



**METI**

*Ministry of Economy, Trade and Industry*

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CTCN Asia Regional Forum

# Japan's perspective on climate technology transfer through the CTCN and GCF

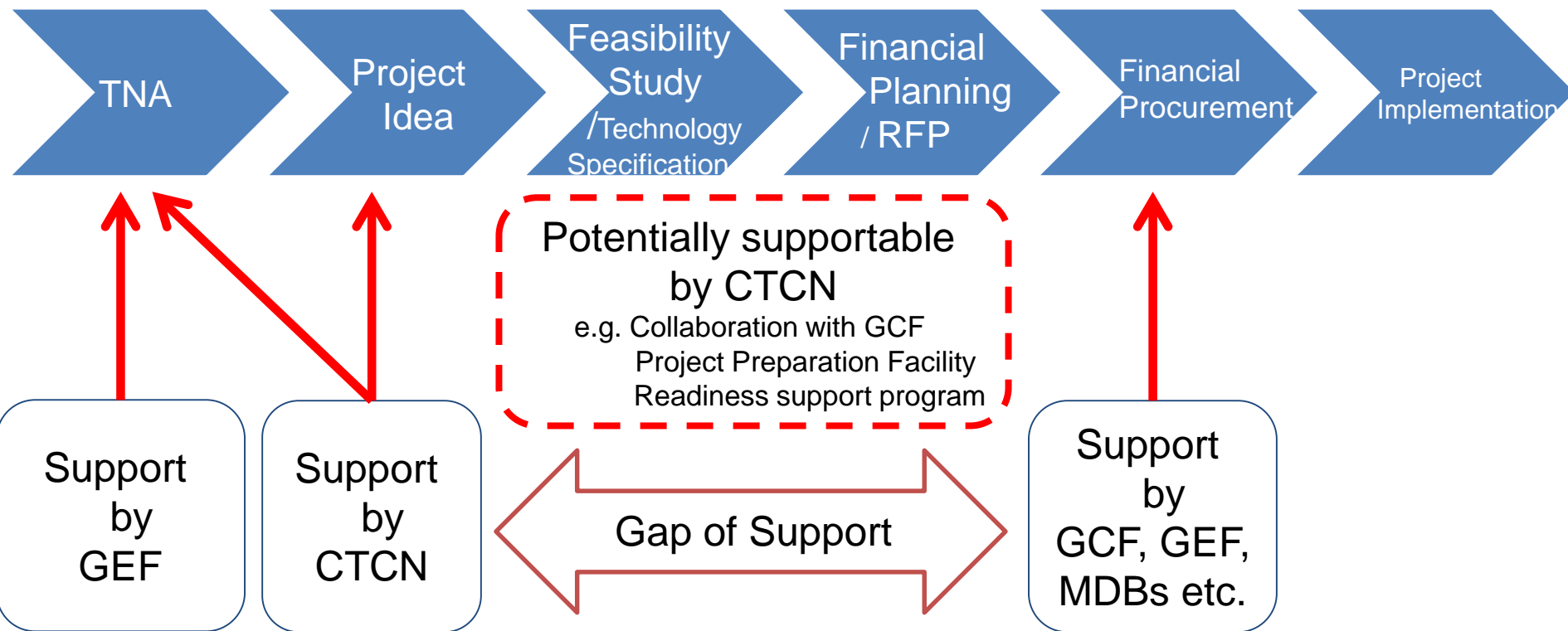
Norihiro (Nori) Kimura

Climate Change Expert Officer,

Global Environmental Affairs Office

METI, Japan

# Flow of climate technology transfer – Current status of policy



## ● COP22 decisions:

- Welcomes the increased engagement between GCF and CTCN
- Invites developing country Parties to use Readiness and Preparatory Support Programme to conduct TNA and develop TAP
- Invites developing country Parties to develop and submit technology-related projects, including those resulting from TNA and from TA of CTCN to Operating entities of Financial Mechanism , etc.

1. Provide technology information to technology library of the CTCN
2. Project development and implementation of the CTCN
3. Feasibility studies for the CTCN and GCF proposal development
4. GCF seminars for the Japanese companies

# 1. Contribution to the technology library

- METI provided technology information in steel, cement, power (incl. PV solar) and chemical sectors and cross-sectoral technology (HP, boiler, etc) to the technology library of the CTCN. (September 2015, April 2016)

< Image of technology information list >

Technology classification			Technology performance				Technology context			Others			
Sector	Classification	Name of technology	Description of technology (including needs addressed)	Differentiators (e.g. efficiency specifications)	Energy saving*GHG reduction	Other benefits (Economic, Social and other environmental)	Maturity	Cost estimation (approx.)	Period for implementation	Additional information (e.g. success factors or preferred policies)	Example of implementation (country)	Reference URL (e.g. images)	Contact point
Steel	Sintering	Sinter Plant Heat Recovery (Steam Recovery from Sinter Cooler Waste Heat)	This device recovers the sensible heat in the hot air with temperature of 250 C to 450 C from a sinter cooler. It comprises mainly; a)boiler/economizer, b)pure water feed device, c)deaerator, d)steam drum, etc. After heat exchange with sintered ore of 500 C to 700 C in the cooler, the exhaust gas is introduced to the boiler/economizer to generate steam and is recycled to the cooler.	Unit recovery of waste heat is on the order of 60,000 kcal/t-sinter.	*Fuel savings: 0.251 GJ/t-sinter *CO2 Reduction: 23.9 kg-CO2/t-sinter  (for 1million ton sinter production capacity) *Annual steam recovery: 60,000*1000000kcal/y *Reduction in crude oil equivalent: 7,500 toe/y	(for 1million ton sinter production capacity) *Economic effect: JPY 458 million/y *SOx, NOx, Dust decrease	proven technology	(for 1million ton sinter production capacity) *Equipment cost: JPY 3,000 million *Construction cost: JPY 500 million *Payback time: Equipment only; 11.6 years, inc. construction cost; 13.5 years	N.A.	N.A.	India	<a href="http://www.iisf.or.jp/business/ondanka/eco/docs/IndiaTechnologyCustomizedListv2.pdf">http://www.iisf.or.jp/business/ondanka/eco/docs/IndiaTechnologyCustomizedListv2.pdf</a> <a href="http://asiapacificpartnership.org/pdf/Projects/Steel/SOACT-Handbook-2nd-Edition.pdf">http://asiapacificpartnership.org/pdf/Projects/Steel/SOACT-Handbook-2nd-Edition.pdf</a>	The Japan Iron and Steel Federation (Tel: +81-3-3669-4837, Email: kankyou1@jisf.or.jp)

## 2. Project development and implementation of the CTCN

### (1) Cement project in South Africa(FS)(December 2016)

- Network member:  
RITE (Research Institute of Innovative Technology for the Earth)
- Technology:  
Waste heat recovery combined with mineral carbon capture and utilization
- METI supported communication between Japanese companies and Association of Cementitious Material Producers of South Africa

### (2) Benchmarking Energy & GHG Intensity in Thailand's Metal Industry (June 2017:tbc)

- Network member:  
NEDO(New Energy and Industrial Technology Development Organization)
- Capacity building:  
GHG calculation training, questionnaire design, development of manual, workshop, suggestion on technology improvement for energy efficiency
- METI provides in-kind support for the project and supports communication between NEDO and Thailand NDE and ISIT

- METI conducted Feasibility studies examining the possibility of supporting CTCN and GCF by Japanese companies.

→ Supported communication/coordination with developing country NDE/NDA and Accredited Entities (AE) of GCF/ Network members of CTCN

(Feasibility studies in FY2016)

- (1) Cement project in South Africa (MUMSS)
- (2) Geothermal project in Pacific region (ERM Japan)
- (3) PV solar project in Malaysia (Mizuho IRI)
- (4) Energy saving project in South America (Asahi Glass)

## 4. GCF seminars for the Japanese companies

- Date: 14:00-16:00, 28 February, 2017
- Venue: METI Conference hall B2F
- Host: METI/Mizuho Information & Research Institute Inc.
- Program:
  - (1) Opening speech (METI, GCF Executive Director(Video message))
  - (2) Outline of GCF rules and procedures (Mizuho IRI)
  - (3) Case studies (UNDP, ADB, Mizuho IRI)
  - (4) Panel discussion (METI, MOFA, 4 experts from private sector)



# Conclusion

- As a Japan's NDE and a Ministry promoting both foreign business and global GHG emission reduction, METI has been supporting Japanese companies which have intention to transfer their low-carbon technologies to developing countries.
- For real business support, METI intends to support the GCF projects/CTCN projects which will lead to request for funding proposal to the GCF.
- In order to conduct matching between Japanese companies and developing countries in this context, communication/coordination with developing country NDE and NDA is crucial. Your needs are key for our next actions!



# Thank you for your attention!

Contact:

Norihiro (Nori) Kimura

Climate Change Expert Officer,

Global Environmental Affairs Office

METI, Japan

Tel. +81-3-3501-7830

E-mail: [kimura-norihiro@meti.go.jp](mailto:kimura-norihiro@meti.go.jp)