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**Technical declarations for the
planning of a cogeneration system**

ICS 27.010

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Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law:

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Technical declarations for the planning of a cogeneration system

Introduction Cogeneration system (hereafter referred to as “CGS”) is a system to supply simultaneously electric power (or power) and heat, and it produces an effect when the supply and use of energy coincide. This Standard specifies the items to be examined appropriately; in introducing the CGS, the planning, design, and assessment.

1 Scope This Japanese Industrial Standard declares the matters to be examined when introducing the CGS in civilian buildings.

Even for the properties not for civilian use, the planning, design and assessment should be made in accordance with this Standard.

2 Normative references The following standard contains provisions which, through reference in this Standard, constitutes provisions of this Standard. The most recent editions of the standard (including amendments) indicated below shall be applied.

JIS B 8121 *Terms and definitions of cogeneration systems*

3 Definitions For the purpose of this Standard, the definitions given in **JIS B 8121** and the following definitions apply:

- a) **monthly pattern** the values expressed with the monthly divided values of the variation of annual load, or their rates
- b) **time-zoned pattern** the values of the variation of daily load which are averaged at every hour, or their rates
- c) **week day pattern** the values of the variation of the load on a week day which are averaged at every hour, or their rates
- d) **holiday pattern** the values of the variation of the load on days other than week days which are averaged at every hour, or their rates
- e) **auxiliary heat source** of the heat source apparatuses for supplying the heat to the buildings, the apparatuses other than CGS such as steam boiler, hot water boiler, direct fired absorption heater chiller, electric refrigerator and so on
- f) **initiative cost** the cost required for introducing CGS
- g) **running cost** the cost required for operating CGS
- h) **maintenance cost** the cost required for the maintenance for keeping CGS in a normal condition
- i) **number of years for simple recovery** the value obtained by dividing the increased amount of initial cost due to the introduction of CGS by the decreased amount of running cost. It makes an economical barometer.
- j) **preventive maintenance** the maintenance made intentionally for preventing in advance the failure of CGS such as check, repair, adjustment, exchange, etc.