

Flexibility in the ETF

**October 23, 2019
PATPA APR in Lebanon**

**JAE H. JUNG
Ministry of Foreign Affairs, Republic of Korea**

[MPG] II. National inventory report of anthropogenic emissions by sources and removals by sinks of greenhouse gases (14)

C. Methods : **2. Key category analysis** Para. 25(2), **4. Uncertainty assessment** Para. 29(2), **5. Assessment of completeness** Para. 32.(2), **6. Quality assurance/quality control** Para. 34(1), Para. 35(1)

E Reporting guidance : **2. Sectors and gases** Para. 48(2), **3. Time series** Para. 57(2), Para. 58(2)

[1] Notation Keys : Assessment of completeness(NE), Sectors and gases

* NO(Not Occurring), NE(Not Estimated), NA(Not Applicable), IE(Included Elsewhere), C(Confidential)

[2] Footnotes : Key category analysis, Time series

**[3] Narrative format elsewhere : Uncertainty assessment, QA/QC,
("applicable to all flexibility Para.")**

[MPG] III. Information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement (5)

D. Mitigation policies and measures, actions and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contributions under Article 4 of the Paris Agreement Para. 85(1)

F. Projections of greenhouse gas emissions and removals Para. 92(1), Para. 95(2), Para. 102(1)

[1] Notation Keys : Estimates of expected and achieved GHG emissions reductions for its actions, policies and measures(NE), Projection time series

*** NO(Not Occurring), NE(Not Estimated), NA(Not Applicable), IE(Included Elsewhere), C(Confidential)**

[2] Footnotes : Projection time series

[3] Narrative format elsewhere : (“applicable to all flexibility Para.”)

	BR/IAR	BUR/ICA
Entities	AI	NAI
M•R	<p>(1) Information on GHG emissions and trends</p> <hr style="border-top: 2px dashed red;"/> <p>(2) Quantified economy-wide emission reduction target</p> <p>(3) Progress in achievement of quantified economy-wide emission reduction targets and relevant information</p> <p>(4) Projections</p> <hr style="border-top: 2px dashed red;"/> <p>(5) Provision of financial, technological and capacity-building support to developing country Parties</p> <p>* BR + Common Tabular Format</p>	<p>(1) Updates of national GHG inventories</p> <hr style="border-top: 2px dashed red;"/> <p>(2) Mitigation actions</p> <ul style="list-style-type: none"> (a) Name and description of actions (b) Information on methodologies and assumptions (c) Steps taken or envisaged to achieve that action (d) Progress of implementation of the mitigation actions (e) Information on int'l market mechanism <hr style="border-top: 2px dashed red;"/> <p>(3) Finance, technology and capacity-building needs and support received</p> <p>* Parties are encouraged to use the CTF.</p>
	V	<p>(1) Technical Review</p> <p>(2) Multilateral Assessment</p>

Source : FCCC/CP/2011/9/Add.1, Annex I, III

Table 1(a)~(d) : **Emission Trend**(6 GHGs by Category)
- 6 GHGs by 7 categories + memo items

Table 2(a)~(f) : **Description of the Quantified Economy-Wide Emission Reduction Targets**
- Base year, Gas & sector covered, Metrics(GWP), Accounting for emissions and removals from LULUCF, Market-based mechanisms under the Convention(CERs, ERUs, AAUs, Carry-over units, Other market-based mechanisms, Any other information

Table 3 : Progress in achievement of the QEWERTs: information on mitigation actions and effects

Table 4(a)~(b) : **Reporting on progress**
- Contribution from LULUCF, Quantity of units from market-based mechanisms

Table 5 : Summary of key variables and assumptions used in the projections analysis
- population, household, GDP, energy price, and etc.

Table 6(a)~(c) : Information on updated GHG projections under ‘with measures’, ‘without measures’, and ‘additional measures’ scenarios
- by year, sector, GHG

Table 7 : **Provision of public financial support**

Table 8 : **Provision of technology development and transfer support**

Table 9 : **Provision of capacity-building support**

Source : FCCC/CP/2012/8/Add.3

Table 3

Progress in achievement of the quantified economy-wide emission reduction target: information on mitigation actions and their effects

<i>Name of mitigation action^a</i>	<i>Sector(s) affected^b</i>	<i>GHG(s) affected</i>	<i>Objective and/or activity affected</i>	<i>Type of instrument^c</i>	<i>Status of implementation^d</i>	<i>Brief description^e</i>	<i>Start year of implementation</i>	<i>Implementing entity or entities</i>	<i>Estimate of mitigation impact (not cumulative, in kt CO₂ eq)</i>	
									<i>20XX^f</i>	<i>2020</i>

Note: The two final columns specify the year identified by the Party for estimating impacts (based on the status of the measure and whether an ex post or ex ante estimation is available).

Abbreviations: GHG = greenhouse gas; LULUCF = land use, land-use change and forestry.

^a Parties should use an asterisk (*) to indicate that a mitigation action is included in the ‘with measures’ projection.

^b To the extent possible, the following sectors should be used: energy, transport, industry/industrial processes, agriculture, forestry/LULUCF, waste management/waste, other sectors, cross-cutting, as appropriate.

^c To the extent possible, the following types of instrument should be used: economic, fiscal, voluntary agreement, regulatory, information, education, research, other.

^d To the extent possible, the following descriptive terms should be used to report on the status of implementation: implemented, adopted, planned.

^e Additional information may be provided on the cost of the mitigation actions and the relevant timescale.

^f Optional year or years deemed relevant by the Party.

Table 5
Summary of key variables and assumptions used in the projections analysis^a

<i>Key underlying assumptions</i>	<i>Historical^b</i>							<i>Projected</i>				
	<i>1990</i>	<i>1995</i>	<i>2000</i>	<i>2005</i>	<i>2010</i>	<i>2011</i>	<i>...</i>	<i>...</i>	<i>2015</i>	<i>2020</i>	<i>2025</i>	<i>2030</i>

^a Parties should include key underlying assumptions as appropriate.

^b Parties should include historical data used to develop the greenhouse gas projections reported

Table 6(a)

Information on updated greenhouse gas projections under a 'with measures' scenario^a

	<i>GHG emissions and removals^b</i> <i>(kt CO₂ eq)</i>							<i>GHG emission projections</i> <i>(kt CO₂ eq)</i>	
	<i>Base year</i>	<i>1990</i>	<i>1995</i>	<i>2000</i>	<i>2005</i>	<i>2010</i>	<i>20XX^c-3</i>	<i>2020</i>	<i>2030</i>
<i>Sector^{d,e}</i>									
Energy									
Transport									
Industry/industrial processes									
Agriculture									
Forestry/LULUCF									
Waste management/waste									
Other (specify)									
<i>Gas</i>									
CO ₂ emissions including net CO ₂ from LULUCF									
CO ₂ emissions excluding net CO ₂ from LULUCF									
CH ₄ emissions including CH ₄ from LULUCF									
CH ₄ emissions excluding CH ₄ from LULUCF									
N ₂ O emissions including N ₂ O from LULUCF									
N ₂ O emissions excluding N ₂ O from LULUCF									
HFCs									
PFCs									
SF ₆									
Other (specify, e.g. NF ₃)									
Total with LULUCF^f									
Total without LULUCF									

Source : FCCC/CP/2012/8/Add.3

감사합니다
THANK YOU

jhjung19@mofa.go.kr / synerjae@gmail.com

