

## Emphasising technical advantages

10 In pairs, discuss the term *technical advantage*. Give some examples of technology you are familiar with.

11 a Read the first paragraph of some promotional literature from Otis, a leading elevator company. What is the Gen2™ system?

b Match the words (1–6) from the text in Exercise 11a to the synonyms (a–f).

1 conventional	a decreases
2 eliminates	b better / the best
3 superior	c improved
4 energy-efficient	d standard, usual
5 enhanced	e gets rid of
6 reduces	f has low energy consumption

c Complete the following text using the correct form of the words (1–6) in Exercise 11b. You will need to use some words more than once.

# OTIS Unique Flat Belt

*The key to Otis's patented drive technology*

At the heart of the Gen2™ elevator system is a flat belt (developed by and unique to Otis). It is just 3mm thick. Yet it is stronger than **conventional** steel cables. It lasts up to three times longer. And it has enabled Otis to completely re-invent the elevator. The flat, coated-steel belt totally **eliminates** the metal-to-metal effect of conventional systems. Coupled with a smooth-surface crowned machine sheave, the result is exceptionally quiet operation and **superior** ride comfort. Furthermore, the flexible flat belt enables a more compact, **energy-efficient** machine, which can be contained in the hoistway. This **enhanced** technology **reduces** building and system operating costs, and frees up valuable space.



### Protecting the environment

Neither the belt nor the gearless machine, with its permanently sealed bearings, requires any lubrication so the Gen2™ system is cleaner for the environment. The highly (1) energy-efficient gearless machine, with its permanent-magnet synchronous motor, (2) \_\_\_\_\_ power consumption by as much as 50 percent over (3) \_\_\_\_\_ geared machines and 15 percent over other machines with permanent-magnet motors of axial construction.



### Reliable by design

Long-lasting flat belts, smooth, crowned sheaves and minimal moving parts in the gearless machine dramatically (4) \_\_\_\_\_ wear and increase durability and efficiency. To further (5) \_\_\_\_\_ reliability and safety, Otis developed the Pulse™ system, which continually monitors the status of the belts' steel cords. Unlike visual inspections of (6) \_\_\_\_\_ steel ropes, the Pulse™ system automatically detects and reports belt faults to maintenance personnel for rapid response, providing owners with greater peace of mind. With flat belt technology, Otis has created a (7) \_\_\_\_\_ system that (8) \_\_\_\_\_ the need for a machine room, is quiet, clean, reliable and economical, and easy to install and maintain.

d In pairs, summarise the advantages of the flat belt system. Discuss durability, wear, noise, space, cleanliness, efficiency, automation, maintenance and cost.