

AMMONIA & UREA PLANT ENERGY CONSUMPTION CALCULATION

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Introduction

This Technical Paper describes how one can calculate the energy consumption of an ammonia and urea plant.

AMMONIA PLANT ENERGY CALCULATION

(This is just example)

Ammonia Energy depends upon following parameters:

1. Natural gas energy
2. Steam energy
3. Power energy

1. Natural Gas (NG) energy

NG energy

$$= \frac{\text{NG consumed for ammonia plant (feed + fuel)} \times \text{NG LHV}}{\text{(Ammonia daily production)}}$$

$$= \text{G. Cal} / \text{T NH}_3$$

NG Consumption for ammonia Plant (feed + fuel) = 1.6415 M. sm³

NG LHV = 8134 K Cal/sm³

Ammonia production = 1850 mtpd

$$= \frac{1641500 \times 8134}{1850 \times 1000000}$$

$$= 8.097 \text{ G. Cal/T NH}_3$$

2. Steam Energy export

$$= \frac{[(\text{SH Export to Urea-II} - \text{SH import from CPP}) \times 805 + (\text{SM to CT} + \text{SM to Urea hydrolyser}) \times 750 + (\text{SL export to CPP}) \times 650 - (\text{SM import from CPP}) \times 716]}{\text{divided by the ammonia daily production}}$$

Ammonia Plant Of Nfl Manual

Michael Hoelscher



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