Mapping of the Intended Nationally Determined Contributions (INDCs) for the Arab countries: Key Issues and Financial Needs

Economic And Social Commission For Western Asia





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Introduction (1)

As requested for COP 21 in Paris on Dec 2015, more than **190 countries** have submitted their post-2020 climate action plans, or INDCs of wh. 157 were submitted before closing COP21-Paris on 12 Dec 2015, & the remaining 4 countries between 15 Dec 2015 & 4 Feb 2016.

Total Arab INDCs were submitted by 19 countries, 3 missed INDCs (Libya, Palestine & Syria). All the 19 INDCs were submitted between 5 June 2015 (MOR) & 25 Nov 2015 (KUW).

Introduction (3)

Based on a Matrix developed on the Arab INDCs

- What the Arab countries will do for mitigation and adaptation?
- it's important to understand what their different INDC choices mean.

2- Submission date of the 19 Arab INDCs

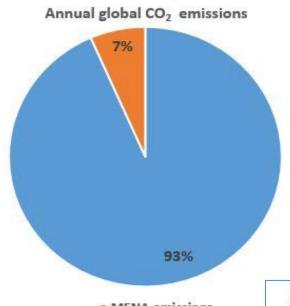
		Date of				
	Countries	Submission				
1	Morocco	6/5/2015 19:41				
2	Tunisia	9/16/2015 16:05				
3	Comoros	9/17/2015 13:08				
4	Lebanon	9/30/2015 9:39				
5	Mauritania	9/30/2015 11:27				
6	Jordan	9/30/2015 11:29				
7	Algeria	10/1/2015 19:25				
8	Oman	10/19/2015 13:53				
9	UAE	10/22/2015 16:25				
10	Djibouti	10/28/2015 11:09				
11	Saudi Arabia	11/10/2015 8:06				
12	Sudan	11/10/2015 10:08				
13	Iraq	11/12/2015 9:18				
14	Egypt	11/16/2015 14:54				
15	Somalia	11/17/2015 12:12				
16	Qatar	11/20/2015 11:19				
17	Yemen	11/23/2015 15:08				
18	Bahrain	11/24/2015 10:41				
19	Kuwait	11/25/2015 8:52				
<u>19 Arab countries* over 190 countries</u> (161 Parties)						

Total GHG Emissions including or excluding Land-Use Change &Forestry – LCUF

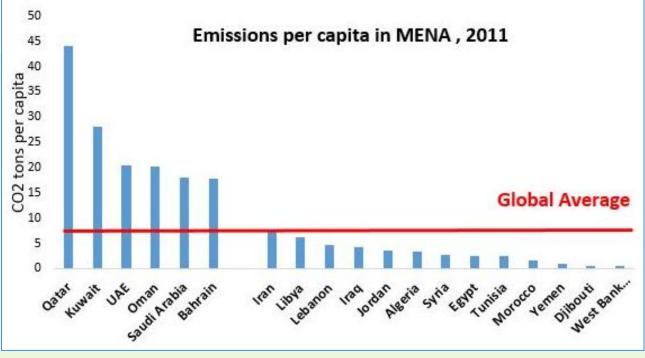
(MtCO2e)

	GHGs	GHGs	
	excl.	incl.	
	LUCF	LUCF	Year
	2012	2012	
Party	(MtCO2e)	(MtCO2e)	
₁ Morocco	0 71.44	72.51	2012
2 Tunisia	31.53	30.7	2012
3 Comoro	o.4	0.6	2012
4 Lebanoi	n 24.3 4	24.3	2012
₅ Mauritan	ia 10.64	11.16	2012
6 Jordan	27.42	27.42	2012
7 Algeria	187.33	189.08	2012
8 Oman	109.32	109.32	2012
9 UAE	216.26	216.04	2012
10 Djibout	i 2.58	2.58	2012
11 S. Arabi	a 526.97	526.97	2012
12 Sudan	148.62	177.35	2012
13 Iraq	257.09	256.44	2012
14 Egypt	288.19	287.9 7	2012
15 Somalia		_	
16 Qatar	85.25	85.25	2012
17 Yemen	7 - 1	29.84	2012
18 Bahrair	- 000		2012
19 Kuwait	202.5	202.4 7	2012
20 Libya	130.6	130.6	2012
21 Palestine	e		
22 Syria	73.76	72.5	2012
19 countrie	s 2457	2453	
WORLI) 44816	47599	
	5.5 %	5.2 %	

Share of the Arab countries Emissions







3- Mitigation contribution type

INCD contribution type could take different forms: GHG targets, Non-GHG targets, Actions or a combination of targets and actions:

- > 11 countries are fixed GHG target contributions framed as targeted outcomes in GHG terms.
- ➤ 7 countries are fixed a Non-GHG targets in their contributions in terms of specific, quantifiable, desired outcomes in energy efficiency, renewable energy, forestry or other sectors, & that are not expressed in terms of GHG emissions or emission reductions.
- > 7 countries are submitted Actions in their contributions that include intent to implement specific means of achieving GHG reductions, such as policies and projects.

2012 Total GHG Emissions (MtCO2e) source: WRI-CAIT & Mitigation target in the Arab INDCs

Country Date Submission		GHGs 2012 (MtCO2e)		Year	Mitigation Target Year		Target year	Implemetation period	Baseline year	
			GHGs excl. LUCF	GHGs incl. LUCF		Unconditional	Conditional			
1	Morocco	6/5/2015 19:41	71.44	72.51	2012	-13%	-32%	2030	2020-2030	BAU
2	Tunisia	9/16/2015 16:05	31.53	30.7	2012	-13% of CI	-41% Carbon Intensity	2030	2015-2030	2010
3	Comoros	9/17/2015 13:08	0.4	0.6	2012	-	-84%	2030	2020-2030	BAU
4	Lebanon	9/30/2015 9:39	24.34	24.3	2012	-15%	-30%	2030	n/a	BAU
5	Mauritania	9/30/2015 11:27	10.64	11.16	2012	-2.7%	-22.3%	2030	2020-2030	2010
6	Jordan	9/30/2015 11:29	27.42	27.42	2012	-1.5%	-14%	2030	until 2030	BAU
7	Algeria	10/1/2015 19:25	187.33	189.08	2012	-7%	-22%	2030	2021-2030	BAU
8	Oman	10/19/2015 13:53	109.32	109.32	2012	_	-2%	2030	2020-2030	BAU
9	UAE	10/22/2015 16:25	216.26	216.04	2012	a share of 24% clea	an energy (sectoral target)	2021	n/a	n/a
10	Djibouti	10/28/2015 11:09	2.58	2.58	2012	-40%	-60%	2030	n/a	BAU
11	S. Arabia	11/10/2015 8:06	526.97	526.97		-130 MtCO2 (annua		2030	2021-2030	BAU
12	Sudan	11/10/2015 10:08	148.62	177.35		1	fied; INDC mentions sector.	2030	2025-2030	n/a
13	Iraq	11/12/2015 9:18	257.09	256.44	2012	-1%	-15%	2035	2020-2035	BAU
14	Egypt	11/16/2015 14:54	288.19	287.97			fied; INDC mentions sectors		2020-2030	n/a
15	Somalia	11/17/2015 12:12	200.23	207.27		Pledges not quantified; INDC mentions action.		_	n/a	n/a
16	Qatar	11/20/2015 11:19	85.25	85.25	2012		fied; INDC mentions policie		2021-2030	n/a
17	Yemen	11/23/2015 15:08	29.84	29.84	2012	-1%	-14%	2030	2016-2030	BAU
18	Bahrain	11/24/2015 10:41	33.25		2012	Pledges not quanti	fied; INDC mention sectora	2035	2020-2035	
19	Kuwait	11/25/2015 8:52	202.5	202.47	2012	To avoid increasing	CO2 emission			BAU
20	Libya	NO	130.6	130.6	2012					
21	Palestine	NO								
22	Syria	NO	73.76	72.5	2012					
19 Arab countries*		2457	2453							
WORLD		44816	47599							
		5.5%	5.2%							

4- Sectors covered

The target fixed in the contribution covers All sectors excluding LULUCF, or including LULUCF) or Partial sectors :

- Seven countries (Algeria, Jordan, Kuwait, Lebanon, Mauritania, Morocco & Tunisia) are covered All sectors including Land-Use, Land-Use Change & Forestry (LULUCF).
- 2. Three countries (Djibouti, Egypt & Iraq) are covered All sectors excluding LULUCF.
- 3. Six countries covered Partial Sectors.
- 4. Two countries (Bahrain & UAE) didn't specify any sector.

5- Gases coverage

- ✓One country (Jordan) covers six Kyoto greenhouse gases.
- ✓ Eleven countries (Algeria, Comoros, Djibouti, Iraq, Lebanon, Mauritania, Morocco, Oman, Sudan, Tunisia & Yemen) indicate Partial gases covered by their INDCs.
- ✓ Seven countries (Bahrain, Egypt, KSA, Kuwait, Qatar, Somalia & UAE) didn't specify any gas covered by their contributions.

6- Conditionality of the INDCs

- ✓ Ten Arab countries (Algeria, Djibouti, Iraq, Jordan, Lebanon, Mauritania, Morocco, Sudan, Tunisia & Yemen) have submitted both Conditional & Unconditional measures (including mitigation/adaptation measures) while five from them (Bahrain, Comoros, Egypt, Oman & Qatar) have submitted only Conditional measures.
- ✓ Three countries didn't specify any Conditionality or Unconditionality (as Kuwait, UAE and Somalia).

7- Planned use of International market mechanisms

- ✓ Six countries (Egypt, Lebanon, Mauritania, Morocco, Sudan & Tunisia) will possibly use the international market mechanisms in their INDCs.
- ✓ One country (Jordan) declare no use of the international market mechanisms.
- ✓ Other remaining twelve countries didn't specify any statement.

Adaptation component of the INDC

In their adaptation components, Parties referred to actions in virtually every sector and area of the economy. First three priority areas were WATER, AGRICULTURE and HEALTH.

In a few cases, quantitative targets & goals were included as part of the description of the actions and measures.

ADAPTATION Component

A total of about US\$21 billion estimation

Seven countries quantified their financial needs for their adaptation measures included in their INDCs:

Morocco, Tunisia, Comoros, Djibouti, Sudan, Mauritania and Jordan.

Adaptation component/ Priority areas

In their adaptation components, Arab countries referred to actions in virtually every sector and area of the economy.

First three priority areas were water, agriculture & health as indicated in the Matrix.

9- Reference to SDGs

A few Parties referred to the UN MDGs & subsequent SDGs in defining their national goals.

Only 3 countries (EGY, JOR & SUD) mentioned the SDGs in their INDCs

10- Losses & Damage (Cost impacts linked to CC effects)

- ✓ Losses and damage associated with past and projected impacts of climate variability and change were reported by some Parties (Comoros, Djibouti, Yemen, ...).
- ✓ Projected loss &damage have been quantified by two Parties, for example in the form of absolute costs or annual loss of GDP. In Comoros, without ambitious measures, cost of impacts is estimated to 836 M\$ by 2050 representing of 130% of the present GDP.
- ✓Another Party (Djibouti) provided details on projected costs of CC impacts & how intended adaptation measures are expected to reduce the projected costs of impacts, leaving some residual damage, thus clearly making an economic case for investing in adaptation and disaster risk reduction (Djibouti: annual cost of the impacts linked to CC events is estimated depending on the scenario. It's likely to exceed 5 b\$ excluding natural catastrophes (in the case of an optimistic climate or 2C scenario) or 9b\$ (in the case of 4-5C scenario). Implementing adaptation measures would make it possible to anticipate the effects of CC. An investment of close to 1 b\$ would enable a reduction of the total costs of the impact by two, account taken of residual damage).

11- Estimation of the cost for implementation of the Adaptation/ mitigation measures in the Arab INDCs (in million \$)

9 countries estimate Cost of the implementation of the measures in their INDCs (Conditional & Unconditional measures)

Total cost of US\$ 186 billion for the 9 countries of which US\$ 168 billion for conditional measures (missed 5 countries ALG, LEB, IRQ, BAH & OMA)

While 9 Parties quantified their financial needs, others are missed or in the process or are planning to do so. Needs for finance were expressed either:

- as total quantified financial needs to implement mitigation & adaptation actions (with individual needs from \$79 million (SOM) to over \$73 billion (EGY).
- or **as specific adaptation finance needs**: **9 Parties** reported specific financial **needs for adaptation** (with individual needs from \$300 million (Comoros) to over \$9.4 billion (Mauritania).

Estimation cost for implementation of the adaptation/mitigation measures (in 1000 US\$)

	Country	Estmation cost** (x1000\$)	of which conditional	Adaptation	Mitigation		
1	Morocco	45000	35000	2500	42500		
2	Tunisia	19338	17596	1916	17422		
3	Comoros	675	608	300	375		
4	Lebanon	Not specified					
5	Mauritani a	18695	17577	9377	9318		
6	Jordan	9878	5157	4178	5700		
7	Algeria	Not specified					
8	Oman	0	0	0	0		
9	UAE	0	0	0	0		
10	Djibouti	6400	6300	1000	5400		
11	S. Arabia	0	0	0	0		
12	Sudan	12880	12880	1200	11680		
<u>13</u>	<mark>Iraq</mark>	Not Specified					
14	Egypt	73040	73040	Not specified	Not specified		
<i>15</i>	Somalia	79	79	Not specified	Not specified		
16	Qatar	0	0	0 0			
17 Yemen		Not specified					
18	Bahrain	0	0	0	0		
19	Kuwait	0	0	0	0		
Total of the \rab countries*		185985	168237	20471	92395		

MITIGATION

A total estimation of about \$93 billion.

SEVEN countries quantified their financial needs for their mitigation measures in their INDCs:

Morocco, Tunisia, Comoros, Mauritania, Jordan, Djibouti & Sudan.

12- INDCs revisable before 2020?

Six Arab countries mentioned in their INDCs to reserve the right to further elaborate on their INDCs and make additional submissions to account for their contributions before 2020:

- 1. Algeria to be adjusted when ratification
- 2. Comoros reviewable for improvement
- 3. Djibouti could be reevaluated in a dynamic process.
- 4. Mauritania envisaged to be update.
- 5. Morocco possibly to revise the scenario by 2020.
- 6. KSA reserve the right for further elaborate its INDC.













40 Y E A R S