BRIEFING AHEAD OF COP26

UPDATE ON PREPARATIONS FOR THE UN CLIMATE CHANGE CONFERENCE

21 OCTOBER 2021 | 09.30-11.00 CEST

Palais des Nations Room XXVI & Online
SPEAKERS

H.E. Amb. Simon MANLEY
Permanent Representative of the United Kingdom to the United Nations Office, WTO, and other international organizations in Geneva

Ovais SARMAD
Deputy Executive Secretary UNFCCC

Sandeep SENGUPTA
Global Coordinator Climate Change Portfolio, IUCN

Eric USHER
Head, UNEP Finance Initiative

Vaitea COWAN
Cofounder of Enapter, one of the winners of the Earthshot Prize 2021

H.E. Amb. Gian Lorenzo CORNADO
Permanent Representative of the Italian Republic to the United Nations Office and other international organizations in Geneva

Valérie MASSON-DELMOTTE
Co-Chair, Working Group I, IPCC

María MENDILUCE
Chief Executive Officer We Mean Business

Joie CHOWDHURY
Program Coordinator, Environment & ESCR, Int’l Network for Economic, Social & Cultural Rights

Bruno POZZI
Director, Europe Office, UNEP Moderator
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)
- H.E. Amb. Simon MANLEY | Permanent Representative of the United Kingdom to the United Nations Office, WTO, and other international organizations in Geneva

Developments from Pre-COP Milan

Updates from the Secretariat
- Ovais SARMAD | Deputy Executive Secretary, UNFCCC

The Scientific Impetus for Action
- Valérie MASSON-DELMOTTE | Co-Chair, Working Group I, IPCC

The Role of Nature
- Sandeep SENGUPTA | Global Coordinator, Climate Change Portfolio, IUCN

Business Commitment
- Maria MENDILUCE | Chief Executive Officer, We Mean Business

Financing Climate Action
- Eric USHER | Head, UN Environment Programme Finance Initiative

Key Expectations for COP 26 from a Civil Society Perspective
- Joie CHOWDHURY | Program Coordinator, Environment & ESCR, International Network for Economic, Social and Cultural Rights

Fixing Our Climate: Green Hydrogen Initiative
- Vaitera COWAN | Co-Founder, Enapter – Earthshot Prize Winner (“Fix Our Climate”)

Discussion

Closing
AGENDA

Welcome and Introduction

The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)

Developments from Pre-COP Milan

Updates from the Secretariat

The Scientific Impetus for Action

The Role of Nature

Business Commitment

Financing Climate Action

Key Expectations for COP 26 from a Civil Society Perspective

Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
Bruno POZZI
Director, Europe Office, UNEP
Moderator
AGENDA

Welcome and Introduction

The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)

- H.E. Amb. Simon MANLEY | Permanent Representative of the United Kingdom to the United Nations Office, WTO, and other international organizations in Geneva

Developments from Pre-COP Milan

Updates from the Secretariat

The Scientific Impetus for Action

The Role of Nature

Business Commitment

Financing Climate Action

Key Expectations for COP 26 from a Civil Society Perspective

Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
H.E. Amb. Simon MANLEY
Permanent Representative of the United Kingdom to the United Nations Office, WTO, and other international organizations in Geneva
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)

Developments from Pre-COP Milan

Updates from the Secretariat

The Scientific Impetus for Action

The Role of Nature

Business Commitment

Financing Climate Action

Key Expectations for COP 26 from a Civil Society Perspective

Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
H.E. Amb. Gian Lorenzo CORNADO
Permanent Representative of the Italian Republic to the United Nations Office and other international organizations in Geneva
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)
Developments from Pre-COP Milan

Updates from the Secretariat

- Ovais SARMAD | Deputy Executive Secretary, United Nations Framework Convention on Climate Change (UNFCCC)

The Scientific Impetus for Action
The Role of Nature
Business Commitment
Financing Climate Action
Key Expectations for COP 26 from a Civil Society Perspective
Fixing Our Climate: Green Hydrogen Initiative
Discussion
Closing
Ovais SARMAD
Deputy Executive Secretary, United Nations Framework Convention on Climate Change (UNFCCC)
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)
Developments from Pre-COP Milan
Updates from the Secretariat

The Scientific Impetus for Action
- Valérie MASSON-DELMOTTE | Co-Chair, Working Group I, Intergovernmental Panel on Climate Change (IPCC)

The Role of Nature
Business Commitment
Financing Climate Action
Key Expectations for COP 26 from a Civil Society Perspective
Fixing Our Climate: Green Hydrogen Initiative
Discussion
Closing
Valérie MASSON-DELMOTTE
Co-Chair, Working Group I, Intergovernmental Panel on Climate Change (IPCC)
Highlights from the IPCC 2021 climate report

Valérie Masson-Delmotte

14,000 scientific publications assessed
234 authors from 65 countries
78,000+ review comments
Recent changes in the climate are widespread, rapid, and intensifying, and unprecedented in thousands of years.
Observed warming is driven by emissions from human activities, with greenhouse gas warming partly masked by aerosol cooling.
Human-induced climate change is affecting every region in multiple ways, making extreme climate events, including heat waves, heavy rainfall, and droughts, more frequent and severe.
The changes we experience will increase with further warming.
Global warming of 1.5°C and 2°C will be exceeded unless deep reductions in CO₂ and other greenhouse gas emissions occur in the coming decades.
Future emissions will cause future additional warming

Global surface temperature change relative to 1850-1900

-1 0 1 2 3 4 5 °C

1950 2000 2015 2050 2100

1.5°C

CO₂ emissions
- Very high
- High
- Intermediate
- Low
- Very low
Unless there are immediate, rapid, and large-scale reductions in greenhouse gas emissions, limiting warming close to 1.5°C and well below 2°C will be beyond reach.

[Credit: Peter John Maridable]
Some changes could be slowed and others could be stopped by limiting warming
Every tonne of CO₂ emissions adds to global warming

Global surface temperature increase since 1850-1900 (°C) as a function of cumulative CO₂ emissions (GtCO₂)
To limit global warming, strong, rapid, and sustained reductions in CO$_2$, methane, and other greenhouse gases are necessary. This would limit the consequences of climate change and improve air quality.

[Credit: evgeny-nelmin.]
The climate we experience in the future depends on our decisions now.
AGENDA

Welcome and Introduction

The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)

Developments from Pre-COP Milan

Updates from the Secretariat

The Scientific Impetus for Action

The Role of Nature
  - Sandeep SENGUPTA | Global Coordinator, Climate Change Portfolio, IUCN

Business Commitment

Financing Climate Action

Key Expectations for COP 26 from a Civil Society Perspective

Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)
Developments from Pre-COP Milan
Updates from the Secretariat
The Scientific Impetus for Action
The Role of Nature

Business Commitment
- Maria MENDILUCE | Chief Executive Officer, We Mean Business

Financing Climate Action
Key Expectations for COP 26 from a Civil Society Perspective
Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
María MENDILUCE
Chief Executive Officer
We Mean Business
AGENDA

Welcome and Introduction

The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)

Developments from Pre-COP Milan

Updates from the Secretariat

The Scientific Impetus for Action

The Role of Nature

Business Commitment

Financing Climate Action
- Eric USHER | Head, UN Environment Programme Finance Initiative

Key Expectations for COP 26 from a Civil Society Perspective

Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)
Developments from Pre-COP Milan
Updates from the Secretariat
The Scientific Impetus for Action
The Role of Nature
Business Commitment
Financing Climate Action

Key Expectations for COP 26 from a Civil Society Perspective
  - Joie CHOWDHURY | Program Coordinator, Environment & ESCR, International Network for Economic, Social and Cultural Rights

Fixing Our Climate: Green Hydrogen Initiative
Discussion
Closing
Joie CHOWDHURY
Program Coordinator, Environment & ESCR, International Network for Economic, Social & Cultural Rights
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)
Developments from Pre-COP Milan
Updates from the Secretariat
The Scientific Impetus for Action
The Role of Nature
Business Commitment
Financing Climate Action
Key Expectations for COP 26 from a Civil Society Perspective

Fixing Our Climate: Green Hydrogen Initiative

- Vaitea COWAN | Co-Founder, Enapter – Earthshot Prize Winner (“Fix Our Climate”)

Discussion
Closing
Vaitea COWAN
Cofounder of Enapter, one of the winners of the Earthshot Prize 2021
Why do we need green hydrogen?

Less than 20% of global final energy is consumed in the form of electricity (electrons).

More than 80% is consumed in the form of molecules, i.e. fuels and gases.

While the share of electrification will rise, we will need green molecules to fully flip global warming. Green hydrogen is the only scalable option.

1 Source: IEA
Our secret sauce

The strengths of our AEM Electrolysers:

- Combining the best of trad. Alkaline and PEM technology
- Low-cost materials and setup
- Top efficiency
- Easy to install and handle
- Low OPEX
- Strong patents granted, more pending

Water travels from the anode half-cell through the membrane.

Hydrogen is produced at the dry cathode and released via the gas diffusion layer.

OH⁻ moves back to the anode via the membrane.

Oxygen is produced from OH⁻ at the anode and released via the gas and liquid diffusion layer.
Massive price reduction through commodification at scale
STANDARDISATION AND MASS PRODUCTION

Massive price reduction through commodification at scale
Modular AEM cores: compact to scale
166 customers in 40 countries to date

Many more here
Hydrogen use cases are endless

Alternative Protein, Simplified

Deep Branch’s proprietary CO₂-to-protein process directly utilises clean CO₂ and hydrogen to generate Proton™, a single-cell protein (SCP) optimised for animal nutrition. Sign up to learn why Proton™ is transforming sustainable animal feed.
Enapter’s rapid growth

WHERE WE ARE TODAY

2017 – Our first building in Pisa. We renovated it in 2018, now exclusively used for R&D

2019 – Additional building commissioned for serial production

2020 – Further building acquired in Sep 2020 for R&D extension with 8 new laboratories, new testing area and an ISO cleanroom

2021 – Building acquired in December 2020 to scale up chemical and stack production
Planned mass production in Saerbeck
Disrupt and decentralise
AGENDA

Welcome and Introduction
The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)
Developments from Pre-COP Milan
Updates from the Secretariat
The Scientific Impetus for Action
The Role of Nature
Business Commitment
Financing Climate Action
Key Expectations for COP 26 from a Civil Society Perspective
Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
OPEN DISCUSSION
AGENDA

Welcome and Introduction

The UK Presidency of the 26th Conference of the Parties to UNFCCC (COP26)

Developments from Pre-COP Milan

Updates from the Secretariat

The Scientific Impetus for Action

The Role of Nature

Business Commitment

Financing Climate Action

Key Expectations for COP 26 from a Civil Society Perspective

Fixing Our Climate: Green Hydrogen Initiative

Discussion

Closing
THANK YOU

H.E. Amb. Simon MANLEY
Permanent Representative of the United Kingdom to the United Nations Office, WTO, and other international organizations in Geneva

H.E. Amb. Gian Lorenzo CORNADO
Permanent Representative of the Italian Republic to the United Nations Office and other international organizations in Geneva

Ovais SARMAD
Deputy Executive Secretary UNFCCC

Valérie MASSON-DELMOTTE
Co-Chair, Working Group I, IPCC

Sandeep SENGUPTA
Global Coordinator Climate Change Portfolio, IUCN

María MENDILUCE
Chief Executive Officer We Mean Business

Eric USHER
Head, UNEP Finance Initiative

Joie CHOWDHURY
Program Coordinator, Environment & ESCR, Int'l Network for Economic, Social & Cultural Rights

Vaitea COWAN
Cofounder of Enapter, one of the winners of the Earthshot Prize 2021

Bruno POZZI
Director, Europe Office, UNEP Moderator
Thank you for joining.

For any further questions, please email: andrew.pickens@fcdo.gov.uk

Register for the next pre-COP26 event in Geneva:

“From Risk to Resilience: Accelerating Adaptation Action at COP26”
25 October, 16:00-17:30 CEST, Online

tiny.cc/COP26Adapt
Nature-based Solutions & CITIES

25 OCTOBER 2021 | 15.00 CEST

NEXT SESSION tiny.cc/NbS25Oct
UN CLIMATE CHANGE CONFERENCE UK 2021

IN PARTNERSHIP WITH ITALY

BRIEFING AHEAD OF COP26

UPDATE ON PREPARATIONS FOR THE UN CLIMATE CHANGE CONFERENCE

21 OCTOBER 2021 | 09.30-11.00 CEST

Palais des Nations Room XXVI & Online

http://tiny.cc/COP26gen