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**Terms and definitions of
cogeneration systems**

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Foreword

This translation has been made based on the original Japanese Industrial Standard revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Center for Promotion of Natural Gas (CPNG)/Japanese Standards Association (JSA) with the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14.

Consequently **JIS B 8121:2001** is replaced with this Standard.

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Terms and definitions of cogeneration systems

1 Scope

This Japanese Industrial Standard specifies the main terms concerning system general, environment, plan and management, management control, components, etc. among the terms used on cogeneration.

2 Terms and definitions

Terms and definitions are as follows.

In addition, English equivalent is shown for reference.

NOTE : NOTE in the informative column is written together in order to improve understanding.

2.1 System general

a) General

No.	Term (Japanese character)	Reading	Definition	Informative	
				English equivalent	NOTE
1101	コージェネレーション	KÔZYENERÊSYON	handling which simultaneously generates electric power and/or motive power, and effective heat from single or multiple energy resources	cogeneration	
1102	ガスエンジンコージェネレーション	GASU ENZIN KÔZYENERÊSYON	cogeneration operated by using a gas engine as a prime mover	gas engine driven cogeneration	
1103	ガスタービンコージェネレーション	GASU TÂBIN KÔZYENERÊSYON	cogeneration operated by using a gas turbine as a prime mover	gas turbine driven cogeneration	
1104	ディーゼルエンジンコージェネレーション	ZÎZERU ENZIN KÔZYENERÊSYON	cogeneration operated by using a diesel engine as a prime mover	diesel engine driven cogeneration	
1105	コージェネレーション ユニット CGU	KÔZYENERÊSYON YUNITTO SÎZÎYÛ	unit which simultaneously generates electric power and/or motive power, and effective heat from single or multiple energy resources, which consists of a prime mover (a gas engine, a gas turbine, a diesel engine, etc.), a generator, an exhaust heat recovery facility, etc.	cogeneration unit	
1106	コージェネレーション パッケージ CGP	KÔZYENERÊSYON PAKKÊZI SÎZÎPÎ	type of CGU in which all the constituent equipment is accommodated in an enclosure with a generator panel and /or a heat recovery facility separately installed	packaged cogeneration system	
1107	コージェネレーション システム CGS	KÔZYENERÊSYON SISUTEMU SÎZÎESU	system which simultaneously generates electric power and/or motive power, and effective heat from single or multiple energy resources, supplies and utilizes them, which refers to a system consisting of a CGU, a grid-connected operation facility, an exhaust heat utilization facility, etc. as main equipment	cogeneration system	

No.	Term (Japanese character)	Reading	Definition	Informative	
				English equivalent	NOTE
1108	蒸気回収コージェネレーション	ZYÔKI KAISYÛ KÔZYENERÊSYON	cogeneration which generates steam as a means of effective heat recovery	cogeneration providing steam	
1109	温水回収コージェネレーション	ONSUI KAISYÛ KÔZYENERÊSYON	cogeneration which generates hot water as a means of effective heat recovery	cogeneration providing hot water	
1110	蒸気・温水回収コージェネレーション	ZYÔKI ONSUI KAISYÛ KÔZYENERÊSYON	cogeneration which generates steam and hot water as a means of effective heat recovery	cogeneration providing steam and hot water	
1111	従来システム	ZYÛRAI SISUTEMU	system which serves as a subject of comparison in order to calculate the introduction effect of a CGS For example, a system in which commercial electric power, a boiler, a refrigerating machine, etc. are combined	alternative conventional system	
1112	蒸気噴射サイクル	ZYÔKI HUNSYA SAIKURU	cycle which injects part or all of steam generated by an exhaust heat recovery steam generator to the combustor of a gas turbine and activates the turbine with the mixed gas of combustion gas and steam in a gas turbine CGU	steam injection cycle	
1113	コンバインドサイクル	KONBAINDO SAIKURU	cycle in which a high-temperature heat engine cycle and a low-temperature heat engine cycle are combined in series For example, a combined cycle in which a gas turbine and a steam turbine are combined	combined cycle	
1114	コージェネレーション ユニット補機	KÔZYENERÊSYON YUNITTO HOKI	auxiliary facility required for the operation of a CGU (for example, a heat recovery pump and a cooling tower utility)	essential auxiliary of CGU	