Information on UNFCCC activities regarding GHG inventory review and other submissions

Tomoyuki Aizawa, UN Climate Change Secretariat 25 April 2018, Sofia, Joint TFEIP/EIONET Meeting



UNFCCC – Secretariat of United Nations Framework Convention on Climate Change

□ Kyoto Protocol, 1997 & Doha Amendment, 2014

□ Paris Agreement, 2015



- intergovernmental negotiations
- constituted bodies
- technical expertise
- Data Compilation and analysis of data on climate change

Ultimate Objective of the Convention

...stabilize GHG concentrations in the atmosphere at a level that will prevent dangerous human interference with the climate system."



MRV - measurement, reporting and verification

- Mostly under Convention & Kyoto Protocol
 - + Nationally Determined Contributions under Paris Agreement.
- Two groups of Parties:
 - □ Annex I Parties (developed countries)
 - □ Non-Annex I Parties (developing countries).
- Different obligations:
 - Methodological basis (IPCC guidelines)
 - □ Content & frequency of reporting and review
 - Conditional on funding (Non-Annex I Parties)
 - □ Rigorous review process (Annex I Parties)

The Paris Agreement (Art. 13) and the Paris Agreement Work Programme (PAWP)









GHG Inventory – annual submissions:

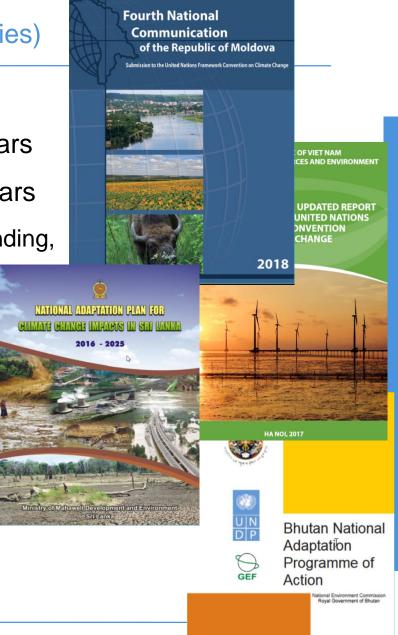
- Based on official data
- Data in formatted tables (CRF)
- □ Methodological report (NIR)
- □ KP: additional information (KP-LULUCF, SEF tables)
- National Communication (NC) every 4 years
- Biennial Report (BR) every 2 years
 - Delicy-related info (mitigation, adaptation, funding, etc.)
- Methodological basis 2006 IPCC guidelines





MRV – for Non-Annex I Parties (153 Parties)

- Only under the Convention
- National Communication (NC) every 4 years
- Biennial Update Report (BUR) every 2 years
 - Policy-related info (mitigation, adaptation, funding, and capacity building needs.)
 - Depending on funding
- GHG inventory
 - Less detailed, included in NC/BUR
 - □ Flexibility to use the Revised 1996 IPCC GL
- National Adaptation Plan (NAP)
- National Adaptation Programme of Action (NAPA) - LDCs





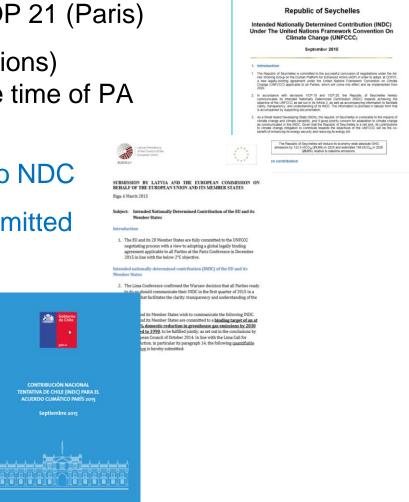
MRV – for All Parties under Paris Agreement (174 Parties)

INDC (Intended Nationally Determined Contributions)
 Parties communicated them before COP 21 (Paris)

NDCs (Nationally Determined Contributions)
 Parties to communicate 1st NDC at the time of PA ratification

- □ 150 Automatic conversion of INDC to NDC
- □ 18 Revisions to INDCs or NDCs submitted

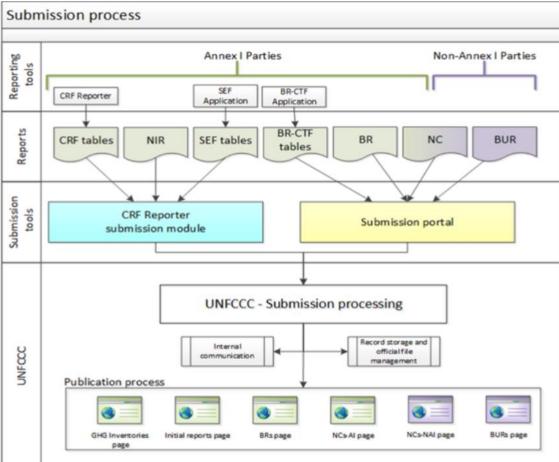
□ 6 - Parties currently revising NDCs





Reporting and review of GHG information: Data Process

- Data collection MRV, mandates
- Data analysis status reports; assessment reports; aggregate GHG info; compilation and accounting reports; etc.
- Data management processing by internal tools:
- Portal & Data Warehouse
- Review process
- Data dissemination BR DI; GHG DI; webpages; cooperation agreements with FAO, IEA, WRI





GHG Inventory review

- Review cycle under the second commitment period of KP has started in 2016
- The 2016 review cycle (Initial Review, 2015 and 2016)
 - □ 10 in-country review
 - □ 10 Centralized Review (31 Parties)
 - □ 2 desk Review

(5 Parties)



- Initial reviews (reviews of the report to facilitate the calculation of the assigned amount): 37 Parties reviewed in 2016 and 2017
- The 2017 review cycle covered only 22 Parties due to lack of resources (supplementary funds)
 - □ 6 in-country review
 - □ 3 Centralized Review (12 Parties)
 - □ 2 desk Review (4 Parties)
- The 2018 review cycle will cover 22 Parties again, since no additional supplementary funds are available and the core only covers 22 Parties



GHG Inventory review (challenges)

- Positive improvements in recent years
 - ♦ Efficient use of the review week
 - Improved templates, supported by an enhanced iVTR version
- Availability of resources
 - ♦ Limited resources to support the reviews
 - Core budget only supporting 22 reviews
 - Demands from other processes: BUR, REDD+ forest reference levels, NC/BR: experts, review officers
- Desk reviews
 - The number of issues identified and the number of additional issues is still unexpectedly high given the shortened scope of this type of reviews (focus on recalculations and previous recommendations)
 - ♦ Difficult to find and engage experts in such reviews





Tools

□ Review Tools are developed for supporting GHG inventory review

GHG Emissions Locator

- □ The GHG Locator is an off-line tool that allows browsing GHG inventories.
- Its aim is to facilitate the work of ERTs and review officers during the various review processes

Comparison Tool

- The Comparison Tool compares two submissions of the same Party
- Let allows the ERT to identify quickly recalculations/changes from submission of a Party
- User Interface is similar to Locator, and Navigation of categories are same as Locator

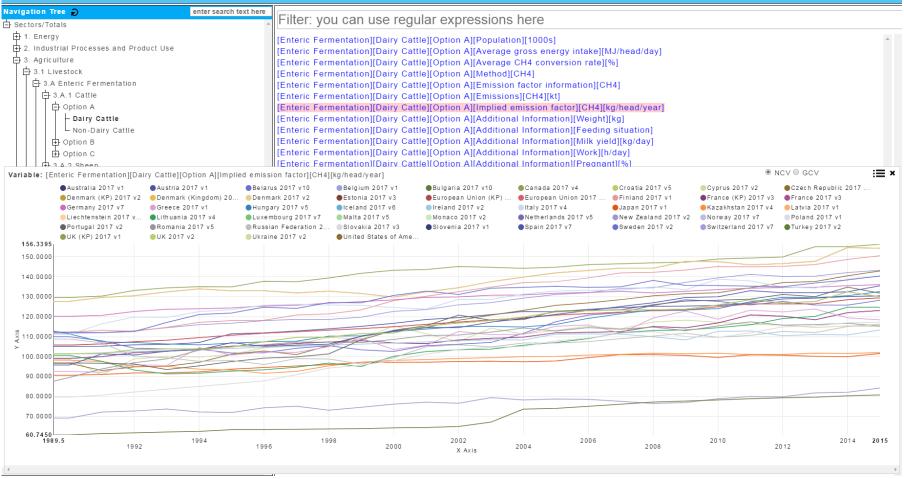
Other Tools

- GHG Inventory data Interface
- BRCTF (Biennial Report Common Tabular Format)
- BRDI (Biennial Report Data Inter Face)
- NDC registry (National Determined Contribution)



Tools GHG Emissions Locator

Sectors/Totals /3. Agriculture /3.1 Livestock /3.A Enteric Fermentation /3.A.1 Cattle /Option A /Dairy Cattle





Tools Comparison Tool

Party Cyprus	Submis ▼ CYP 2	sions 2016 v14 →← 0	CYP 2017 v2	Base year		t two years 👻	All values	•				
	y trial Processes	and Product U	se		•][Forest Land]	[Forest Land][Carbon stock c	× ¬
> 3. Agrico< 4. Land	ulture Use, Land-Use (hange and Fo	restry				t Land][Carbor g biomass][Ne	-		[Forest Land][Carbon stock c	change
4	Forest Land (II) Emissions a nanagement of (and rewetting a	and other	•	-					
4	(II) Emissions a			and rewetting a	and other 1993	1994	1995	1996	1997	1998	1999	2000
> 4 m	(II) Emissions a nanagement of o	organic and m	ineral soils				1995 33.80	1996 35.57	1997 38.52	1998 43.98	1999 40.52	2000
> 4 m 	(II) Emissions a nanagement of o Base year	organic and m 1990	ineral soils 1991	1992	1993	1994						43.45
> 4 n	(II) Emissions a nanagement of o Base year 26.71	26.71	1991 32.49	1992 33.80	1993 31.63	1994 36.44	33.80	35.57	38.52	43.98	40.52	



Tools GHG Inventory Data Interface

United Nati Framework Climate Cha	Convention on													
Process	Greenhouse Gas Inventory D	ata - Comparison	by Gas 🕅											
GHG Data - UNFCCC	Greenhouse Gas Inventory Data - Comparison by Gas 🕐													
Time series - Annex I	Please select two different Parties for co	mparison	_											
Detailed data by Party	Australia		•											
Comparison by Category	European Union (Convention)		•											
	Please select Category													
Comparison by Gas	Total GHG emissions without LULUCF		•											
GHG profiles	Please select two different years for com	parison												
Annex I	Base year													
Non-Annex I	1990		•											
Global map - Annex I	Query results for — Parties: Australia and	l European Union (Conve	ention) — Years: Base	year and 1990 — Catego	ry: Total GHG emissions	without LULUCF — Unit:	kt CO2 equivalent							
	Export to Excel Export to CSV Printer Fr	endly Version												
	Gas 🔶		Australia			European Union (Convention) to Australia Difference								
		Base year	1990	Difference	Base year 💧	1990	Difference	Base year 💧	1990					
	CO2	278,352.79	278,352.79	0.00%	4,457,424.17	4,457,424.17	0.00%	1501.36%	1501.36%					
	CH4	119,920.32	119,920.32	0.00%	728,408.46	728,408.46	0.00%	507.41%	507.41%					
	N2O	15,327.33	15,327.33	0.00%	384,989.38	384,989.38	0.00%	2411.78%	2411.78%					
	HFCs	1,424.68	1,424.68	0.00%	29,125.49	29,125.49	0.00%	1944.35%	1944.35%					
	PFCs	4,607.01	4,607.01	0.00%	25,870.24	25,870.24	0.00%	461.54%	461.54%					
	Unspecified mix of HFCs and PFCs	NO	NO	_	5,840.68	5,840.68	0.00%	_	_					
	SF6	211.02	211.02	0.00%	11,002.95	11,002.95	0.00%	5114.21%	5114.21%					
						the second second			-					



Tools

Biennial Report Common Tabular Format

1	Table 5				

Summary of key variables and assumptions used in the projections analysis"

	Key underhöug as	metions			Hators	- A			Projected				
i	Accumption	2142	1990	1995	2990	2945	2010	2011	2015	2020	2025	2030	2035
	GDP growth rate (2)	N	1.50	3.00	3.70	2.30	1.90		1.60	1.95	1.15	2.59	1.19
	Population (2)	threatands	5,135.00	5,216.00	5,539.00	5,411.00	5,535.00		5,860.00	5,800.00	6,000.00	6,100.00	6,300.60
	Population growth (3)	76	0.10	0.37	0.30	0.24	0.44		0.19	0.35	0.67	0.33	0.00
	International of price (4)	USD / bor	25.73	17.62	28.50	54.52	79.50		45.30	70.74	81.72	92.43	92.43
ŝ	International coal price (5)	USD / boe	10.25	18.75	8.78	15.30	23.58		14.09	14.46	15.83	16.93	16.93
ĩ	International gas price (6)	USD / boe	NA	10.82	15.72	42.82	38.05		29.47	34.59	47.86	58.84	58.84
ļ	EU ETS Carbon price (7)	EUR/2010/3CO	NA	NA.	NA	22.00	15.88		7.79	5.97	7.57	10.07	10.07

DNK BR3 v1.0

14 * Parties should include key underlying assumptions as appropriate

15 * Parties should include historical data used to develop the growthense gas projections reported.

17 Custon Footnotes

()* In general the starting point for the GHG projection in the latest historic GHG investory with the finane delevelopment projected on the basis of the projected parameters only such as projected GDP, projected fiel prices etc. (i.e. not historical parameters). Therefive the historic parameters shown here for 1990-2010 are shown only to follow the connendation from the review of Denmark's BR2, although this is not in line with the purpose of the table. "include historical data used to develop the greeshouse gas III projection reported"** The key variables also here for 2020-2021 are used for the 'with existing measures' (WEM) scenario. The results are shown in table 6(a)

(2)* In general the starting point for the GHG projection is the latest historic GHG investory with the flature delevelopment projected on the basis of the projected parameters on rach as projected GDP, projected fairl prices etc. (i.e. sur historical parameters). Therefore the historic parameters shows here for 1990-2010 are shown only to follow the comendation from the review of Denmark's BRJ, although this is not in line with the purpose of the table. "include historical data used to develop the greenhouse gas 19 projections reported.** The key variables shown here for 2020-2033 are used for the 'with existing measurer' (WEM) scenario. The results are shown in table 6(a)

(2) * In general the starting point for the GHG projection is the latest historic GHG investory with the fature delevelopment projected on the basis of the projected parameters only such as projected GDP, projected fiel prices etc. (i.e. not himstical parameters). Therefive the historic parameters shown here for 1990-2010 are shown only to follow the commendation from the review of Denmark's B82, although this is not in line with the surpose of the table, "include historical data used to develop the arendosuse gas 20 protections reported"** The key variables shown here for 2020-2015 are used for the with existing measures' (WEM) scenario. The results are shown in table 6(a).

(4)* Is general the starting point for the GHG projection in the latest historic GHG investory with the future delevelopment projected on the basis of the projected parameters only. unch as projected GDP, projected hel prices en. (s.e. not binnic ad parameters). Therefore the binnic parameters alones here the 1990-2010 are shown only to fidew the • • ... Table 1(d)(s.3 Table 2(s) Table 3 Table 3 Table 4 Table 4(a)(2,0)

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United Nations Framework Convention on

Home

Climate Change

Biennial Reports Data Interface (BR-DI) Home

Progress towards achiving the

larget (mitigation measures) Reporting on progress

GHG Inventory data

GHG projections

GHG projections **Financial contributions Financial contributions**

Technology support

assumptions

summary Capacity building

target

Information on reduction

Decision 19/CP 18 adopted the biennial report common tabular format (BR CTF) for the "UNFCCC biennial reporting guidelines for developed country Parties" The BR CTF, as contained in the annex to decision 19/CP 18, consists of 27 tables designed to facilitate the provision of information by developed country Parties on:

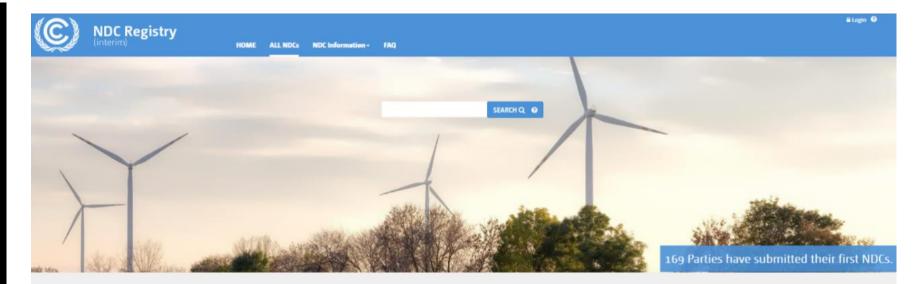
- Greenhouse gas (GHG) emission trends,
 Description of quantified economy-wide emission reduction target;
- · Progress in achievement of this target,
- · GHG projections; and
- · Provision of financial, technological and capacity building support

To facilitate flexible search queries of the BR CTF data submitted by developed country Parties, the secretariat has launched the Biennial Reports Data Interface (BR-DI) application. The BR-DI allows the BR CTF data to be searched via user-defined gueries. within any of the ten categories. Within each of these ten categories, multiple search options are available that allow users to refine their queries by various criteria. In an effort to streamline the functionalities of applications within the secretariat, users searching for GHG inventory data and GHG projections are automatically redirected to the "flexible GHG data queries" page

Note: The data presented in the BR-DI has been extracted from the BR CTF tables submitted by developed country Parties, and every effort has been made to ensure the accuracy and consistency of the information. Users may wish to read the full Biennial Reports and the associated BR CTF tables for more detailed and comprehensive Party information at. http://unfccc.int/national_reports/biennial_reports_and_iar/submitted_biennial_reports/items/7550.php

Biennial Report Data Interface





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UN Climate Change Secretariat http://cop23.unfccc.int/http://unfccc.int/2860.php

GHG Data Interface

http://di.unfccc.int/time_serieshttp://di.unfccc.int/detailed_data_by_party

□ NDC Registry

http://www4.unfccc.int/ndcregistry/Pages/Home.aspx



