

# GLOBAL CLIMATE CHANGES-----RISING-----RISKS-----at a GLANCE

3 SCENARIOS, RESTRAINING & RECONCILING the FUTURE PRODUCTION & CONSUMPTION of FOSSIL FUELS against these RISKS

## GLOBAL TEMPERATURE

The 3 ranges shown between the lower and upper lines are those within which temperature is expected evolve in response to the 3 ranges of rising atmospheric CO2 concentrations shown below.

## ATMOSPHERIC CO<sub>2</sub> CONCENTRATIONS

The 3 ranges shown between the lower and upper lines are proportional to the CO2 emissions budgets shown below.

The lower line assumes the proportion of annual emissions retained by the atmosphere remains constant at 50%. The upper line assumes the "sinks" for CO2 fail and retention is constant at 100%

## CONSUMERS' PROTOCOL

"Contraction & Convergence" for the international allocation and trade of CO2 emissions entitlements (measured in gigatonnes carbon - Gtc), meeting the OBJECTIVE of the UN Climate Treaty with its already agreed principles of PRECAUTION, EQUITY & EFFICIENCY.

## PRODUCERS' PROTOCOLS

To internationally manage OIL and GAS depletion and the phase - out of COAL. Expressed as emissions (in Gtc) the total agreed production must match the total agreed Consumption under "Contraction & Convergence".

U.S. oil production (declining) equals half U.S. oil

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