Gas

Operation Indicator

Category	Name	Policy and method of establishing the indicator	Target	Purpose	Remarks
Basic	Production or Transmission Volume of	Nm³/ year	Planned value at the	To confirm how gas	This indicator is set assuming that the projects include
	Gas by Kind of Product	Gas heating value (MJ/N m ³)	time of appraisal	production and	installation of gas pipeline. Heating value and
		Gas constituents (CH ₄ , C ₃ H ₈ , CO, H ₂ , etc.)		transmission facilities are	constituents vary depending on the methods of gas
				operated	production and kind of product, and are to be described
					with the value. (Targets of the indicator are gas
					production facilities: Heating value and constituents
					are necessary when establishing environment indicators)
					Many gas projects facilitate conversion from other fossil
					fuels such as oil and coal to gas due to rising
					environmental concerns. Accordingly, it is desirable to
					continuously collect data on demand that is detailed to
					some degree, as well as data on energy consumption of
					the other fossil fuels. It is also necessary to collect
					detailed data on gas constituents because energy supply
					(heating value) varies depending on the gas constituent.
Basic	D 1 (1 T 1 1	As shown by the name of the indicator	To be discussed with	To confirm adequate	Regarding gas production and transmission, not only
	Production, Transmission or		the executing	operation	supply interruption duration but also the duration for
	Supply Interruption Duration		agency		which the gas pressure is dropped is required to be
					monitored.
	(Hours)				
	(According to the cause: human error,				
	machine trouble, natural disaster, and				
	planned outage)				

Effect Indicator

Category	Name	Policy and method of establishing the indicator	Target	Purpose	Remarks
Basic	Gas Sales Volume by Type of Beneficiary	Nm ³ / Year	Planned value at the time	To confirm gas sales volume by type	It is assumed that this indicator is adopted for the
	(for household, industrial, or commercial		of appraisal	of beneficiary (for household,	gas supply project.
	use)			industrial, or commercial use)	
Basic	Gas Dissemination Rate (%)	Number of beneficiary	Number of households	To assess the level of dissemination of	It is assumed that this indicator is adopted for the
		households/ total number of	planned at the time of	gas service for household use in the	gas supply project for general households.
		households	appraisal	target areas	When it is difficult to follow the continuous
					increase in the number of households due to
					urbanization, the numbers of beneficiary
					households in each year and dissemination rate
					can be used together.

Environment Indicator

	Category	Name	Policy and method of establishing the indicator	Target	Purpose	Remarks
4	Auxiliary	Decreased Volume of Pollutant	t / Year	Planned value at the time	To assess the effect of environmental	It is worked out based on the volume of energy
		(decreased volume of SO _x , dust, CO ₂ ,		of appraisal	improvement that accompanies	converted (for example, from coal to gas).
		etc.)			energy conversion	However, it should be noted that the volume of
						pollutant emitted at the time of gas production is
						required to be considered.