

Indonesia's Standards & Labelling Programmes for Refrigeration and AC

Lessons learned

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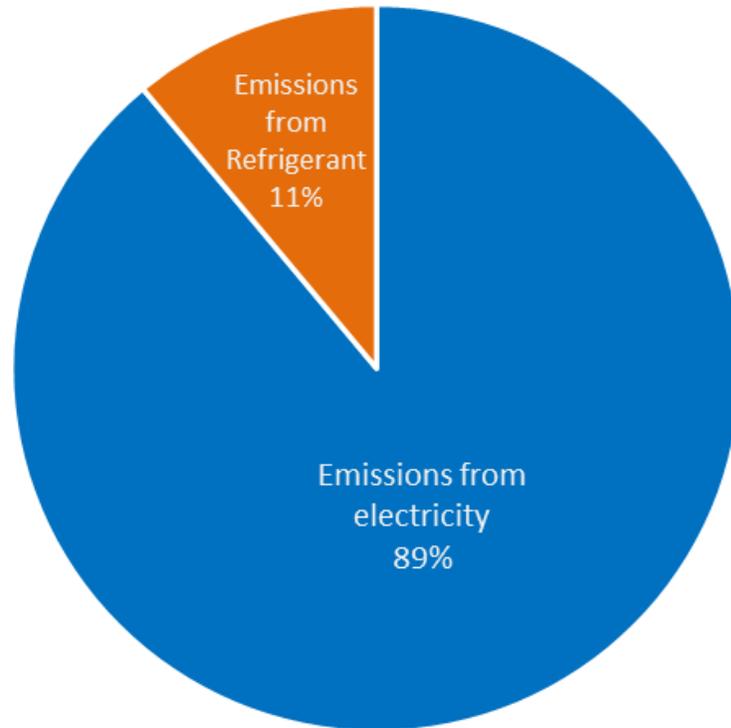
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Work Experience on RAC in Indonesia:

1. Lecturers of Refrigeration and Air Conditioning Engineering Department in Bandung State of Polytechnic (1994-2007)
2. Developed 4 new study program of RAC in State Polytechnics (2002-2006)
3. Co-chair of Refrigeration Technical Working Group on HPMP-1 proposal development (2009-2011)
4. President (Chairwoman) of ASHRAE Indonesia Chapter (2015-2016)
5. Board of Governor of ASHRAE Indonesia Chapter (2016-present)
6. Technical Consultant for Green Chiller NAMA Project with GIZ (2015-2018)
7. Refrigeration Technical Committee member of National Standard Agency (2015 – present)
8. CLASP Program Advisor for appliances and equipment policies (2019-present)

Emissions from Air Conditioning



Environment friendly system is not only about refrigerants, energy consumption has the major portion of emissions

Source: Refrigeration and Air Conditioning Greenhouse Gas Inventory for Indonesia, GLZ Green Chiller NAMA, 2017

Why Standards and labelling programs are very important? :

- Huge energy savings potential from energy efficient products considering current technology availability.
- Providing authoritative guide to select high performance products

Standards and labelling Program barriers in Indonesia

- Significant gap in energy efficiency knowledge and consumption
 - People in the middle class tend to worry more about electricity bill
 - People in the upper class are likely to perceive that energy consumption as less significant due to low energy tariff.
- People do not yet understand well on Environmental issues from energy consumption point of view.
- Market price for high energy performance products are still expensive.
- Still too many low quality products with very cheap price in the market.
- Manufacturers are not confident to lead market transformation toward high energy performance products.

National efforts undertaken to address issues barriers:

- Market study on electrical appliances
- *Setting MEPS and labelling policies*
- Public awareness
- High energy performance building standards development
- Strengthening testing infrastructures

Indonesia Standards and labelling program for split AC:

- Indonesia started MEPs regulation for split AC in 2015 with low level of MEPs to be revised every 2 years → there was no data yet
- In August 2017 regulation revision was made by phasing out one star products from the market (products with 1 star did not allow to be sold/imported)
- In August 2020 the 2nd revision was made by phasing out the two stars products.
- Since 2020 Indonesia has followed ASEAN SHINE program on MEPs harmonization
- This MEPs level does not give any significant emission reduction yet, because most of products already has 4 star level.

Conclusions:

- Standards and labelling programs are very important
- Regional harmonization will help to facilitate fair market transformation and empower manufacturers to innovate and provide high quality products
- Regional harmonization will only give better impact if it is set stringent level of MEPS

THANK YOU...