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To: Monique Barbut
Chief Executive Officer and Chairperson
Global Environment Facility
Email: gcoordination@TheGef.org

Subject: Additional Comments by Germany on Intersessional Work Program
March 2010 – Projects:
35. Chiller Energy Efficiency Project (Indonesia)
40. Lighting and Appliances Efficiency (Mexico)

Dear Ms. Barbut,

In addition to our comments from 4 March 2010 we would like to add the following comments:

Germany agrees to approve the whole Intersessional Work Program March 2010, including the above mentioned projects number 35. and 40. with the following comments:

It is the common understanding of Germany and the Worldbank as the Implementing Agency of the above mentioned projects that the project formulation, which would start upon PIF approval, will determine the most appropriate technologies and cooling agents / refrigerants to be employed in the projects on the basis of technical viability, environmental-soundness, cost-effectiveness, energy efficiency etc., in view of the country context. HFC-134a has been used in the PIFs to calculate a most conservative estimate of net CO2 emission reductions from the projects.

Germany views HFC-134a due to its high global warming potential of 1,300 not as the optimal refrigerant.

With regard to project **35. Chiller Energy Efficiency (Indonesia)** Germany suggests to employ R 717 (ammonia) (in some cases R 718 (water) may also be feasible) as cooling agent for new chillers, in order to tap the full climate mitigation potential of the project. Ammonia has a GWP of zero. Ammonia is commonly available at reasonable costs for new chillers on the international market and is already in use in some developing countries. In the case of roof-top chillers hydro-carbons (R 290) are also a viable alternative for HFC-134a.

With regard to project **40. Lighting and Appliances Efficiency (Mexico)** Germany suggests to employ hydro-carbons (R-600a) as refrigerant for the new refrigerators. R-600a has a GWP of 1 and refrigerators with hydro-carbons are generally more energy efficient. Refrigerators with hydro-carbons are currently being introduced in the market in both developed and developing countries.

The World Bank has confirmed that the choice of refrigerant technology for the entire sector has not been made for these two projects and has committed to fully explore the use of natural refrigerants in these projects.

Matthias Seiche
on behalf of
Frank Fass-Metz