

Financial analysis

Exercise 1

The company EnergieMax provides its income statement for the year 2023 (in millions of US dollars). Here are the provided data:

- Revenue (Chiffre d'affaires): 220,000 M\$
- Cost of Sales (Coût des ventes): 155,000 M\$
- Income Taxes (Impôts et taxes sur les revenus): 18,000 M\$
- Personnel Expenses (Charges de personnel): 35,000 M\$
- Other External Expenses (Autres charges externes): 15,000 M\$
- Depreciation (Dotations aux amortissements): 12,000 M\$
- Financial Income (Produits financiers): 5,000 M\$
- Financial Expenses (Charges financières): 6,000 M\$
- Non-recurring Income (Produits non-courants): 2,000 M\$
- Non-recurring Expenses (Charges non-courantes): 1,500 M\$
- Employee Profit-Sharing (Participation des salariés): 4,000 M\$
- Corporate Income Tax (Impôt sur les bénéfices): 8,000 M\$
- Change in Working Capital (Variation du fonds de roulement): -3,000 M\$
- Other Non-Cash Items (Autres éléments non monétaires): 1,500 M\$

Tasks:

1. Calculate the Gross Profit (Marge brute).
2. Calculate the EBITDA (Excédent Brut d'Exploitation).
3. Calculate the Operating Income (Résultat d'exploitation).
4. Calculate the Pre-Tax Current Income.
5. Calculate the Net Income (Résultat net de l'exercice).
6. Calculate the Operating Margins (Marges opérationnelles).
7. Calculate the Operating Cash Flow for EnergieMax using the indirect method.

Exercise 2:

EnergieMax is the parent company and holds an 80% stake in its subsidiary, EnergieSub. The following financial data is available for the year ending 31/12/2023 (in millions of euros):

Table: Financial Data of Parent and Subsidiary (in millions of euros)

Details	EnergieMax (Parent)	EnergieSub (Subsidiary)
Fixed Assets	500	200
Investment in Subsidiary	160	-
Current Assets	300	150
Cash	100	50
Total Assets	1,060	400
Equity Capital	600	250
Reserves	200	100
Net Income	60	30
Liabilities	200	20
Total Equity+Liabilities	1,060	400

Intercompany Transactions:

- EnergieMax has a receivable of 20 M€ from EnergieSub.
- EnergieSub has a payable of 20 M€ to EnergieMax.