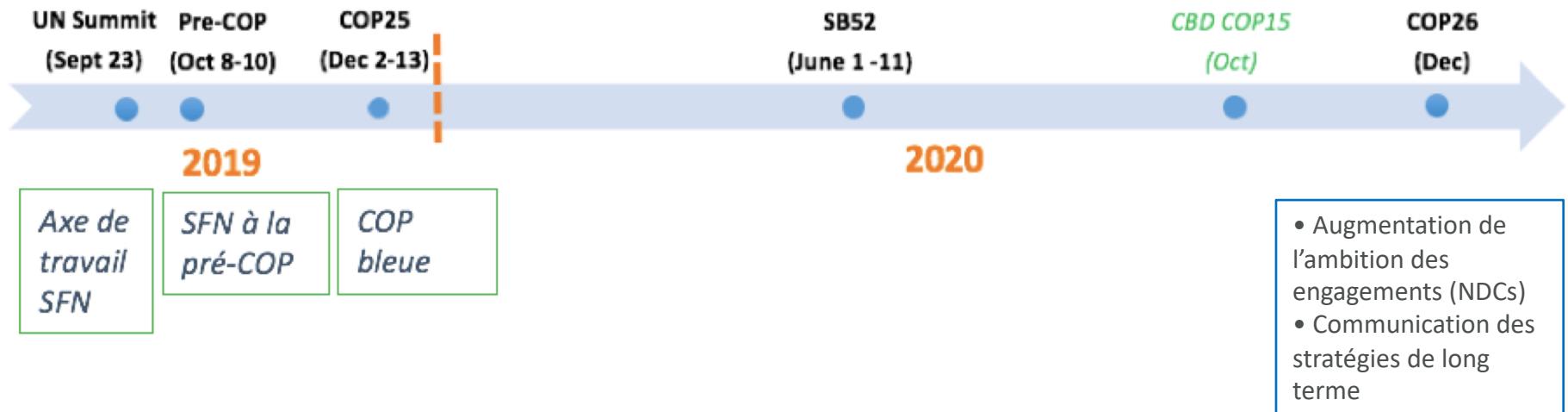


Climat et biodiversité: perspectives pour les négociations et enjeux pour la science

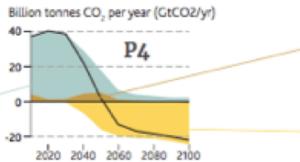
Alexandra Deprez

- Le maître mot d'ici fin 2020 : la hausse de l'ambition
- C'est dans ce contexte que le lien climat-biodiversité émerge dans l'arène climatique



A tale of two 1.5 °C net-zero worlds...

Breakdown of contributions to net-zero global CO₂ emission

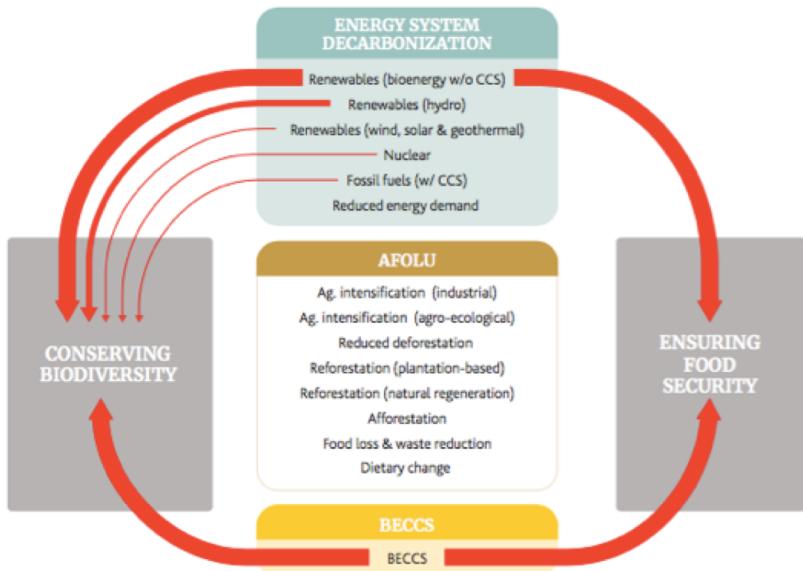


Slow energy system transition (i.e. late decarbonization with increased energy demand) requires greater efforts later on

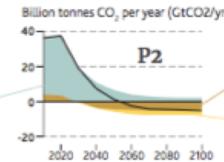
AFOLU emissions are not consistently reduced through 2050 and the sector does not contribute to carbon-dioxide removal (CDR)

Slow energy system transition requires massive CDR—resulting in widespread Bioenergy with Carbon-Capture and Storage (BECCS) deployment (33% of global cropland in 2050 is allocated to energy crops)*

MITIGATING CLIMATE CHANGE TO 1.5°C BECCS-intensive pathway



...and their biodiversity and food security impacts

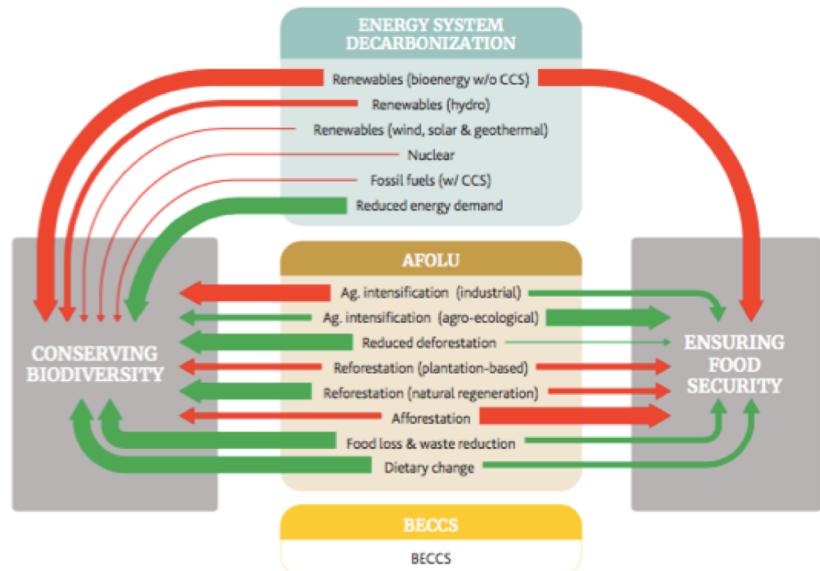


Rapid energy transition (i.e. deep decarbonization and strong energy demand reduction) results in steeper reductions now and need for less efforts later

AFOLU sector goes from being net-emitter to a net sink (through emissions reductions and use of AFOLU CDR measures)

Rapid energy transition means significantly less CDR needed than in P4—resulting in low BECCS deployment (only 7% of global cropland in 2050 is allocated to energy crops)*

MITIGATING CLIMATE CHANGE TO 1.5°C Early deep decarbonization pathway



LEGEND

FAMILIES OF MITIGATION MEASURES

Mass deployment

Limited deployment

SOCIETAL GOALS

IMPACTS OF CLIMATE MITIGATION MEASURES ON BIODIVERSITY AND FOOD SECURITY

