

Climate Change Expert Meeting in Washington D.C.
Equitable Global Low Carbon Scenario and Approach

After the determination of the pledge and review approach for negotiating the post-Kyoto agreement at COP20 of UNFCCC, top down approaches against global warming became less noticed. However, an equitable global low carbon scenario towards 2 degree target is still necessary for both review process and PDCA cycle following the new agreement.

The Canon Institute for Global Studies (CIGS), a research NPO in Tokyo, is carrying out a project for developing a new post-Kyoto climate regime that is scientifically sound, economically and technologically rational, and politically pragmatic. The key elements of the regime are summarized as the following.

- (1) Instead of the traditional 450ppm equilibrium stabilization of IPCC, a new scenario based on zero-emission and overshoot schemes was proposed. The scientific examinations demonstrated that the so called Z650 scenario could avoid long-term risks while meeting short term need of relatively large emissions. The scenario is in the category of 500ppm with overshoot defined in IPCC AR5.
- (2) The technical feasibility and the economical rationality of the Z650 scenario were demonstrated through numerical experiments of global energy system optimization. Compared with the reference case, the additional investments in Z650 scenario could be covered by the fuel savings during the following 40 years (2010-50) both globally and regionally.
- (3) The simulated regional emission curves reflect the differences of financial and technical capability among areas, which provide useful information for global harmony.
- (4) A global energy vision that is globally effective while regionally feasible was obtained, and the numerical experiments indicate that the low carbon technology deployment and transfer is the key to achieve it.
- (5) Within a technology oriented international scheme, trilateral cooperation between Japan, US, and China, those have complementary relationships for CO2 emission reduction, can play essential role.

At the planned expert meeting, we would like to discuss and exchange opinions with experts from the leading think-tanks in Washington D.C. on the global low carbon scenario and the trilateral cooperation in detail.