



# DeltaV Product Information CD

## SUCCESS STORIES

### Kvaerner Power Gas

#### Kvaerner Power Gas opts for DeltaV and fieldbus in Alexandria, Egypt carbon black plant

Kvaerner Power Gas (KPG) selected the DeltaV automation system, and PlantWeb architecture from Austin, Texas-based Fisher-Rosemount for Alexandria Carbon Black Co. (ACBC), to control its third carbon black producing unit. KPG and ACBC insisted on a technology that could deliver key benefits like reduced process variability, reduced engineering and installation costs, and reduced maintenance costs.

#### Background

ACBC is Egypt's only producer of Carbon Black. Since its inception, ACBC has expanded twice to increase capacity. Each of two plants consists of about 120 control loops, 150 monitoring loops and 500 discrete I/O.

#### System Selection

For this expansion, the company wanted to:

1. Select a control system with tomorrow's technology.
2. Take advantage of digital communication with field
3. Reduce overall automation costs.
4. Allow for future system expansion and expandability.

ACBC selected the DeltaV system from Austin, Texas-based Fisher-Rosemount, which interoperates not only with FOUNDATION fieldbus devices, but also with H1 bus communication. The system's interoperability test report was available for necessary approval. The DeltaV system is the nucleus of Fisher-Rosemount's PlantWeb field-based architecture, which leverages the power of intelligent field devices in an integrated suite. In addition to the DeltaV system, Fisher-Rosemount supplied H1 cards, AMSInside package, and over 50 FOUNDATION fieldbus-certified devices for the project.

#### Engineering and commissioning

KPG was involved in all aspects of engineering of the system and found it user friendly for engineering and commissioning. Loops started functioning as soon as communication was established between controller and field devices. This resulted in large savings in time and worry for loop checking.

#### Cost savings

ACBC found substantial cost savings in hardware, installation, and commissioning time compared to its older, conventional system. Rough estimates indicate:

- a. 60% saving in multi-pair cabling.
- b. 20% reduction in cable trays.
- c. Fewer cabinets in control room and reduced energy requirement for HVAC.
- d. 50% reduction in installation and loop checking time.

KPG's P.V. Thakkar, a principle in the system's implementation work, said, "When we started calculating the savings, the total accounted for a significant portion of the total instrumentation costs.

TASK	REDUCTION	SAVINGS
Terminations	25%	
I/O Cards	30%	
System/Marshalling Cabinet	25%	

- Home
- Product Data
- Key Technologies
- Success Stories
- News
- Map
- Contact Us



Control Room Area	20%	\$4,460
Cable		\$334,500
Cable Trays		\$1,115
Man days for loop checking	60 days	\$89,200

Says M.N. Saha, Engineering Manager for KPG India, " If the potential of the system could be exploited in full, further saving could have been achieved".

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