

Ref: NEA-CMD-CIRCULAR-CPA-00001-2024

Date: 30 Jan 2024

Chief Executives & GHG Managers of Taxable and Reportable Facilities under the Carbon Pricing Act

Dear Sir/Madam,

Minimising Greenhouse Gas Emissions from Industrial Refrigeration and Air-Conditioning Equipment and Systems

NEA encourages companies to put in place an effective maintenance regime for industrial refrigeration and air-conditioning equipment and systems such that the refrigerant leaks are detected and fixed early. Greenhouse gases such as hydrofluorocarbons (HFCs) are commonly used as refrigerants for such equipment and systems.

2 Companies can consider implementing measures listed below:

- a. Conduct more frequent physical checks by internal maintenance team and look out for signs of refrigerant leaks such as frost or ice buildup on the compressor/condenser unit, changes in airflow and temperature, hissing sound near joints or valves, and increased energy consumption.
- b. Incorporate leak checks under the periodic maintenance by trained technician for your refrigeration and air-conditioning equipment and systems.
- c. Link the refrigerant leak detector in the plant room to the plant's centralised monitoring system to closely monitor the occurrence of any leakage.

3 Implementing such measures minimises GHG emissions to the environment and business costs borne by companies (e.g. operating costs for refrigerant top-ups, payment of carbon tax etc).

4 Should you have any queries, please contact your CPA account officers.



Suresh K
Director (Carbon Mitigation Division)
National Environment Agency