



A FINANCIAL ANALYSIS OF THE CONDUCTION OF THE HDA PLANTS – PART 1

Our team of experts performed a financial analysis of the cash flows of the HDA plants.

A chemical plant has many operative expenses. Insiders at Politecnico informed us that each plant consumes about 58.6 kW in electricity (at 55.56 €/GJ) and requires hot steam (at 12.57 €/GJ) and cold water (at 1.58 €/GJ) to exchange 2179 kW and 3189 kW.

Hydrogen	-10861 €/w
Electricity	-1969 €/w
Cold water	-3047 €/w
Steam	-16559 €/w
Heat	+24636 €/w
Furnace	-9741 €/w
Overhead	-2000 €/w
SUBTOTAL	-19541 €/w

For a week of full production, the plant also consumes 5172 kmol of hydrogen (at 2.1 €/kmol) and produces 3461 GJ of heat (at 8.25 €/GJ) burning two process streams in a furnace, which costs 58 €/h. This provides the heat needed at the furnace (474 GJ) and the excess heat is sold at 8.25 €/GJ. The overhead expenses are fixed and amount to 2000 €.

The financial analysis will continue in the next issue.

POLITECNICO ENCOUNTERS UNEXPECTED ISSUES WITH PRODUCTION

According to internal sources, a serious issue with the compressor, which would require the plants to stop periodically for extraordinary maintenance, was identified in the construction of all the new HDA plants built by Politecnico di Milano.



Luckily, a solution was quickly found – the repair needed is of small entity, the major downside being that it requires halting production for a few days. The repair is offered as an option to the teams, who will have to assess the convenience of this investment over their evaluation period.

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To all the teams: don't miss the official meeting with the Board of Politecnico. To confirm your presence and manage your plant, visit tiny.cc/pse18w6

FINANCE

Average weekly figures:
29/10-4/11 week

Crude oil ¹	49.60 (-50.9%)
Benzene ¹	137.39 (-14.3%)
Toluene ¹	95.16 (-39.4%)
Propylene ²	917.39 (-6.3%)
Diphenyl ²	691.79 (-1.3%)



5/11-11/11 week

Forecasts by OPEC:

Crude oil ¹	97.33 (+96.2%)
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We apologize for the inconvenience but the forecasts for the other commodities are unavailable this week

(1) EUR per bbl (159 L)

(2) EUR per metric ton