

Towards the Achievement of Decarbonization in the Region and Localization of the SDGs

Junichi Fujino (IGES)

LoCARNet 8th Annual Meeting Program November 8, 2019 Beijing



Climate and SDGs

- Paris Agreement (Dec. 2015)
- 2 degree target (1.5 degree)



- 2030 Agenda (Sep. 2015)
- 17 goals, 169 targets



Climate and SDGs

- Paris Agreement (Dec. 2015)
- 2 degree target (1.5 degree)
- Global review (Global Stocktake) by every 5 years
- Nationally Determined Contributions (NDCs)
- UNFCCC/COP

- 2030 Agenda (Sep. 2015)
- 17 goals, 169 targets
- Global review at UN General Assembly by every 4 years
- Voluntary National Reviews (VNRs)
- HLPF (High Level Political Forum)

Both Paris Agreement and 2030 Agenda have "Follow-up and Review" process for all countries!



SUSTAINABLE DEVELOPMENT KNOWLEDGE PLATFORM

HOME HIGH-LEVEL POLITICAL FORUM STATES SIDS SDGS TOPICS UN SYSTEM STAKEHOLDER ENGAGEMENT

Voluntary National Reviews Database

As part of its follow-up and review mechanisms, the 2030 Agenda for Sustainable Development encourages member states to "conduct regular and inclusive reviews of progress at the national and sub-national levels, which are country-led and country-driven" (paragraph 79). These national reviews are expected to serve as a basis for the regular reviews by the high-level political forum (HLPF), meeting under the auspices of ECOSOC. As stipulated in paragraph 84 of the 2030 Agenda, regular reviews by the HLPF are to be voluntary, state-led, undertaken by both developed and developing countries, and involve multiple stakeholders.

The voluntary national reviews (VNRs) aim to facilitate the sharing of experiences, including successes, challenges and lessons learned, with a view to accelerating the implementation of the 2030 Agenda. The VNRs also seek to strengthen policies and institutions of governments and to mobilize multi-stakeholder support and partnerships for the implementation of the Sustainable Development Goals.

This online review platform is dedicated to compiling information from countries participating in the voluntary national reviews of the High-level Political Forum on Sustainable Development (scroll down).



Cities account for more than 70% of global emissions & consume 2/3 of the world's energy. By 2050, 2/3 of all people will live in a city. To win the fight against **#ClimateChange**, we must make the transition to sustainable, low-emission cities. Thttps://t.co/pmGExyNnxp https://t.co/y3XSDpAZyl



31 October 2019

Secretary-General's Message on World Cities Day [scroll down for French]

New York

More than half the world's population now lives in urban areas. By 2050, two thirds will do so. Much of what will be needed to house and serve this increasingly urban world has yet to be constructed, and even some new cities will need to be built. This brings enormous opportunities to develop and implement solutions that can address the climate crisis and pave the way toward a sustainable future.

Cities consume more than two-thirds of the world's energy, and account for more than 70 per cent of global carbon dioxide emissions. The choices that will be made on urban infrastructure in the coming decades – on urban planning, energy efficiency, power generation and transport – will have decisive influence on the emissions curve. Indeed, cities are where the climate battle will largely be won or lost.

But in addition to their enormous climate footprint, cities generate more than 80 per cent of global gross domestic product and, as centers of education and entrepreneurship, they are hubs of innovation and creativity, with young people often taking the lead.

From electric public transport to renewable energy and better waste management, many of the answers needed for the transition to a sustainable, low-emission future are already available. Cities around the world are turning them into a reality. It is encouraging to see this happening, but we need this vision to become the new norm. Now is the time for ambitious action.

World Cities Day comes at the end of "urban October", a month dedicated to raising awareness on urban challenges, successes and sustainability. As we conclude this period, let us commit to embracing innovation to ensure a better life for future generations and chart a path towards sustainable, inclusive urban development that benefits all.



INTERGOVERNMENTAL PANEL ON Climate change

ncc

Climate Change and Land

An IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems

Summary for Policymakers)







A4.6. Both global warming and urbanisation can enhance warming in cities and their surroundings (heat island effect), especially during heat related events, including heat waves (high confidence). Night-time temperatures are more affected by this effect than daytime temperatures (high confidence). Increased urbanisation can also intensify extreme rainfall events over the city or downwind of urban areas (medium confidence). {2.5.1, 2.5.2, 2.5.3, 4.9.1, Cross-Chapter Box 4 in Chapter 2}

A6.5 Urban expansion is projected to lead to conversion of cropland leading to losses in food production (high confidence). This can result in additional risks to the food system. Strategies for reducing these impacts can include urban and periurban food production and management of urban expansion, as well as urban green infrastructure that can reduce climate risks in cities32 (high confidence). {4.9.1, 5.5, 5.6, 6.3, 6.4, 7.5.6} (Figure SPM3) INTERGOVERNMENTAL PANEL ON CLIMPTE Change

The Ocean and Cryosphere in a Changing Climate

This Summary for Policymakers was formally approved at the Second Joint Session of Working Groups I and II of the IPCC and accepted by the 51th Session of the IPCC, Principality of Monaco, 24th September 2019

Summary for Policymakers







B3. Sea level continues to rise at an increasing rate. Extreme sea level events that are historically rare (once per century in the recent past) are projected to occur frequently (at least once per year) at many locations by 2050 in all RCP scenarios, especially in tropical regions (high confidence). The increasing frequency of high water levels can have severe impacts in many locations depending on exposure (high confidence). Sea level rise is projected to continue beyond 2100 in all RCP scenarios. For a high emissions scenario (RCP8.5), projections of global sea level rise by 2100 are greater than in AR5 due to a larger contribution from the Antarctic Ice Sheet (medium confidence). In coming centuries under RCP8.5, sea level rise is projected to exceed rates of several centimetres per year resulting in multi-metre rise (medium confidence), while for RCP2.6 sea level rise is projected to be limited to around 1m in 2300 (low confidence). Extreme sea levels and coastal hazards will be exacerbated by projected increases in tropical cyclone intensity and precipitation (high confidence).

Projected changes in waves and tides vary locally in whether they amplify or ameliorate these hazards (medium confidence). {Cross-Chapter Box 5 in Chapter 1; Cross-Chapter Box 8 in Chapter 3; 4.1; 4.2; 5.2.2, 6.3.1; Figures SPM.1, SPM.4, SPM.5}

Sea temperature around Japan (Oct 9th 2019) Just before Typhoon Hagibis hit Japan

10月11日

〇時時点の資料



Climate and SDGs, and Cities

Cities are places to be suffered by climate change and to accelerate actions!

- Paris Agreement (Dec. 2015)
- 2 degree target (1.5 degree)
- Global review (Global Stocktake) by every 5 years
- Nationally Determined Contributions (NDCs)



Locally Determined Contributions (LDCs) !?

- 2030 Agenda (Sep. 2015)
- 17 goals, 169 targets
- Global review at UN General Assembly by every 4 years
- Voluntary National Reviews (VNRs)



Voluntary Local Reviews (VLRs) !?

NDCs: National Determined Contributions



IGES Institute for Global Environmental Strategies

AIM Local Low Carbon Society (LCS) Scenarios in Asia

 Quantitative scenario approach with AIM (Asia Pacific Integrated Model) has been applied to more than 20 regions in Asia, and LCS plans and roadmaps are developed for each region. http://2050.nies.go.jp/LCS/index_j.html





Structure of AIM/ExSS

Design of LCS Projects and Projection of Future Scenario



Iskandar Malaysia Vision "Strong and Sustainable Metropolis of International Standing"

+ LCS scenario research (Low Carbon Society) by SATREPS (JST/JICA) scheme



Low Carbon Society Blueprint for Iskandar Malaysia 2025

Carbon society MtCO₂eq Blueprin for Iskandar Malaysia 2025 Seldend Edillion



Figure 1: GHG emissions by sectors

Action Names

- 1 Integrated Green Transportation
- 2 Green Industry
- 3 Low Carbon Urban Governance
- 4 Green Buildings & Construction
 - Green Energy System &
- 5 Renewable Energy
- 6 Low Carbon Lifestyle
- Community Engagement &
- Consensus Building
- 8 Walkable, Safe, Livable City Design
- 9 Smart Growth
- 10 Green and Blue Infrastructure & Rural Resources
- 11 Sustainable Waste Management
- 12 Clean Air Environment

12 action, 281 program

Selected Climate Action Plans by UTM-LCARC In collaboration with IGES



ADV COUDE

Selected City Climate Actions by UTM-LCARC





Kuala Lumpur aims to reduce the City's carbon emissions intensity of GDP by 70% by 2030, (based on the 2010 level) without compromising its vision and economic growth targets.

City to city collaboration between Kuala Lumpur and Tokyo

Tokyo is a giant energy consumer (around 700 PJ in 2012). Mitigation actions in the building sector take an important role to achieve their declared target for climate change actions.

Tokyo has developed measures for both existing and new buildings as well as Tokyo Metropolitan Government (TMG) properties. (eg. Cap & Trade Scheme, CO2 emission reporting program, Green building program)

Kuala Lumpur and Tokyo started their collaboration on the building sector as of June 2019.



Kickoff ceremony in DBKL (June 2019)

Discussions in Japan on energy saving measures (July 2019)



KL and Tokyo looking into low carbon society collaboration

23 AUG 2019 / 19:54 H



Junichi Home Create — List View Grid View Manage Posts



Junichi Fujino is 😃 feeling thankful with Setifu Di Sana and 5 others at The hall, biro Pelancongan KL.

August 24 at 2:02 PM · Kuala Lumpur, Malaysia · 🔾 🖛

T2KL LCS (Tokyo to Kuala Lumpur Low Carbon System) seminar (Aug 23) hosted by Mayor of Kuala Lumpur, Dato' Hisham, successfully completed.

IGES coordinates (soft) technology transfer program from TMG (Tokyo Metropolitan Government) to KLCH (Kuala Lumpur City Hall) that aims to conduct energy saving and renewable energy program on around 2000 public buildings/facilities in collaboration with UTM (University Technology Malaysia) and SEDA (Sustainable Energy Development Authority), funded by MOEJ (Ministry of the Environmen Japan).

TMG has already conducted this program on around 4200 public buildings/facilities in Tokyo!





The phenomenon of climate change in the last few decades has become one of the strategic issues for all over the world, including Indonesia. At the G-20 meeting in Pittsburgh and COP15 in Copenhagen, Indonesia is committed to taking part in reducing greenhouse gases (GHG) by 26% with domestic resources and 41% with international assistance in 2020. The commitments are then followed up by the formulation of Presidential Regulation No. 61/2011 and plied for the projection of carbon dioxide (CO₂) emission and design of LCS scenario. This preliminary research is focused on energyrelated CO₂ emission.

Semarang City's CO₂ emission is estimated to be 2.823 ktCO₂e in 2015 based on collected data. The passenger transport sector is a sector emitting the largest CO₂ in Semarang City. This sector accounts for more than half of the total emission.

Collaborative work with Semarang and IGES/AIM team

Objective

- Support developing and accelerating a climate change action plan in Semarang by quantitative analysis with integrated modeling approach
- Capacity building and knowledge transfer of Low Carbon Society (LCS) scenario development and implementation



Local Government



Development Planning Agency (Bappeda)

University



Diponegoro University

AIM team, Japan



Ministry of Environment Japan

Institute for Global **Environmental Strategies**

National Institute for **Environmental Studies, Japan**

Consulting firm

E-Konzal Co. Ltd.

Mizuho Information and Research Institute, Inc.

August 2017 in Semarang In occasion of ICENIS 2017

Carbon emission by AIM

- CO₂ emission in BaU scenario will amount to 4.2 times as much as 2015.
- In CM scenario, CO₂ emission can be reduced by 29%.
- The passenger transport sector and the commercial sector will lead emission reduction.
- Semarang City has a potential to reduce CO₂ emission corresponding to INDC of Indonesia

	2015	2030 BaU	2030 CM	BaU /2015	CM /BaU			22,40	9	
CO ₂ emission (ktCO ₂ e)	5,282	22,409	16,009	4.24	0.71	20,000 -				
Industry	2,524	14,577	10,826	5.77	0.74	(ə			16,009	
Commercial	571	4,042	2,665	7.08	0.66	0 15,000 -		-		Transport
Residential	748	1,174	862	1.57	0.73	on (k				 Residential
Passenger transport	1,438	2,616	1,656	1.82	0.63	missi				Commercia
CO ₂ emission per GDP (tCO ₂ e/bil.Rp)	39.4	26.9	19.2	0.68	0.71	° 0		-		Industry
CO ₂ emission per capita (tCO ₂ e/person)	3.3	10.9	7.8	3.29	0.71	5,000 -	5,282		_	

CO₂ emission by sector

2015 2030BaU 2030CM

25,000 _____

IGES Institute for Global Environmental Strategies

Towards a Sustainable Asia-Pacific

🔰 f 👳

Discussion Paper

+

0

Home	Research	News&Events	Publications	Networks	About IGES	Publication Search	Search
Home > Publi	cations > Low Carbon	Society Scenario Sen https	s://pub.iges.or.j	p/pub/low-c	arbon-society	/-scenario-semara	ng-2030

ALL SALES

Downloads

Topics: Low-Carbon Societies Region/Country: Indonesia Language: English

Low Carbon Society Scenario Semarang 2030

Author: Bambang HARYONQ Mochamad FARHAN Muhammad Luthfi Eko NUGROHQ Maryono, Satria UTAMA Hadiyanto, Tomoki EHARA Junichi FUJINO, Sudarmanto Budi NUGROHO, and Kazuya FUJIWARA Copyright: Institute for Global Environmental Strategies | 2017-11

Following up the Presidential Regulation 61/2011 and 71/2011, Semarang City as one of the cities in Indonesia has a liability in the GHG reduction activities. This research on the low carbon society (LCS) scenario for Semarang City are carried out aiming to contribu-tion to promoting climate change actions and policies in the city. This study is one of the outcomes of the collaboration among Mu-nicipality of Semarang, Diponegoro University and Asia-Pacific Integrated Model (AIM) team in Japan. Two kinds of scenarios, namely Business as Usual (BaU) scenario and Countermeasure (CM) scenario, are prepared to analyze reduc-tion potential of CO2 emission in future. In BaU scenario, it is as-sumed that there is no policy or technology intervention to reduce carbon emission, while attempt to reduce carbon emission is as-sumed in CM scenario. In the CM scenario, Semarang City Govern-ment will promote five LCS actions and implement various LCS pro-jects belonged to the actions. One of the action named "Sustainable Transport", which promotes energy efficient vehicle and modal shift, will contribute to the reduction of 4,220 ktCO2e. These actions and projects help Semarang City to reduce

Nov 13, 2017 NIES/ IGES/UTM/MHIR/E-konzal **COP23 Japan Pavilion Side Event** @Bonn, COP23 Make Asian Cities as Low Carbon Champions supporting city-to city collaboration among Japanese and Asian cities-UTM/IGES

Fujino/Ma'am Techie/Toyama/UTM/IRDA/Tokyo/HCMC/ex-Tokyo

Mayor Hendrar Semarang

City to City Collaboration (Semarang)

©Semarang, Republic of Indonesia

Toyama City and Semarang City selected as "Resilient Cities of 100RC" by the Rockefeller Foundation are deepening friendship as a result of "Resilient City Summit in Toyama" held in 2016. This year we will conduct a survey project to apply the knowledge and expertise of Toyama City and city enterprises, aiming at promoting low carbonization in Semarang City. This JCM(Joint Crediting Mechanism) project is the first collaborative project among 100 RCs in Asia.

Toyama City's technology/knowhow

Public Transport Activation (CNG bus)

Utilization of Renewable Energy

Science-Based Policy Decision Making Process

www.iges.or.jp

Translating Policy Research into Projects

Blending Resources and Multiple Partnership for JCM Model Project

72 BUS For corridors 1, 5, 6, and 7

www.iges.or.jp

Best practices in Indonesia and Asia

A. Award by National Government for the achievement to Increase Ridership of Trans Semarang (December, 2018)

B. Become a Role model for other Indonesian cities: Joint commitment to develop urban public transport improvement program (Signed on 9 January, 2019 – organized by MOT)

72 Armada BRT Trans Semarang Gunakan Bahan Bakar Gas

🖸 Rabu: US Januari 2013 💶 Alin Rismoko

Wali Kota Toyama, Masashi Mori, Gubernur Jateng Ganjar Pranowo, Wali Kota Semarang Hendrar Prihadi, dan Dirjen Perhubungan Darat

Budi menilai Kota Semarang memiliki komitmen dalam menjalankan transportasi umum BRT. Dari sisi operasional, manajemen, dan pelayanan sudah sangat optimal.

"Kota Semarang patut menjadi contoh bagi kota atau kabupaten lain yang masih kurang optimal dalam menjalankan transportasi umum BRT. Bagi kota/kabupaten yang tidak segera memperbaiki diri, tentu armada akan kami alihkan ke kota/kabupaten lainnya," paparnya.(*)

VNRs: Voluntary National Reviews VLRs: Voluntary Local Reviews

IGES Institute for Global Environmental Strategies

Follow-up and Review Process of SDGs (2030 Agenda)

- <u>North and Central Asia Forum on Implementation of the Sustainable Development Goals</u>, 3-4 September 2018, Tbilisi, Georgia
- <u>North-East Asian Multi-stakeholder Forum on Sustainable Development Goals</u>, 5-6 September 2018, Ulaanbaatar, Mongolia
- <u>South East Asia Forum on Implementation of the Sustainable Development Goals</u>, 11-12 September 2018, Bangkok, Thailand
- South and South West Asia Forum on Implementation of the Sustainable Development Goals,

4-5 October 2018, New Delhi, India

Pacific Forum on Implementation of the Sustainable Development Goals, (followed by VNR workshop), 24-25 September 2018, Nadi, Fiji

27-29 March 2019, Bangkok, Thailand

10-18 July 2019 – High Level Political Forum (HLPF) 24-25 September 2019 – HLPF (Head of States Level)

Sub-regional Forum

World First VLR Report to HLPF2018

Sustainable Development Goals Report on Cities - Launch of SDG City Reports on Shimokawa, Toyama, and Kitakyushu

HLPF2018 Japan Side Event

ISAP2018/ICLEI Cafe

Fujinc Okamoto IGES Cabinet Office

Bernadia Katinka UCLG ASPAC ESCAP

Kitahashi Kitakyush

Takemoto Takahashi **UNU-IAS** MOEJ

Rafael **UN-HABITAT**

Kanie Keio Univ.

IGES launched 3 Voluntary Local Review (VLR) report at HLPF2018 with 3 Japanese local governments

Shimokawa Town the Sustainable Development Goals Report -The Invested Chaterge Invariant sector manafulation and the Sustain-2018

Toyama City the Sustainable Development Goals Report Consol Children Lesson Provent Lesson Report 2018

TOYAMA

Kitokyushu City the Sustainable Development Goals Report - Faituring a hushol Gaser Gowin City with hus weath and property, contracting to the word-2018

Kitakyushu City, Fukuoka

Shimokawa Town, Hokkaido

Toyama City, Toyama

Identify relationship between local measures and SDGs

Basic objective Measures 5055		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
	t for Addid	7 ile. 386	3 87.55. 4/4	4554 1001	ġ	i senio V	0	anana M	e	10 HA- 10 HA- 10 HA-	ALL	8 10 10 10 10 10 10 10 10 10 10 10 10 10	916 •••	Nier D	Ein <u>\$</u>	1898 M	19 hans 19 hans	
Create a community where people are viorant and in good health community werfare and medica services)	Community health and welfare		1 - 1								d 🌒					1		
	Health and modical services			200				1 1			1						1	
	Support for the elderly	1.1			1.1		1.1	1.1		· · · ·					- 1 - I		100	
	Parenting support				1.000			1.00										
	Support for persons with disabilities-						1.1								1			
Cultivate human	School education	1.					1	1							1.1.1			
resources by developing their	Lifelong learning and sports																	
and positive qualities	Culture and the arts		-															
Land utilization distribution Landscaping an Housing	Land utilization and urban displicts															1		
	Landscaping and barks	1.1	1	1.0	1.1						1				1.00			
	Flowing	1.1		· · · · ·		-												
	Roads and bridges				1			1										1
	Measures to cope with snow and extreme cold																	
	Waterworks				1.000	-												
Create safe, secure,	Semage system	1000			1.0			-										
canditions	Public transportation																	
	Environmental conservation							1				1						1
	Traffic safety, crime prevention, and consumer living											۲			1		1	
	Fire prevention and omorgoncy rescue																	
	Disaster prevention			1.1	1.1													
	Digitization	1.00		1.1.1	1		-											1

Citizens joined sessions to understand SDGs and developed own Shimokawa SDGs

Shimokawa Vision 2030

SDG FutureCity Subcommittee activities (September 20	17 through	April 2018)
--	--------------	------------	-------------

September. 2017	Session 1	SDG Subcommittee procedures
October 2017	Session 2	The concept of "connection"
November. 2017	Session 3	What we want more of and less of in Shimokawa by 2030, and what we absolutely want to see happen by then
December 2017	Session 4	Linking the 17 SDGs to those elements
January 2018	Session 5	Best-case and worst-case scenarios for Shimokawa under the 17 SDGs
February 2018	Session 6-8	Create loop diagram
	Session 9	Supplement loop diagram, use it to discuss a vision (written draft) and concrete actions (leverage points, activities, projects)
March 2018	Session 10	Discuss concrete actions
	Session 11	Discuss progress management indicators
	Session 12	Discuss vision/ideals (draft)
April 2018	Session 13	Solidify vision, taking public feedback into account

IGES

World's first VLR online platform

An Initiative Supported by

VLR Lab

VLR Lab

🖾 in 🎔 🖬

»IGES Website

Background About

Buenos Aires

Institute for Globa Environmental Strategies

This online platform provides all you need to know about cities and regions taking a lead on "Voluntary Local Reviews."

lome

https://www.iges.or.jp/en/sdgs/vlr/index.html

NDCs: National Determined Contributions

VNRs: Voluntary National Reviews

Joint Communiqué

The 20th Tripartite Environment Ministers Meeting among China, Japan and Korea

23-24 June 2018, Suzhou, China

21. The Ministers welcomed the preparatory work done to date and agreed on launching the joint research on cities towards decarbonization and sustainable development in 2018. https://www.env.go.jp/press/files/jp/109425.pdf

Japan-China Climate Policy Research Workshop 2017

Date: Two days during 6th-7th September 2017 Venue: China People's Palace, Beijing

Host: Ministry of the Environment, Japan (MOEJ) Co-organizers: Institute for Global Environmental Strategies (IGES) Energy Research Institute of the National Development and Reform Commission (ERI)

China-Japan-Korea Joint Research on Cities towards Decarbonization and Sustainable Development

- 1. Start as CJK ministers' climate initiative at COP22, and then IGES is appointed as focal research institute to coordinate city program,
- 2. IGES organized 1) city session in Japan-China Climate Policy Research Workshop in Sep 2017, Beijing, 2) COP23 side event in Nov 2017, Bonn, in collaboration with NCSC, KEI under leadership of MOEJ, MEE, MOEK,
- 3. IGES conducted 1) analyze best local climate actions in Japan (Nagano pref., Yokohama city, Toyama city), 2) organize joint research WS in Beijing on 14 Oct, 3) organize COP24 official side event in Katowice on Dec 2018, 4) propose next two years project, in collaboration with NCSC, KEI, supported by each government.

COP23 side event on Nov 10, 2017, Bonn

Pre-technical meeting on June 20-21, 2018, Seoul City Case Studies

Case studies of each 3 cities in CJK

IGES Institute for Global Environmental Strategies

UNFCCC COP24 official side event on City Champions from Asia: China-Japan-Korea Joint Climate Research Initiative towards Zero Carbon organized by IGES/NIES/UTM on 11th Dec 2018, Katowice, Poland

Mr. Cho Myung-rae Minister of Environment, Republic of Korea

Mr. Yoshiaki Harada, Minister of the Environment, Japan

Mr. Xie Zhenhua, Special Representative on Climate Change Affairs, China

Our plan to produce outputs during 3 years

- Summarize Best practices of CJK cities,
- Extract key essences and develop methodologies,
- Make real projects in the cities,

by Case studies, Handbooks, Pilot projects, etc

Main results of 2nd year

"City Climate Action Report"

"Good Practices towards decarbonization and sustainable city"

Regional / Local Circulating and Ecological Sphere (CES)

Climate and SDGs, and Cities

Cities are places to be suffered by climate change and to accelerate actions!

- Paris Agreement (Dec. 2015)
- 2 degree target (1.5 degree)
- Global review (Global Stocktake) by every 5 years
- Nationally Determined Contributions (NDCs)

Locally Determined Contributions (LDCs) !?

- 2030 Agenda (Sep. 2015)
- 17 goals, 169 targets
- Global review at UN General Assembly by every 4 years
- Voluntary National Reviews (VNRs)

Voluntary Local Reviews (VLRs) !?

Climate and SDGs, and Cities

Cities are places to be suffered by climate change and to accelerate actions!

- Paris Agreement (Dec. 2015)
- 2 degree target (1.5 degree)
- Global review (Global Stocktake) by every 5 years
- Nationally Determined Contributions (NDCs)

 - Locally Determined Contributions (LDCs) !

- 2030 Agenda (Sep. 2015)
- 17 goals, 169 targets
- Global review at UN General Assembly by every 4 years
- Voluntary National Reviews (VNRs)

Let's meet again at following opportunities;

- UNFCCC/COP25 (Dec 2-13, 2019, Madrid)
- World Urban Forum (Feb 8-13, 2020, Abu Dabi)
- ASEAN High Level Seminar on Sustainable Cities (March 9-13, 2020, Manila)
- Asia-Pacific Forum on Sustainable Development (March 25-27, 2020, Bangkok)
- High Level Political Forum (middle of July, NY)
- and other opportunities!

Junichi FUJINO (Ph.D)

(fujino@iges.or.jp)
Principal Researcher
Program Director, City Taskforce
Institute for Global Environmental Strategies (IGES)
https://pub.iges.or.jp/staff/fujino-junichi