Забруднення повітря	_____
Очищувач повітря	_____
Під загрозою	_____
Громадянин	_____
Побудувати	_____
Будівництво	_____
Конструктивний	_____
Створити	_____
Створення	_____
Пилова буря	_____
Захист навколишнього середовища	_____
Газові вихлопи	_____
Маска для обличчя	_____
Заводський дим	_____
Боротися	_____
Уряд	_____
Забруднюють	_____
Чистий	_____
Очищати	_____
Частина смогу	_____
Підтримка	_____
Підтримуючий	_____
Вежа	_____
Пилосос	_____

Greener and cleaner cities



1 ____
Today, there are around 7.4 billion people living on the planet. The Earth's population, however, is growing at 1.1% each year, which means that by the year 2030 there will be about 8.4 billion people. What's more, most people choose to live in cities because it is easier to find work. Busier and larger cities, however, use a lot of natural resources such as gas and electricity. It also means more vehicles* on the roads and greater use of public transport by people who commute to work.

One key question, then, is this: what can we do to protect the environment and deal with the larger number of people living on the planet?

2 ____
One idea might be the construction of lighthouse* cities. At present, Stockholm, Barcelona and Cologne are part of an experimental project to create cleaner, more energy efficient* cities for people to live in. If the results of these experiments prove successful, the ideas and technology will be transferred to other cities to help the creation of a better, more environmentally friendly Europe.

3 ____
One of the major technological inventions these cities are using is connected to recycling. But not the recycling of plastic, glass and paper which we all know. The lighthouse cities want to recycle heat.



Experts have realised that the great amount of hot air created by computer data centres, stadiums and supermarkets is wasted. But in Stockholm this 'waste heat' is already used to create hot water which is then pumped around the city into private houses and housing estates. This recycling of energy is saving both money and the resources which generate* heat in the first place.



4 ____
When it comes to fighting pollution, lighthouse cities aim to encourage the use of car-sharing to help reduce the number of vehicles on the roads. In Cologne, there are plans to build special car parks for electric cars which local people can 'book' and then share with other passengers on their journeys. When the cars are parked, they transfer energy to each other so that each vehicle is ready for a journey and that energy is used efficiently.



5 ____
Another aim of the lighthouse city project is to make people understand how to save on natural resources. Residents in all cities will be able to use apps to monitor how much energy they are using and when is the best time to clean the house, for example, or do the washing. There may even be prizes for the 'greenest' residents. The idea here is that if people can save money and save the environment at the same time, they will probably act more responsibly.

That's why the lighthouse cities like Stockholm, Cologne and Barcelona, like the lighthouses of the past, are 'showing the way' to a safer future.

Find and complete words in the collocations from the text. The first letters are given.

p*opulation* growth

1 **n**_____ resources
2 **p**_____ transport
3 to **c**_____ to work
4 to **p**_____ successful
5 **t**_____ inventions

LIVEWORKSHEETS