ENERGY RECOVERY IN PIPELINE SYSTEMS.
ENERGY RECOVERY IN PIPELINE SYSTEMS

All over the world pipeline systems are a vital part of everyday life. Pipeline systems are high-tech and complex assets and transport all kinds of liquids over long distances.

VISION
Pipeline system operation requires a great amount of energy to power pumps and all associated auxiliary devices. Depending on the overall configuration of the system, remaining potential energy often has to be dissipated at dedicated points, by means of pressure control valves. Thus pipeline systems offer great potential for recovering energy. The sustainable and efficient use of energy, as well as the identification of potential for energy savings, are becoming a major focus for pipeline operators, due to increasing energy prices and the growing need to meet climate protection targets.

MISSION
The aim is to implement energy recovery facilities in existing pipeline systems and incorporate such facilities already in the design of new pipelines, whenever the pipeline system configuration offers sufficient technical and economic potential.

ILF SERVICES
By combining extensive know-how and great experience with the objective of thinking one step ahead, ILF can provide customized and highly efficient solutions for the design and modernization of pipeline systems.

ILF’s Quick Check Analysis Method enables decision-makers to assess the energy recovery potential of their pipeline systems, and subsequently choose the most appropriate technical and economic design approach for the required facilities. Energy recovery systems help reduce operating costs on the one hand and create a positive public image on the other, thus being of considerable benefit and interest to pipeline operating companies.

Energy savings in the range of a single-digit percentage of total energy input are possible.

FUNDAMENTALS
To assess the potential for energy recovery a comprehensive knowledge of the respective pipeline system is needed.

ADVANTAGES OF ENERGY RECOVERY SYSTEMS FOR PIPELINE OPERATORS
• Sustainable and efficient use of energy
• Reduction of operating costs (OPEX)
• Enhanced public “green” image
• Avoidance of slackline sections (in product pipelines)
• Continuous availability of the pipeline system
• Reliable operation

WHY CHOOSE ILF?
Be part of ILF’s unique selling proposition – USP – and benefit from the following:
• Competitively-priced assessment of energy recovery potential using ILF’s Quick Check Analysis Method
• ILF’s extensive know-how in the area of pipeline design and operation
• Working with the company experienced in the engineering and construction management of the world’s first crude oil power plant which uses a Francis turbine for energy recovery

"As an innovator, identifying ways of energy recovery in pipeline systems is our aim.”
Josef Mayr, Managing Director

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PUMP SYSTEM
GRAVITY SYSTEM

POTENTIAL FOR ENERGY RECOVERY