



## 1 – Introduction

- 1 Learning objectives of the course
- 2 Introduction

## 3 – Development of the energy market

- 1 Introduction
- 2 Energy supply and demand
- 3 Fossil fuels
- 4 Renewable energy resources
- 5 Outlook for energy supply

## 3 – Physical basics

- 1 Introduction
- 2 Energy supply chain
- 3 Forms of energy
- 4 Energy and power
- 5 Performance indicators for energy conversion
  - Energy efficiency
  - Coefficient of performance
- 6 Capacity factor and full load hours
- 7 Upper and lower heating value of fuels

## 4 – Units and conversions

- 1 Introduction
- 2 International System of Units
- 3 Energy content of different fuels
- 4 Conversion of energy units

## 5 – Summary

- 1 Summary
- 2 References
- 3 Further reading