

How to join the Fresh Water Cooling Towers Scheme (FWCT Scheme)

• Fresh Water Cooling Towers Scheme

The scheme applies to all existing or new non-domestic buildings and other buildings, where the use of fresh water for evaporative cooling is supplied for non-domestic usage within the designated area.


• Participation

You may apply to Electrical and Mechanical Services Department (EMSD) for participation in the scheme and Water Supplies Department (WSD) for water connection.

• Benefits

Water-cooled air conditioning systems (WACS) using fresh water cooling towers (FWCTs) for building is generally more energy-efficient, consuming up to 20% less electricity than air-cooled air conditioning systems (AACS).

For new buildings using FWCTs – A way of ascertaining or improving the end-use energy efficiency of the air conditioning system.



For existing buildings already using FWCTs - To facilitate the owners of FWCTs to seek permission from the Water Authority (WA).

For existing buildings converting from AACS to WACS using FWCTs – A way of saving energy of the air conditioning system.

• How to Apply

Submit an application to EMSD with cooling tower system proposal using Form **EMSD EE CT1A** to obtain support from EMSD in participation of the scheme.

Submit the details of the cooling tower installation to EMSD by using Form **EMSD EE CT1B** to obtain approval from EMSD to commence the installation work.

Submit the plumbing proposal and Form **VVO542** to WA for approval.

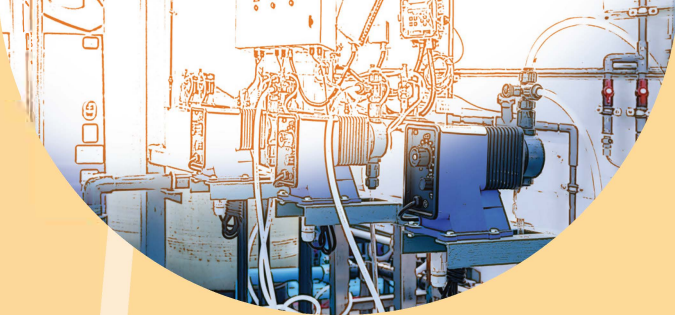
Employ a registered professional engineer to notify EMSD using Form **EMSD EE CT2B** (or **EMSD EE T2A** for installation to be completed in phase) together with Form **EMSD EE CT3** to certify the cooling tower system is completed.

Employ a licensed plumber and notify WA by Form **VVO46** before commencement and upon completion of plumbing works.

Installation of the cooling towers should also comply with other related statutory requirements, e.g. Buildings Ordinance and Building (Minor Works) Regulation.

The approval granted for each stage of submission by means of Form **EMSD EE CT1A** or Form **EMSD EE T1B** has a **validity of five (5) years**, counting from the approval date of each application.

• Obligation



Keep records of the operating conditions, performance and water quality of the cooling towers regularly by recording in Form **EMSD EE CT3**; and submit annual audit report to EMSD each year.

• Application Fee

EMSD would not charge any fee for application.

• Relevant information of application

Fresh Water Cooling Towers Scheme Brochure

Code of Practice for Fresh Water Cooling Towers

Part 1: Design, Installation and Commissioning

Part 2: Operation and Maintenance

Part 3: Water Treatment Methods

• Enquiry

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