



UPDATED NATIONALLY DETERMINED CONTRIBUTION



FIRST NATIONALLY DETERMINED CONTRIBUTION REPUBLIC OF INDONESIA



PRESIDEN
REPUBLIK INDONESIA

PENJELASAN
ATAS
UNDANG-UNDANG REPUBLIK INDONESIA
NOMOR 16 TAHUN 2016

TENTANG

PENGESAHAN *PARIS AGREEMENT TO THE UNITED NATIONS
FRAMEWORK CONVENTION ON CLIMATE CHANGE*
(PERSETUJUAN PARIS ATAS KONVENSI KERANGKA KERJA
PERSERIKATAN BANGSA-BANGSA MENGENAI PERUBAHAN IKLIM)

PARIS AGREEMENT DAN UPDATED NDC INDONESIA

Disampaikan dalam acara Pojok Iklim :
“Sinergi Energi dan Perubahan Iklim”, 30 Juni 2021



DIREKTUR MITIGASI PERUBAHAN IKLIM
KEMENTERIAN LINGKUNGAN HIDUP DAN KEHUTANAN
30 JUNI 2021

LINGKUP

1

PARIS AGREEMENT DAN SEKTOR ENERGI

2

UPDATED NDC DAN SEKTOR ENERGI

3

MENUJU GLASGOW

1. PARIS AGREEMENT DAN SEKTOR ENERGI

Projected BAU and emission reduction from each sector category

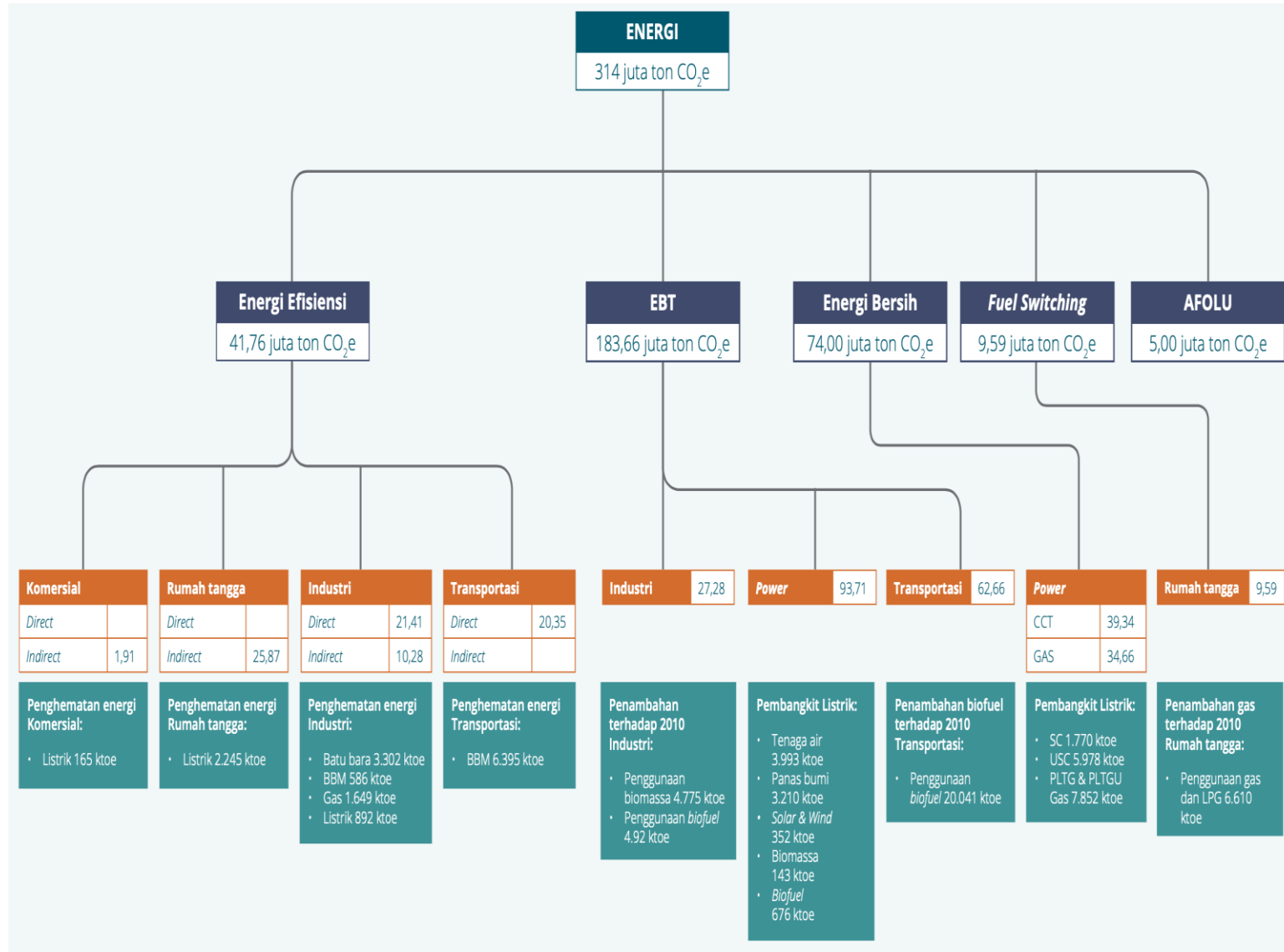
No	Sector	GHG Emission Level 2010* (Mton CO ₂ e)	GHG Emission Level 2030 (Mton CO ₂ e)			GHG Emission Reduction (Mton CO ₂ e)				Annual Average Growth BAU (2010-2030)	Average Growth 2000-2012*
			BaU	CM1	CM2	GHG Emission Reduction		% of Total BaU			
						CM1	CM2	CM1	CM2		
1	Energy*	453.2	1,669	1,355	1,271	314	398	11%	14%	6.7%	4.50%
2	Waste	88	296	285	270	11	26	0.38%	1%	6.3%	4.00%
3	IPPU	36	69.6	66.85	66.35	2.75	3.25	0.10%	0.11%	3.4%	0.10%
4	Agriculture	110.5	119.66	110.39	115.86	9	4	0.32%	0.13%	0.4%	1.30%
5	Forestry**	647	714	217	64	497	650	17.2%	23%	0.5%	2.70%
TOTAL		1,334	2,869	2,034	1,787	834	1,081	29%	38%	3.9%	3.20%

* Including fugitive

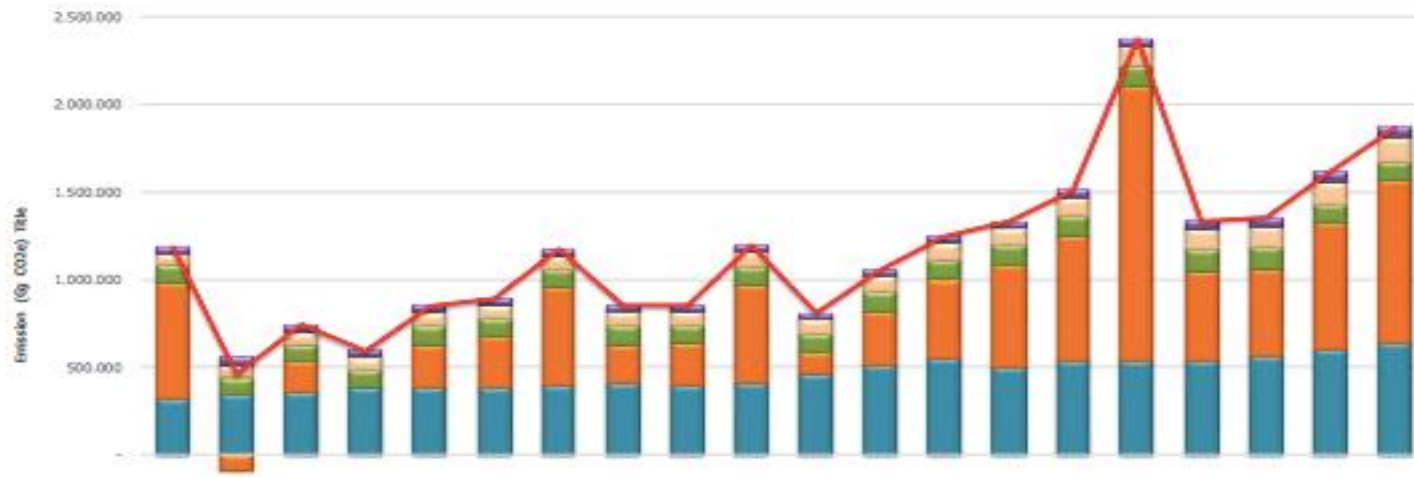
**Including peat fire

Notes: **CM1** = Counter Measure (*unconditional mitigation scenario*)

CM2 = Counter Measure (*conditional mitigation scenario*)

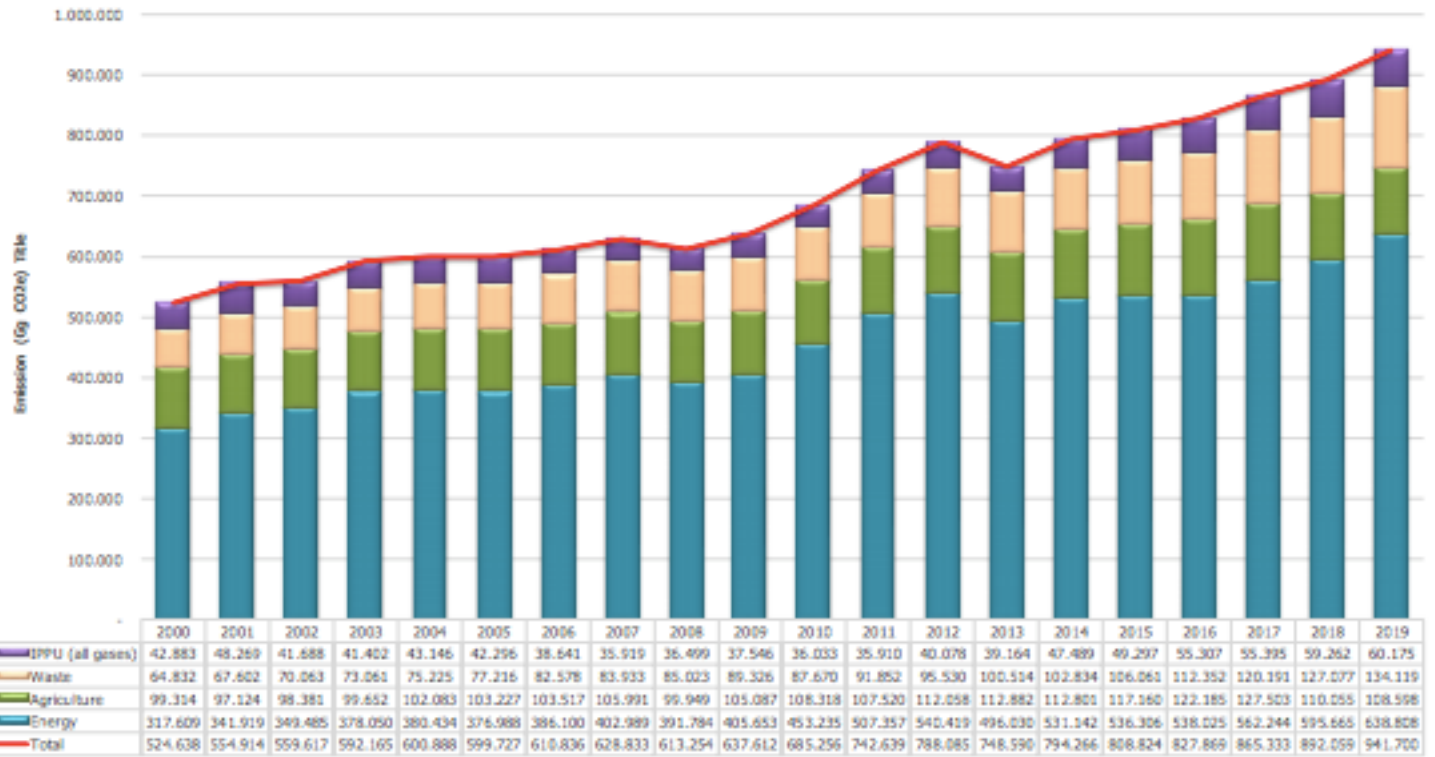


Inventarisasi GRK Nasional Tahun 2019 dengan FOLU



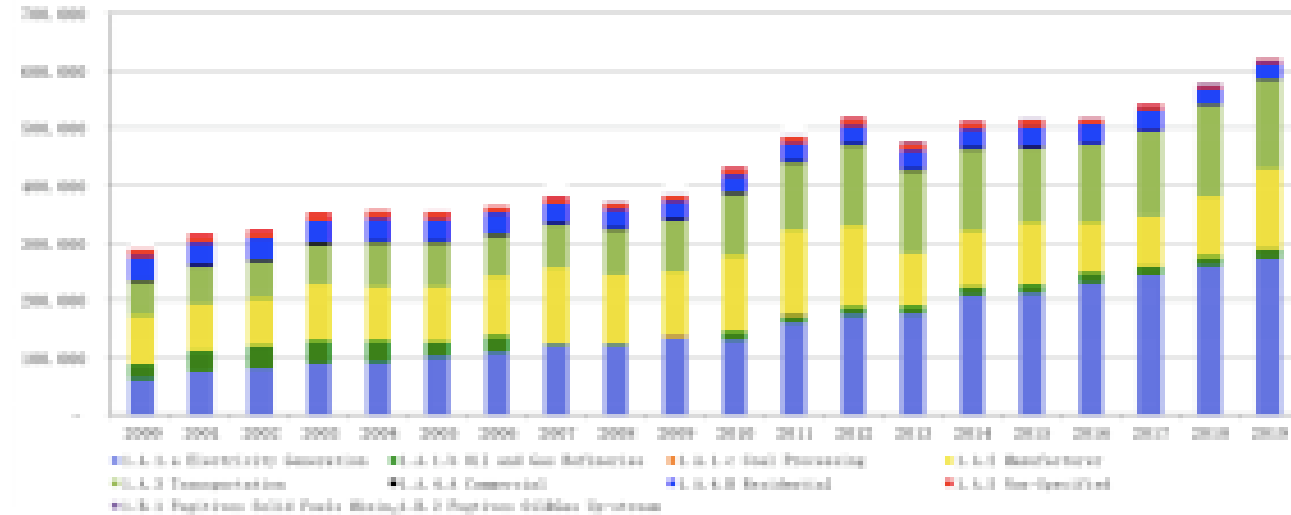
(100,000)	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
IPPU (all gases)	42.883	48.269	41.688	41.402	43.146	42.296	38.641	35.919	36.499	37.546	36.033	35.900
Waste	64.832	67.602	70.063	73.061	75.225	77.216	82.578	83.933	85.023	89.326	87.670	91.852
Agriculture	99.314	97.124	98.381	99.652	102.083	103.227	103.517	105.991	99.949	105.087	108.318	107.520
FOLU & Peat	661.590	93.444	182.723	1.242	249.080	292.006	564.121	224.546	239.087	559.800	124.726	311.440
Energy	317.609	341.919	349.485	378.050	380.434	376.988	386.100	402.989	391.784	455.653	453.235	507.352
Total	1.186.2	461.470	742.340	593.407	849.968	891.733	1.174.9	853.379	852.341	1.197.4	809.982	1.054.0

Inventarisasi GRK Nasional Tahun 2019 tanpa FOLU

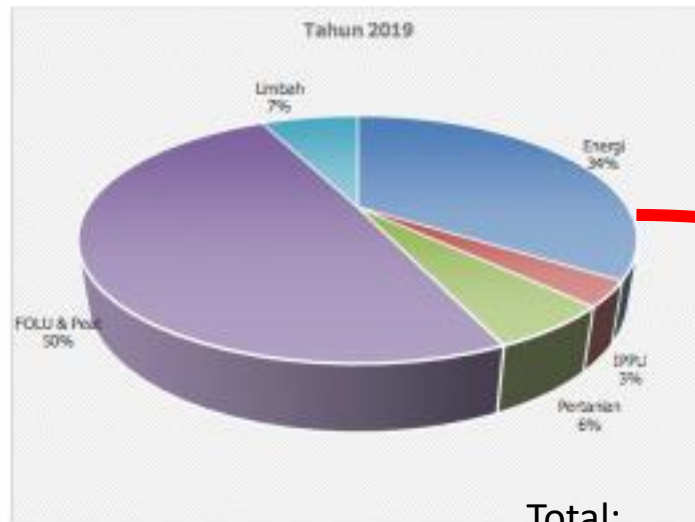


	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
IPPU (all gases)	42.883	48.269	41.688	41.402	43.146	42.296	38.641	35.919	36.499	37.546	36.033	35.910	40.078	39.164	47.489	49.297	55.307	55.395	59.262	60.175
Waste	64.832	67.602	70.063	73.061	75.225	77.216	82.578	83.933	85.023	89.326	87.670	91.852	95.530	100.514	102.834	106.061	112.352	120.191	127.077	134.119
Agriculture	99.314	97.124	98.381	99.652	102.083	103.227	103.517	105.991	99.949	105.087	108.318	107.520	112.058	112.882	112.801	117.160	122.185	127.503	110.055	108.598
Energy	317.609	341.919	349.485	378.050	380.434	376.988	386.100	402.989	391.784	405.653	453.235	507.357	540.419	496.030	531.142	536.306	538.025	562.244	595.665	638.808
Total	524.638	554.914	559.617	592.165	600.888	599.727	610.836	628.833	613.254	637.612	685.256	742.639	788.085	748.590	794.266	808.824	827.869	865.333	892.059	941.700

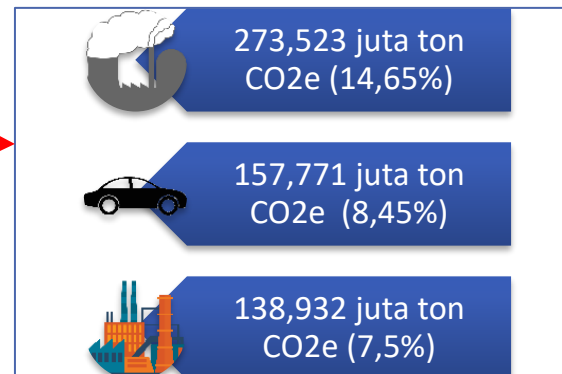
Profil Emisi GRK di sektor energi

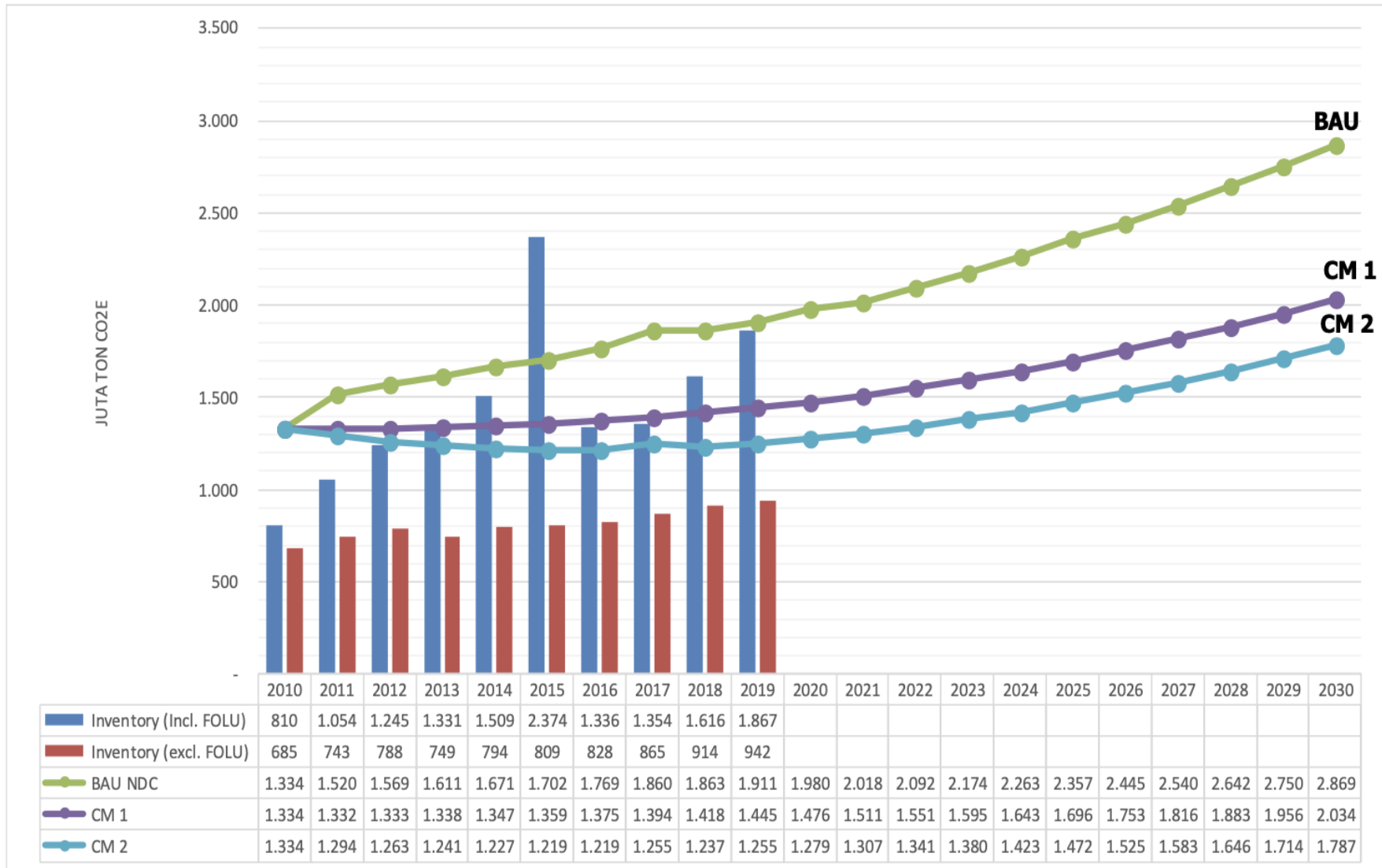


GAMBAR 15. TINGKAT EMISI GRK SEKTOR ENERGI BERDASARKAN SUB-KATEGORI SUMBER EMISI TAHUN 2000-2019



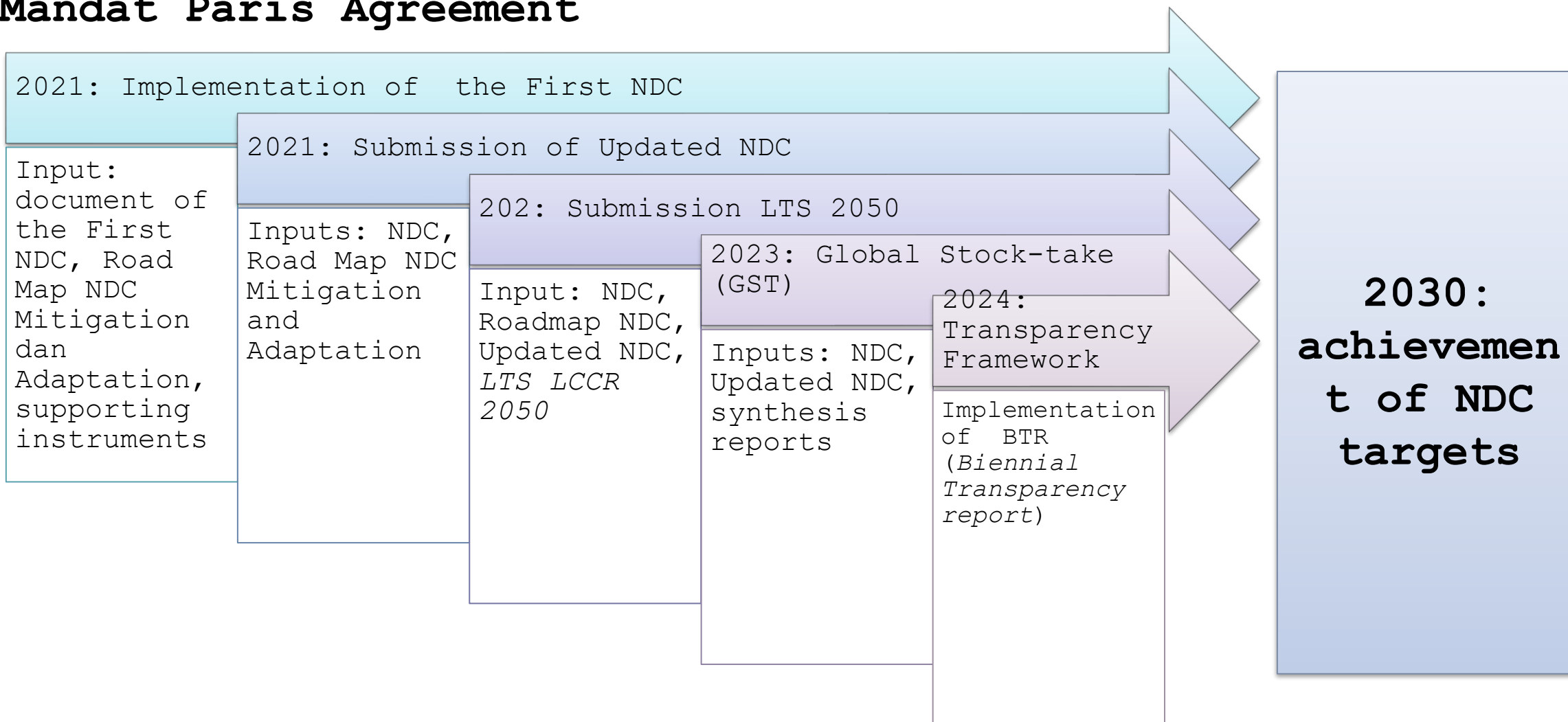
Total:
1,866 Gton CO2e





2. UPDATED NDC DAN SEKTOR ENERGI

Mandat Paris Agreement



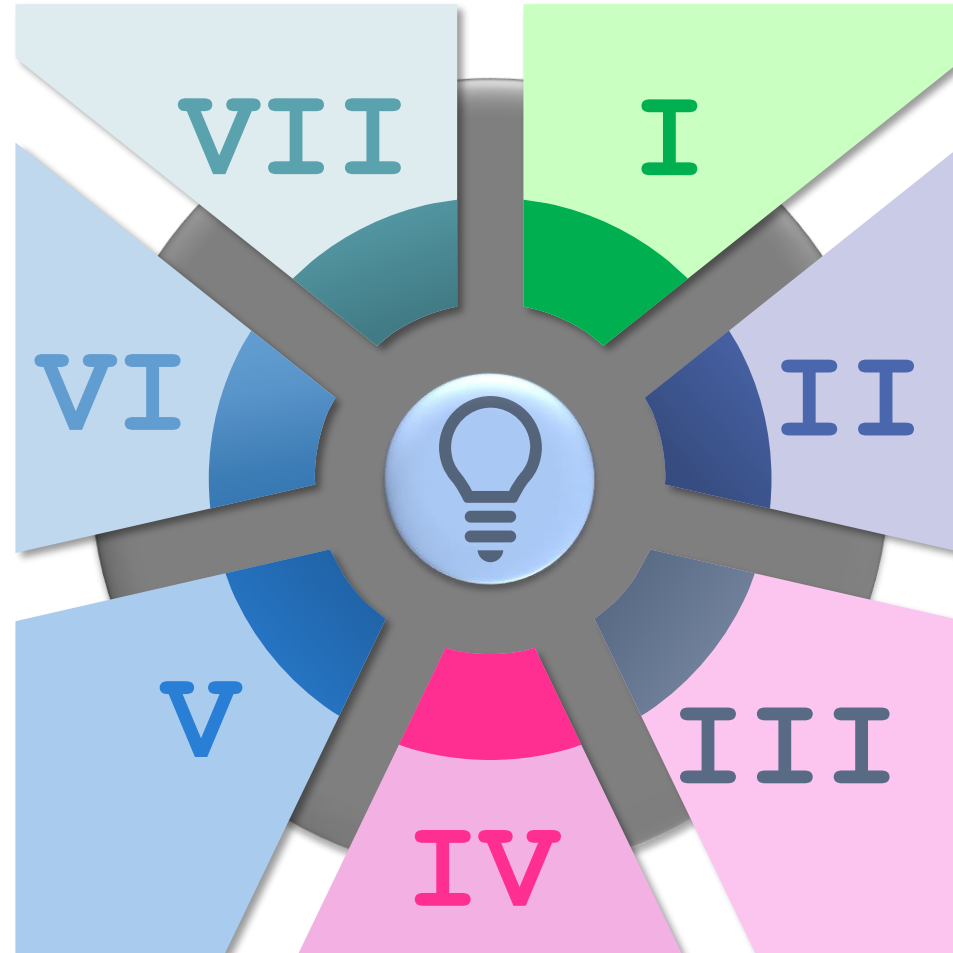
ELEMENT OF UPDATED NDC INDONESIA

REVIEW & ADJUSTMENT
NDC will be reviewed and adjusted, as necessary

MEANS OF IMPLEMENTATION
Finance,
Technology,
Capacity Building,
International Support
and Cooperation

NATIONAL REGISTRY SYSTEM AS THE BACKBONE OF TRANSPARENCY FRAMEWORK

Refer to Dec.18/CMA1 -
Key Elements of NRS -



INFORMATION TO FACILITATE CTU

Refer to Dec.4/CMA1:Reduction level (29% up to 41% of BAU), Type, Coverage, Scope, Assumption

NATIONAL CONTEXT

- General Policies
- Long-term Strategy on Low Carbon and Climate Resilience

MITIGATION

Update Mitigation based on current national condition: policies and actions





ADAPTATION

- Refer to Dec.9/CMA 1
- Update Adaptation based on Current National Conditions: Policies and actions
- Inserting issues of Ocean

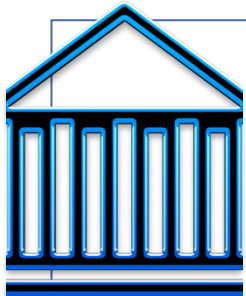
Features of Updated NDC

Reference: Dec. 1/CP. 20, Dec. 1/CP. 21, Paris Agreement, Katowice Climate Package

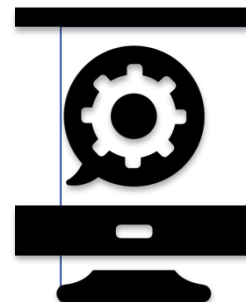
→ Restructured and reformulated of the First NDC Indonesia.

<i>Content</i>			
Mitigation target: Tidak mengubah 29% (unconditional) , up to 41% (conditional) in 2030	Updated information of current policies, regulations, vision and mission of new Cabinet "Indonesia Maju" 9	Additional information on adaptation, means of implementation and transparency framework;	New Commitment (Ocean in Adaptation)
			

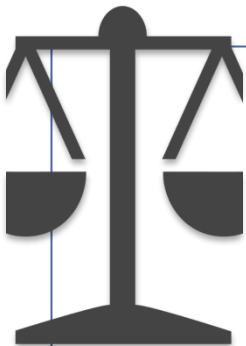
PELAKSANAAN NDC : MODALITAS



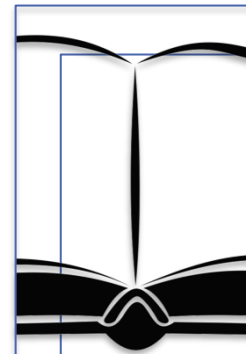
Aspek kelembagaan dari pelaksanaan adaptasi, mitigasi dan MRV



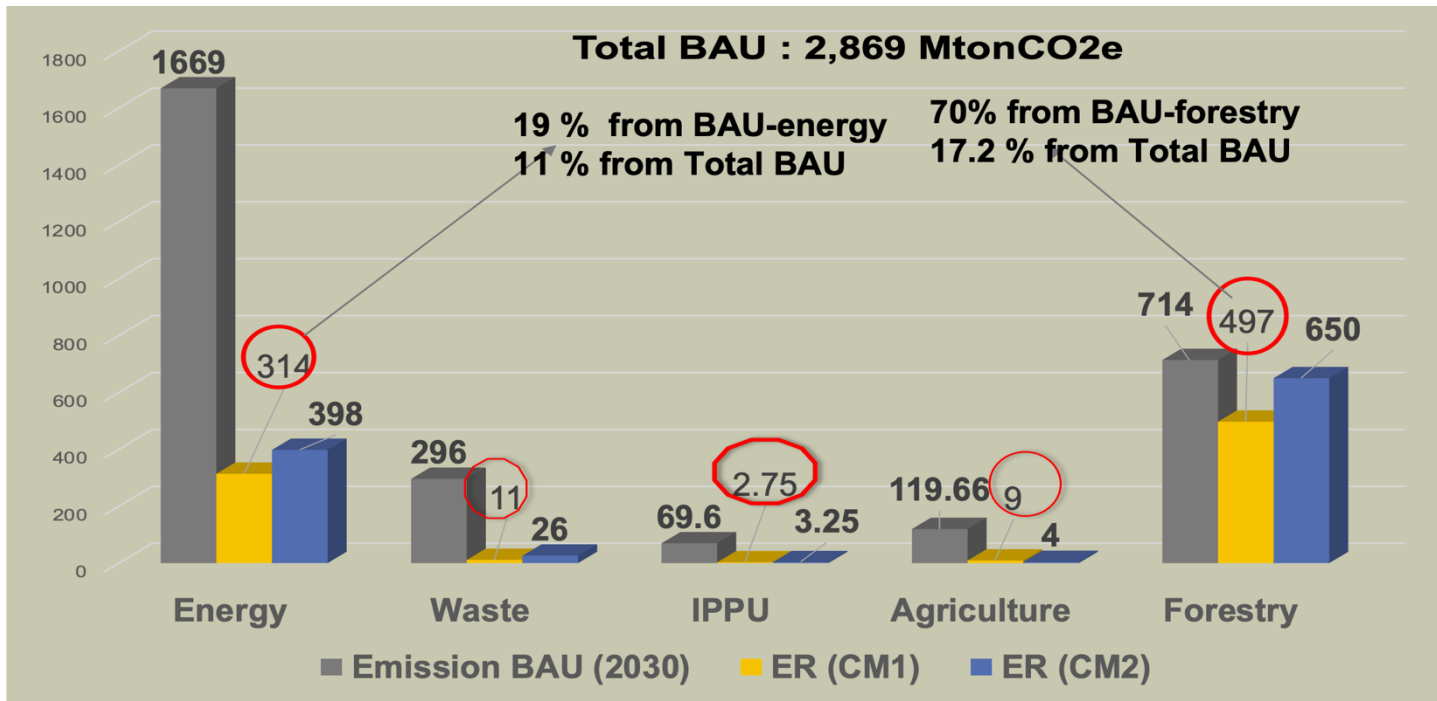
Perangkat Pendukung: SIGN SMART, SRN, SIDIK



Aspek Hukum: RPerpres NEK, Permen LHK tentang Adaptation, Mitigasi, Inventarisasi GRK dan MRV



1. Laporan Nasional Inventarisasi GRK dan Verifikasi Penurunan Emisi GRK (terakhir data tahun 2019)
2. Peta Jalan NDC Mitigasi dan Adaptasi



POTENSI PENINGKATAN AMBISI SEKTOR ENERGI



Peta Jalan NDC Mitigasi

Potensi Aksi Mitigasi lainnya (2019)

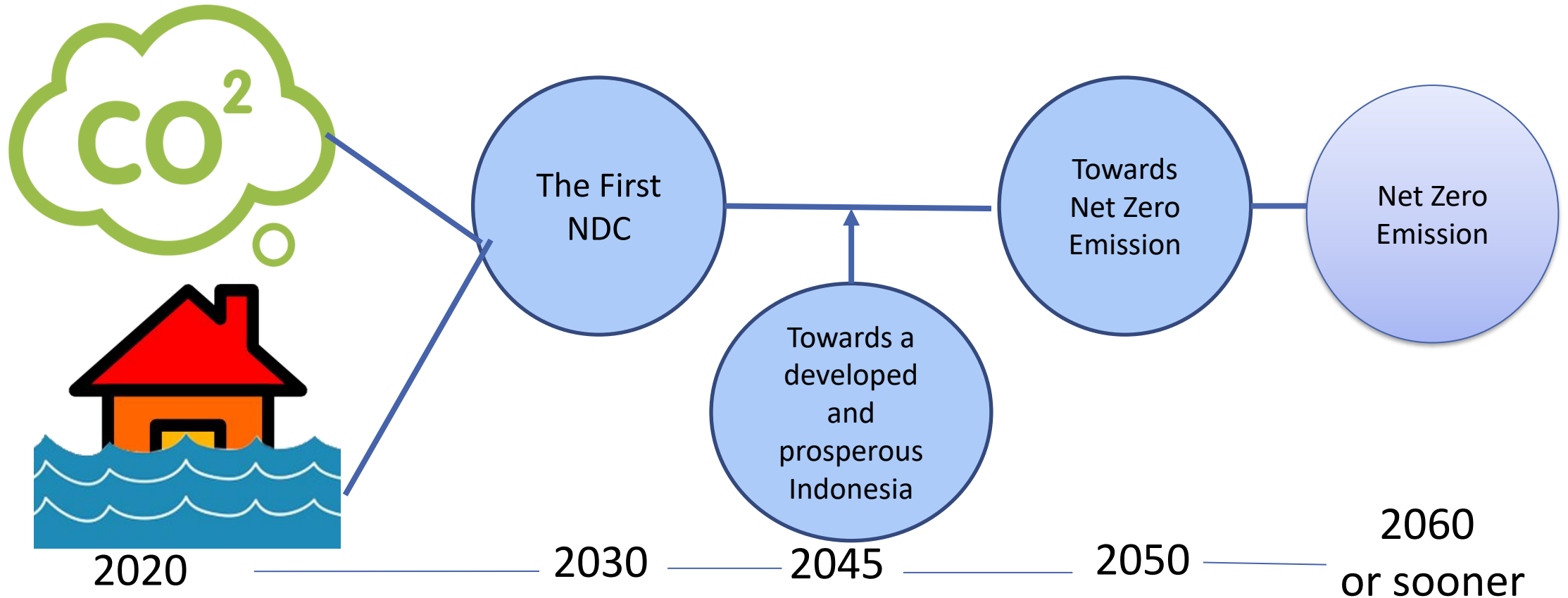
- Pengurangan fugitive gas (industri oil and gas) menuju zero flaring dan venting,
- Penerapan *Carbon Capture and Storage* (CCS)
- Penerapan *Carbon Capture Utilization and Storage* (CCUS)
- Mobil listrik

3. MENUJU GLASGOW

Mandates:

PA Art. 4.19: All Parties should strive to formulate and communicate long-term low greenhouse gas emission development strategies

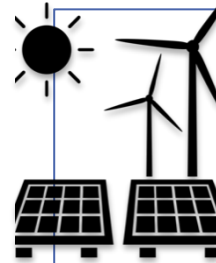
Dec. 1/CP.21 Para 35: *Invites* Parties to communicate, by 2020, to the secretariat mid-century, long-term low greenhouse gas emission development strategies in accordance with Article 4, paragraph 19, of the Agreement.....



AKSI MITIGASI UTAMA



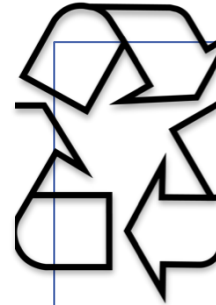
Net sink in 2030,
Reduce deforestation, increase SFM,
peat restoration, afforestation and
reforestation, BECCS,



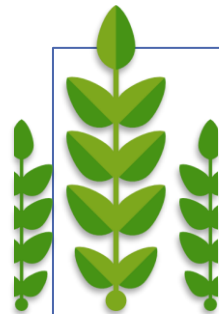
RE: solar PV, hydro, wind, EV, biomass
biofuel, tidal, waste
NE: hydrogen,
CCS/CCUS, BESS,



Increase clinker cement ratio, increase
advanced tech in ammonia plants,
secondary catalyst in destruction of
N₂O, technology improvement in
metal industry



Increase the number of 3R,
composting, landfill+LFG, biodigester,
sludge recovery, RDF/SRF, POME



Reduce land conversion for rice field,
maximum land conversion for
plantation, utilisation of unproductive
land

LTS-LCCR 2050: STRUCTURE



LTS-LCCR 2050:

L T V ~ long-

term vision

Role of LTS-LCCR 2050

- aligning the climate goals and targets with national, sub-national and international objectives including SDGs
- NPS, innovation, enabling communities

Visi Indonesia 2045

towards a developed and prosperous Indonesia:
(a) HRD and science and technology advancement,
(b) sustainable economic development, (c)
equitable development, and (d) strengthening
national resilience and public sector governance.

Mitigation

- three pathway scenarios on 5 sector categories (AFOLU, energy, waste, IPPU)
 - **CPOS**: extended NDC/current policy scenario
 - **TRNS**: transition scenario
 - **LCCP**: low carbon scenario compatible with Paris Agreement target

Adaptation

- the goal to reduce the impact of climate change on national GDP through increasing resilience on:
 - 4 basic necessities: food, water, energy, and environmental health
 - 3 following target areas of resilience : economy, social and livelihood, ecosystem and landscape

Terima kas

