



IIR Working Party

Life Cycle Climate Performance Evaluation

Meeting Minute

Fifth Meeting at Huang Zhou, China on September 2, 2014

1. LCCP WP Overview by Yunho Hwang

Yunho Hwang gave overview of LCCP WP Timescale, Plan, Deliverables, WP Website

2. Presentations:

2.1 An extensible framework for life cycle climate performance based design and evaluation of HVAC&R systems: overview and case studies by Vikrant Aute (University of Maryland)

- Introduced ORNL/UMD's LCCP framework concept
- Introduced ORNL/UMD's LCCP tools in web version and desktop version
- Case studies were presented.

2.2 Brief on acquirement of fundamental data of LCCP calculation in China by Baolong Wang (Tsinghua University)

- As a cooperative effort from China, Chinese direct and indirect emission information was collected.
- Recent Chinese effort for emission data collection was introduced.

2.3 Drop in life cycle climate performance of low GWP R-410a alternatives for heat pumps by Gang Li, Abdullah Alabdulkarem, Yunho Hwang, Reinhard Radermacher (University of Maryland)

- The drop-in LCCP of R-32, L-41a, and D2Y60 have been investigated as the alternative low-GWP refrigerants to R-410A in heat pump systems.
- Results showed that R-32 has 4% LCCP reduction as compared to R-410A baseline.

3. Discussions

3.1 Annual Emission

There were discussion on annual emissions from different systems and different emission options.

4. Next Meetings

Our next meetings are suggested in conjunction with ASHRAE Winter Meeting in January 2015 and International Congress of Refrigeration in Japan in August, 2014.

Contacts for Membership in this WP

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