The Project for Gas Network System Digitalization and Improvement of Operational Efficiency in Gas Sector in Bangladesh

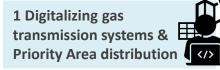
Project Period: Feb 2020-Dec 2022 (3 yrs) JICA Experts : Nippon Koei, Geoplan Namtech Osaka Gas, Osaka Gas Engineering, Pasco



OVERALL GOAL: Reliable, effective and efficient gas & power supply for economic development of the country is achieved.

PROJECT PURPOSE: Operation of gas system and power stations is digitalized and operational/ planning efficiency, system reliability, and process safety are enhanced.

PROJECT ACTIVITIES:



1.1 Update Gas Flow Diagram, line and valve station list
1.2 Modeling & digitalizing gas transmission pipeline systems
1.3 Modeling & digitalizing Distribution Priority Area
1.4 Training for operation of digitalized system
1.5 Update a list of power plant

1.5 Update a list of power plant with associated data in digitalized system



4.1 Provide training program,
(i) LNG terminal
(ii) gas transmission and
distribution system, with a
scope of OHSAS 18001
4.2 Propose the revised
safety rules for authorization

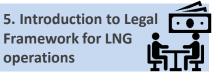
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Training for operation & planning 2.1 Design of SCADA system for monitoring and process control 2.2 Gas flow analysis

2.3 Existing system improvement and future pipeline infrastructure planning

2.4 Propose measures for improving operational efficiency in gas utility companies

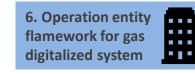


5.1 Identify responsible for LNG legal framework and LNG terminal operators or suppliers to use gas transmission system
5.2 Propose legal framework for Capacity Right and Quality
Compensation system
5.3 Provide Capacity Building exercise in contract affairs

3. Design standard, material spec & standard drawings

3.1 Review of existing design standard, material specifications, and standard construction drawings
3.2 Prepare guideline for design standard and material specification for new project

3.3 Prepare revised material identification coding system



6.1 Study and analysis for optimal system operation entity
6.2 Prepare recommendation about framework of appropriate system operation entity



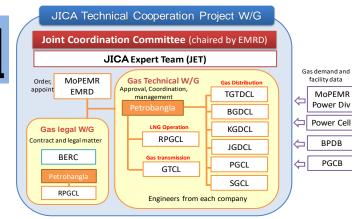


Drawings for Digitalization





Safety Management



Implementation Structure Japan International Cooperation Agency