



LoCARNet Future Plan

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Who we are?

- Started from 2011 by Japanese proposal to ASEAN plus three Environment Ministers' Meeting.
- Established with a firm conviction that the only way to realise low-carbon/decarbonised Asia along a new pathway is by **fostering domestic and within-region research communities**.
- **Contribute in evidence-based policymaking** by bridging the gap between policymakers and research communities, and **promote region-wide knowledge-sharing with various stakeholders**.

Our activities in FY 2018

- 1.** **ICLCA 2018** (24-26 Oct., JB, Malaysia)
- Co-organise “City Mayor Forum” (24 Oct.)
 - Interim progress meeting (25 Oct.)

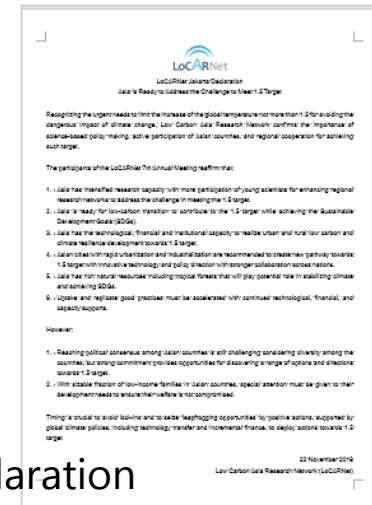


- 2.** “Capacity Building Workshop on Low Carbon Development for Lao PDR and Cambodia” (19 Nov., Vientiane, Lao PDR)



CB workshop in Lao PDR

- 3.** **LoCARNet 7th Annual Meeting** (21-22 Nov., Jakarta, Indonesia)
- 1) Bottom-up jurisdictional innovation to unlock the potential of tropical forests as a climate change solution;
 - 2) Mitigation in Asia – Lessons learnt from actions taken by various stakeholders;
 - 3) Urban and rural low-carbon and climate resilience development;
 - 4) Innovative monitoring, reporting and verification system in Asian countries



- 4.** COP24 side-event

LoCARNet Jakarta Declaration

Some insights from FY2018 activities

- LoCARNet members have played key roles in capacity development in Asia by delivering their knowledge and experiences. Japan also can learn from Asia.
 - CB workshop for Lao PDR and Cambodia (Prof. Ho, Dr. Bundit gave lectures)
 - ICLCA 2018 and 7th AM (Promote active participation of young researchers)
 - AIM training WSs (SIIT-TU has hosted several training WSs.)
- Annual meeting provides good opportunities not only to exchange pressing/state-of-the-art topics in Asia, but to promote collaboration with other institutes.
 - Special lecture on SR1.5
 - Session on potentials of tropical forests (INOBU and IPB)
- Facilitate more active participation/involvement of young researchers

LoCARNet activities in FY2019 and beyond

- CB workshops?
- Annual meetings?
 - Timing / place ??
 - Potential collaborators??
- Publish a book "Asia Is Ready to Address the Challenge to Meet 1.5 Target"?
- Scope of LoCARNet → Not only mitigation, but also...
 - Adaptation ??
 - Land-use, forests ??
 - Circular economy ??

LCS-RNet enters a new phase!

- Considering the growing importance of scientific support to climate policy processes after the Paris Agreement, LCS-RNet members have discussed the future of LCS-RNet, and decided to strengthen the network **as a group of action-oriented researchers**.
- To transition to a decarbonised society within the limited time remaining, the research community needs to not only provide scientific knowledge to stakeholders but also **proactively take on the role of actual “change agent” in society**.
- And, it has introduced a **“common agenda approach” (joint research scheme) to boost the level of activities** amongst member institutes.

LCS-RNet 5 years Ahead – New Role of Research Communities in Transition towards Decarbonised Societies

- Science assumes a **new, more transformative and facilitatory role** in coming up with solutions. The process and methods of science should derive from the goal of '**service to society**'.
- Science needs to be more **inter-/trans-disciplinary**.
- **Collaboration with non-science actors** becomes important, where continuous interaction and dialogue with other stakeholders in society should take place.
- It also implies the growing importance of "**action research**" focused on solving critical societal problems.



**Your comments and suggestions
are highly appreciated!**

**Thank you for your active
participation.**

Looking ahead to 2050 and onwards, eight fields to be tackled over the next five years

1. Providing support in **strengthening NDCs** in each country; formulating policies to pursue steady implementations; contributing to the UNFCCC's global stocktaking process
2. Development and assessment of long-term (**beyond 2050**) low-carbon society strategies
3. Deployment of **carbon pricing policies**
4. Making the overall **supply chain** low-carbon, from consumption to production
5. Encouraging "**Non-state Stakeholders**", the key players in the transition to LC societies
6. Promotion of IPCC and Future Earth-related **scientific activities**
7. Strengthening **science-based policymaking** and fostering capacities towards realising low-carbon development
8. Recognising the **critical and expanding role of research communities** making it happen for decarbonised societies

What are the emerging research agendas to be tackled jointly? (1/2)

1. Comparative study on **long-term strategies and scenarios** (ADEME, CIRED, IDDRI, WI, NIES/IGES)
2. Development of **"template"** for enhancing transparency of models: tools for simplifying cause-result relations in scenario/models (CIRED, WI, (NIES))
3. **Toolkit/Dashboard** approach for comparison of NDC/LTLCS performance (IDDRI, NIES/IGES)
4. Transition strategies of **energy intensive processing industries**: How do we deal with the hard core of GHG emissions? (WI, IGES/NIES)
5. Analysis of **energy-materials relationship**, for deep-reaching cuts into energy use throughout the entire cycle linking consumption and production. (WI, NIES (Modeling), IGES (SCP))
6. New LC **financial mechanism** to promote world economy: How low carbon investment can revitalise stagnant world economy. (CIRED with Brazil and India)

What are the emerging research agendas to be tackled jointly? (2/2)

7. Deployment of **“carbon pricing” policy**: Limiting usable carbon (Carbon Budget) inevitably involves carbon pricing policy; the ongoing argument concerns its design, in domestic and international contexts. (CIRED, WI (Carbon Market/ CDM), IGES (JCM), ERI, Korea (Carbon Market))
8. Joint research with developing countries on **Long term, low-carbon development strategies**: Developing/emerging countries hold keys to global GHG emissions reduction. Collaboration with such countries to foster/strengthen science-based policy making is one of the issues that research community can contribute. (ADEME, CIRED, ENEA, NIES/IGES, Brazil, India, China, ASEAN, Africa)
9. Co-work for **Alternative pathways / Leapfrog development**: Small developing countries that are already carbon neutral have potential to be front-runners in low carbon development? (WI with Iran GIZ, ENEA with Comoro, IGES/NIES with Bhutan)
10. **Participatory process** for designing long-term LC Strategies (DGEC (Direction Générale de l'Énergie et du Climat), IGES)