

How Many Gigatons of Carbon Dioxide...?

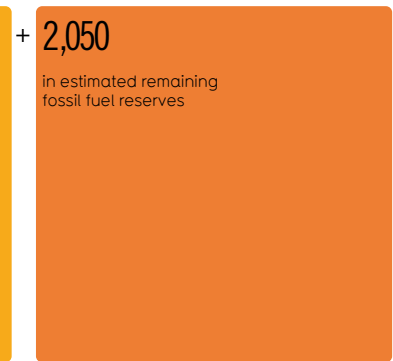
have we released
to date?



more can
we "safely"
release*?



are left to release?



CURRENT HUMAN
EMISSIONS PER YEAR

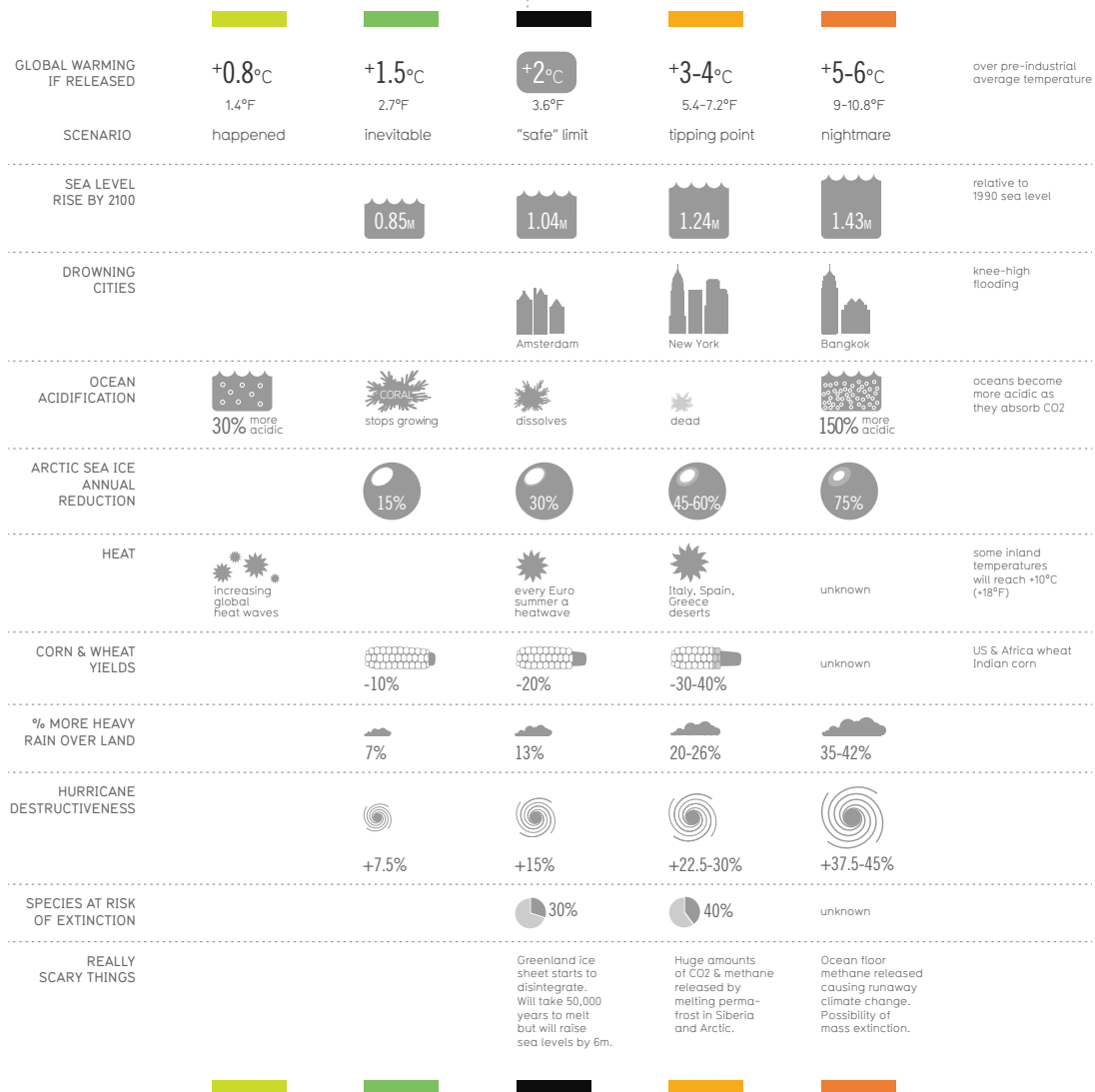


* before 2050 and still have a chance
of staying below 2°C warming

TIME BEFORE WE BREAK
OUR 'CARBON BUDGET'



13 YEARS
average yearly emissions increase: 3%



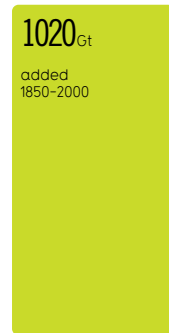
LAST TIME CO2 LEVELS
WERE THIS HIGH
15,000,000
YEARS AGO

MINIMUM TIME NEEDED TO RE-ABSORB
ALL THIS CO2 FROM ATMOSPHERE
300,000
YEARS

see data for details

How Many Gigatons of Carbon Dioxide...?

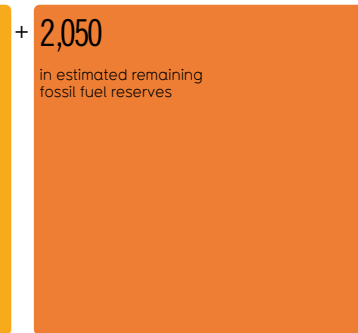
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CURRENT HUMAN
EMISSIONS PER YEAR **31** gigatons

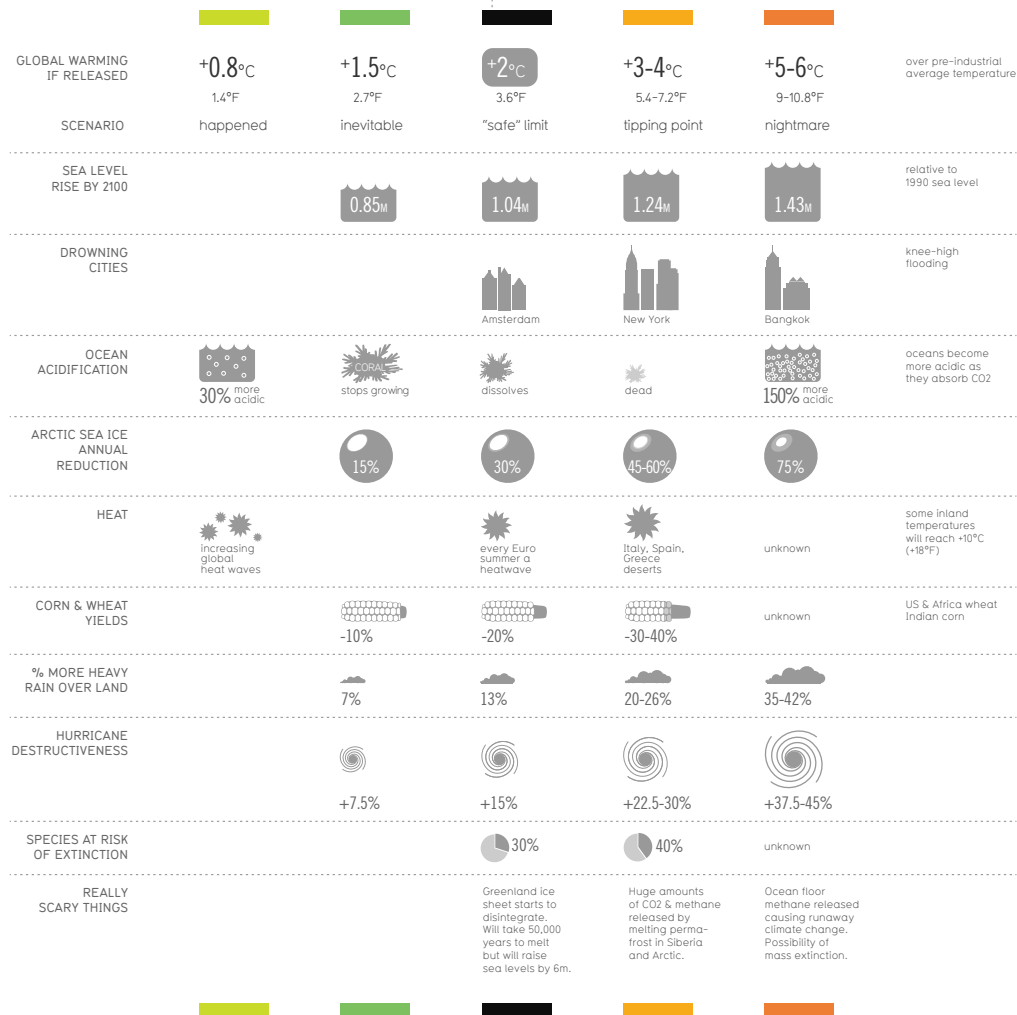
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are left to release?

+ 2,050
in estimated remaining
fossil fuel reserves

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13 YEARS
average yearly emissions increase: 3%

over pre-industrial
average temperature

nightmare

relative to
1990 sea level

knee-high
flooding

oceans become more acidic as they absorb CO₂

some inland
temperatures
will reach +10°C
(+18°F)

US & Africa wheat
Indian corn

35-42%



+37.5-45%

unknown

Ocean floor methane released causing runaway climate change. Possibility of mass extinction.

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300,000
YEARS

informationisbeautiful.net / data & sources: bit.ly/CO2gigatons

