## Climate Chatter Carbon Credits & Carbon Pricing in Asia Pacific 27 May 2020







## Welcome to our Climate Chatter - Carbon Credits & Carbon Pricing in Asia Pacific

- Default audio setting: mute on joining
- Questions via the Question box are welcome at any time
  - Technical support: we will aim to resolve ASAP
  - Topic-related questions for the discussion: Q&A at the end. If we cannot answer your question in the Q&A we will get in touch via email
- Many of us are broadcasting from our homes. Please bear with us in case of technical issues



## Carbon offsetting is essential to tackling climate change

If the world is to achieve net-zero emissions, then offsets are part of the plan



World's carbon markets grow 34% in value to \$215 billion in 2019 -report

> carbon-pulse.com/90631

In a report published Wednesday, the company said the value of almost every major carbon market worldwide had increased markedly year-on-year, in spite of overall trading volumes dipping by some 370 million tonnes or 4% to 8.73 billion tonnes.



ENVIRONMENT JANUARY 25, 2020 / 1:43 AM / 4 MONTHS AGO

Global carbon trading turnover at record \$214 billion last year: research



### Who We Are

South Pole helps clients address climate change impacts, while mitigating risk and creating value on their sustainability journey



### **Your Panel**



Business Development Manager - Asia South Pole



South Pole





## Climate Ambition and Voluntary Carbon Market Trends in Asia Pacific





## **Commitments by country in Asia**

Carbon reduction goals

Malaysia

**45%** cut in emissions based on 2005 levels by 2030

Indonesia 29% cut in emissions by 2030

Thailand

20% cut in emissions based on 2005 levels by 2030 India

**33–35%** cut in emissions based on 2005 levels by 2030

Japan 26% cut in emissions based on 2013 levels by 2030

**China 60-65%** cut in

emissions based on 2005 levels by 2030 (by GDP)

Australia 26–28%

cut in emissions based on 2005 levels by 2030 Singapore

**36%** cut in emissions based on 2005 levels by 2030

New Zealand

**30%** cut in emissions based on 2005 levels by 2030

# What's happening to countries' financial systems in Asia Pacific?

Some examples of environmental governance and disclosure

Growing commitments across APAC stock exchanges, with trends towards ESG and climate risk disclosure led by Hong Kong:

- **Hong Kong** listed companies display sustainability credentials
- **China** listed companies must display ESG status
- **Singapore** SGX listed companies must integrate ESG
- Australia ASX listed companies encouraged to report on material climate risks
- Integration of sustainability issues into green regulation and stock exchanges also happening in Indonesia and Thailand



### **Climate Ambition - Net Zero**

Big business, investors & governments

Supply chain impact of Net Zero & 2 degree aligned companies in Asia Pacific









**Asset Owner and bank commitments** 

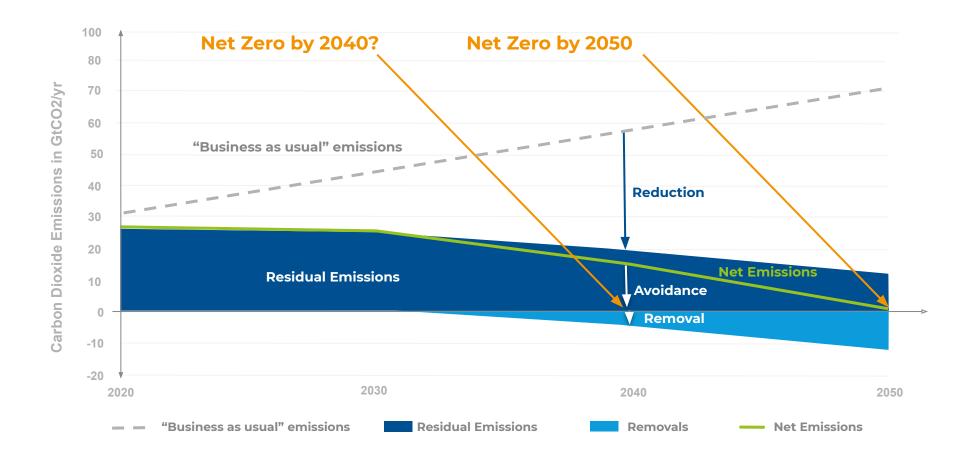








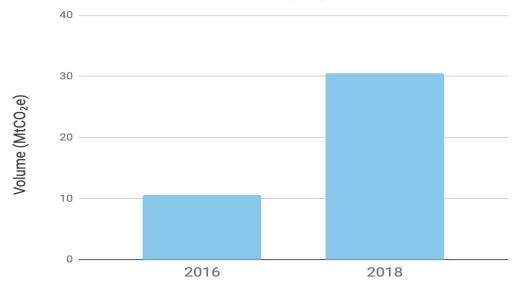
### Visualising Net Zero



## **Trends in the Voluntary Carbon Market**

Nature-based solutions (NbSs)

Volume of offsets from REDD+ projects: 2016 vs. 2018



(Source: Ecosystem Marketplace (2019), Financing Emissions Reductions for the Future)

Protect,
Sustainably manage &
Restore

natural or modified ecosystems (...) providing

human well-being andbiodiversity benefits



## Carbon offsets as a SDG conveyor

Environmental SDGs are the foundation on which social and economic progress is built



## What's happening in the voluntary space?



We are currently witnessing a surprisingly optimistic response to a huge economic downturn

### Market movement

- Asset owners
- Large multinationals in industries without many immediate carbon reduction technologies

### **Mandates**

- Market assessments on offsets and integration of net zero strategies
- Local impact vs economic impact
- Permanent sequestration
- Long term offtake







### **Carbon Market Overview**

Global corporate support for climate action is increasing

### **Carbon Market Size and Trajectory**<sup>1</sup>:

- Offset since 2005: Over 437.1 million tonnes CO<sub>2</sub>e
- Global Offset 2018: 98.4 million tonnes of CO<sub>2</sub>e
- 17% of companies use offsetting as part of their carbon reduction strategy
- Nearly ¼ of all Fortune 500 global companies have made a public commitment that they are, or by 2030 will be, carbon neutral <sup>2</sup>

**Note:** supply/demand figures come from listed publications or South Pole's own data points. Most figures are pre-COVID.

Major public/privately held carbon credit buyers:



















Interface





<sup>&</sup>lt;sup>2</sup> Carbon neutrality is achieved by calculating a carbon footprint, and reducing it to zero through a combination of in-house efficiency measures and supporting external emissions reduction projects (i.e. offsetting)

## **Carbon Pricing in Asia Pacific**





## What's happening in Asia?

Carbon pricing activity is growing

\_\_\_\_\_ In Force \_\_\_\_\_ Under Consideration

### China

- 8 pilot ETS's
- national ETS evolving covering +3 billion CO2 emissions.
- Prices mostly **below \$5**

### **South Korea**

- **Phase III** of ETS will begin in **2021**
- Allowance trading will expand
- Prices above \$15
- Offsets allowed with restrictions

### Singapore:

- Carbon tax **since 2019** with prices at **\$5**
- Expected to eventually include offsets, or shift to carbon market

### Indonesia:

- ETS plan to be in **operation by 2024**.
- Stakeholder consultation and draft plans in place

#### Vietnam:

- Exploring ETS and carbon tax.

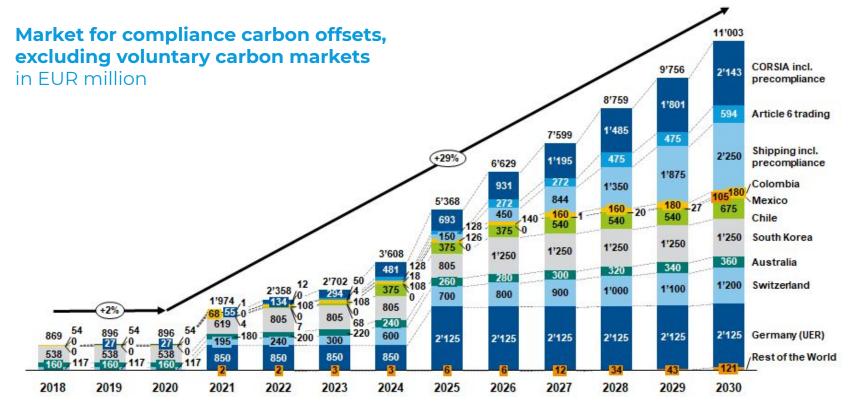
### **Thailand:**

 Voluntary system in place, carbon market under development.

### Taiwan:

ETS under development since 2017.

## Context: Many Compliance Markets accept or are based on Project Certificates



Source: South Pole, based on various publications

# Carbon Offsetting and Reduction Scheme for International Aviation (CORSIA)



### **Overview**

- Enforces carbon neutral growth for the aviation sector from 2020 on
- Likely to increase carbon offset demand
- Estimation that airlines will need to offset ~2.5 billion tons of CO<sub>2</sub> from 2021–2035 to comply with CORSIA



### Country participation

- Phases of Country participation in CORSIA
  - Voluntary from 2021–2026
  - Mandatory from 2027–2035 with very few exceptions

### **Intended APAC participation**

1. Australia

6. New Zealand

11. Thailand

2. Indonesia

**7.** Papua New Guinea

3. Japan

8. Philippines

**4.** Malaysia

9. Singapore

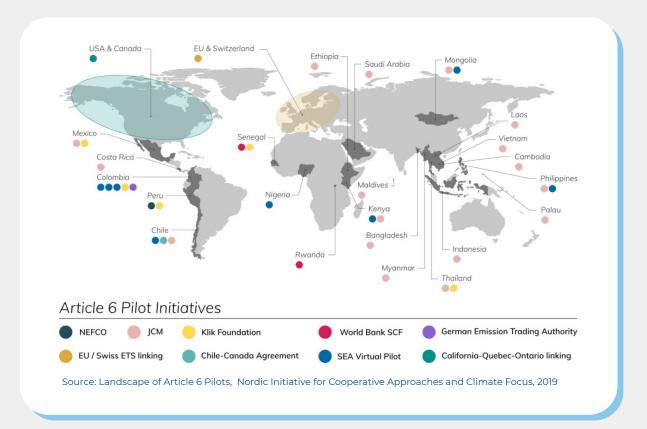
**5.** Marshall Islands

10. South Korea



## **Article 6 pilots in Asia**

- There are several
   Article 6 pilots
   across Asia.
- 58% of existing carbon market projects in Asia could potentially qualify under Article 6



## **Article 6 pilots in Thailand**

The SHIFT Project: an Article 6 pilot promoting electric vehicles in Thailand



### **SHIFT - Project**

#### Aim:

- Reduce transport emissions
- Accelerate investment into e-bikes and infrastructure in Thailand

#### Means:

- ITMO financing
- Supporting Thai
   government's commitment
   to e-mobility & climate
   policy targets.

# ReadSmith

# Article 6 of the Paris Agreement – Impact on supply & demand

**Peter Zaman** 

**Reed Smith** 



## Paris Agreement market mechanisms

#### Article 6.2

- · Cooperative Approaches (CA) involving at least two Paris Agreement parties
- Transfer of ITMOs (Internationally Transferred Mitigation Outcomes)
- Used towards meeting NDCs
- Unlimited scope in terms of types of activities that can qualify as a CA

#### Article 6.4

- Establishes the Sustainable Development Mechanism (SDM) generating Art 6.4 credits.
- Centrally managed by the Secretariat for the UNFCCC
- Limited in scope to mitigation activities
- Unlike CDM, any country can be the host of an SDM activity

Once operational, it is envisaged that CA or the host countries of SDM, will create supply of ITMOs and Art 6.4 credits to countries that need credits to meet their PA, NDC obligations.

## The Inside NDC / Outside NDC debate

- Every 5 years, countries must publish a Nationally Determined Contribution ("NDC")
- Each NDC must increase in scope (greenhouse gases) and coverage (sectors and sources) every 5 years
- The question is, in order to qualify for CA or SDC, does the scope and coverage of the activity have to be Inside the NDC of the host country, or can it also be Outside NDC?
- Question resolved by the 'Article 6 Guidelines' hopefully by a date TBC in 2021 at COP26 in Glasgow
- If Article 6 activity must be from scope and sectors Inside NDC only, then any potential project activity that is Inside NDC become essentially an asset for that host country because of their potential to be activities under CA or SDM.

## The Inside NDC / Outside NDC debate

- Both mechanisms at inter-governmental level SDM allows for private sector participation but CA is silent. Past experience says, access to SDM or CA will be though government approval process (e.g. LOA under the CDM)
- Current draft of the Art 6 Guidelines contemplate that there may be a category of Mitigation Outcomes used towards Other International Mitigation Purposes (e.g. ICAO)
- So what is to happen to voluntary projects that currently sit is areas covered by the NDCs once the NDC periods begin from 2021?
  - At a minimum, voluntary projects that fall within a host country's NDC will be subject to host country approval process and monitoring and reporting
  - Nationalisation risk exists where a country wishes to have full control of its carbon inventory (e.g. China during the years of the CDM).

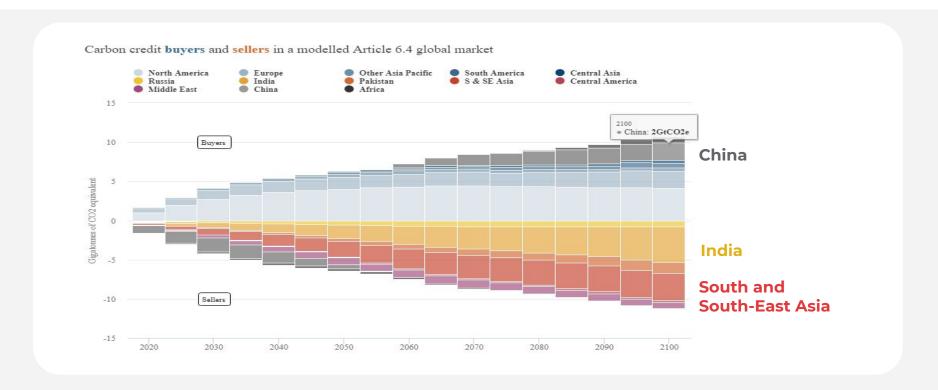
## What markets may look like

	Outside Paris Agreement	
Inside NDC	Outside NDC	
Cooperative Approaches (CA)	Voluntary Markets (VCS, GS, CCB etc.) ICAO/CORSIA	Voluntary Markets [ICAO/CORSIA?]
Sustainable Development Mechanism (SDM)	[CA?] [SDM?]	[

## What markets may look like (longer term)

Inside Paris Agreement	Outside Paris Agreement	
Inside NDC	Outside NDC	
Cooperative Approaches (CA) Sustainable Development Mechanism (SDM)	Voluntary Markets (VCS, GS, CCB etc.) ICAO/CORSIA [CA?] [SDM?]	Voluntary Markets [ICAO/CORSIA?]

## Net buyers versus net sellers



Reed Smith Source: Carbon Brief

## **Q&A** session



## **Upcoming Climate Chatter**

Greenhouse Gas Calculation & Assurance

Date: 9th June

Building resilient supply chains

Date: 18th June

More will be announced shortly...





More information: <a href="https://www.southpole.com/climate-chatter">https://www.southpole.com/climate-chatter</a>

## Thank you for joining us!

### Feel free to get in touch



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