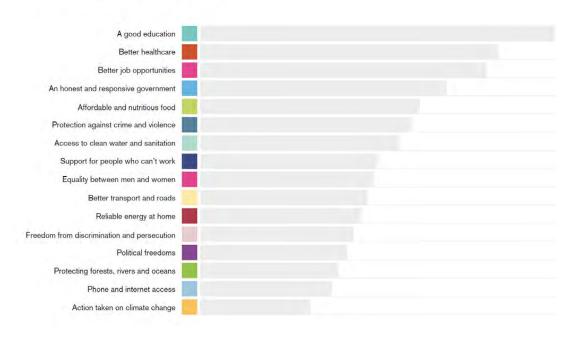


 $https://pre-sustainability.com/legacy/download/Making-the-SDGs-relevant-to-business_public-version.pdf$



ALIGNMENT OF SDG GOALS

This is what MY World voters want:







THE ENERGY TRILEWNA







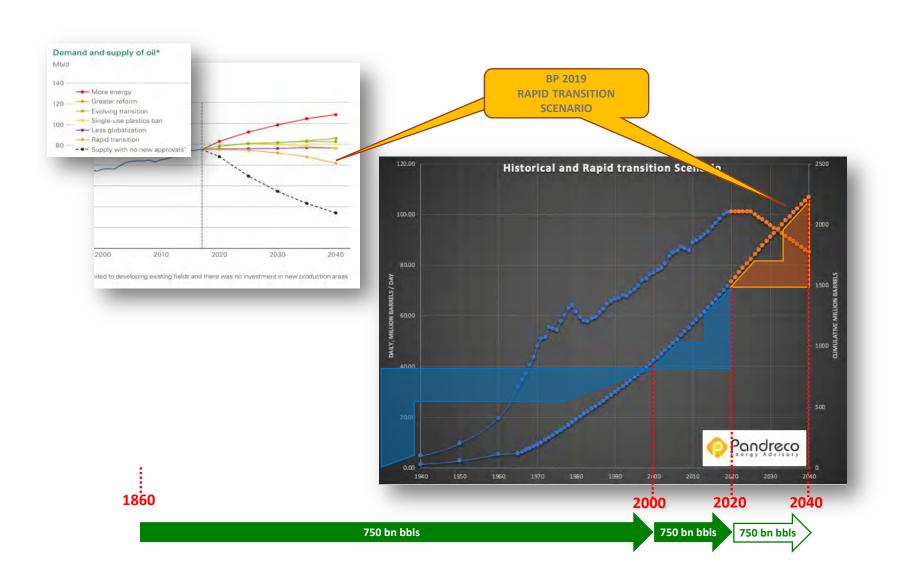
Cost of Energy





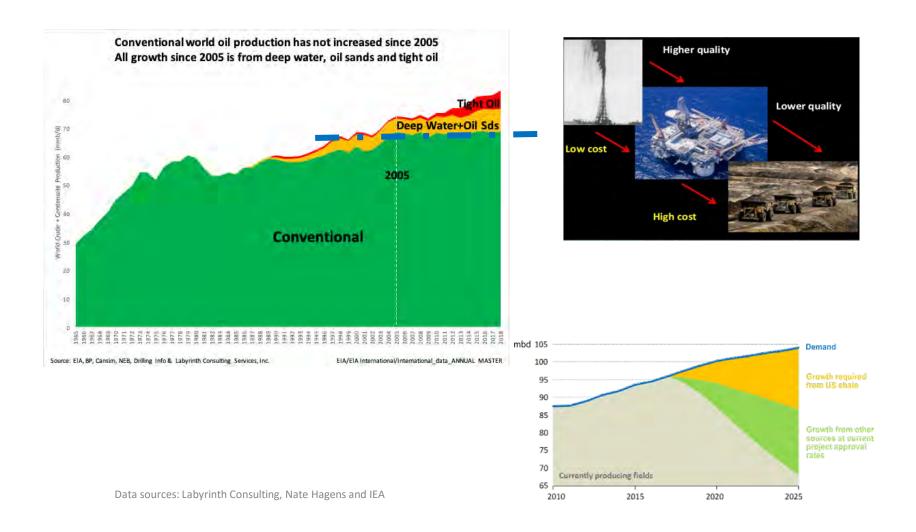


PEAK, MAYBE? GONE - NOT AT ALL





PEAK "CHEAP"





NOT ACTIVISM, NOT AID. INVESTMENT



While on transit today in Rwanda four Norwegian and African Anti Oil Campaigners recognised me and they went after me. They called me Anti African and Imperialist enabler.

So laughable. They want Africa to not produce oil and Gas when Norway is

developing new fields.

- "We will facilitate a future-oriented Norwegian oil and gas industry capable of delivering production with low emissions within the framework of our climate policy,"
 - Tina Bru, Minister of Petroleum and Energy of the centre right party.
- "We don't think that we should stop producing oil and gas now and leave it for Russia or Qatar to supply...".
 - Espen Barth Eide, the Labour party energy spokesman.





PARTING THOUGHTS

- Perception of the Energy Transition is partly a post-code lottery
- The African Energy Transition is a primarily a transition out of energy poverty
- Renewable energy sources will be (a small) part of the solution
- Africa's natural resources will be a big part of the solution
- > Investing in development and growth is impact investing









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