

## Analisis Pola Investasi Instalasi Pipa Distribusi Gas Bumi berbasis Rumah Tangga dengan Aplikasi Analisa Resiko

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### Abstrak

*The gas usage for household is less than gas usage for industries. PGN gas is delivered to industrial sector greater than 98%, while household sector less than 2%. Lack of gas distribution infrastructure to the customer location is a constraint for exploiting of gas. In this study, investment pattern to develop the gas distribution pipeline was investigated for energy substitution of BEM in the household sector on the chance to decrease subsidy. As the case study, some house estate in Tangerang were selected which are house estate of I. Angkasa Pura 2; II. Batuceper Permai and Polri Batuceper both are existed in Batuceper Ward; III Kehakiman, Kehakiman 1 and Kehakiman 2 in Tangerang Ward; and IV. Simprug di Poris, Tamara Porisgaga, Taman Poris, Poris Indah and Cipondoh Makmur in Cipondoh Ward. By using software of Oil Gas and of Economic Model (OGEM) economics calculation for getting gas distribution fee is done. For estimating government investment aid the approach of gas price is equal to kerosene price as Rp 2.700,- per litre that assumed as willingness to pay of the society. The calculation result shows that financing aid from the Government is still needed for the development of gas distribution pipeline for each selected location are 55% ,65%, 40% and 30%. Government participation on the investment for developing pipeline will save in this case no more subsidy starting on 28%, 41", 15" }? and 12nd month .The project will attract for the investor if it has certainty level in the investment feasibility at least equal to 80%. In this study by using Crystal Ball simulation, with the certainty level 80% yielding IRR about 19% which is indicating that cultivation of investment is being feasible.*