

ATOCONNUSE ANDECONNESE

'Tastes like water': how a US facility is recycling sewage to drink

Level 2: Intermediate

1 Warmer

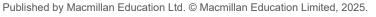
a. Discuss the following questions in pairs.

- What problems can cities have with drinking water?
- Would you drink recycled wastewater if it were cleaned? Why or why not?

2 Key words

a. Find the words from the wordpool in the article. Then use the words to complete the definitions using the correct form.

	bacteria conserve cost-effective	disinfect drawback droughts	equipment imported leftovers	membranes minerals model	sewage water sources
1.		: things that re	emain after a meal o	r a process	
2.		: thin layers th	nat remove things, of	ten from a liquid	
3.		: brought into	a country or region f	rom a different coun	try or region
4.		: to clean som	nething carefully in o	rder to kill harmful ba	acteria or viruses
5.		: long periods	without any rain		
6.		: a negative co	onsequence; disadv	antage	
7.		: water and wa	aste that is carried a	way from homes thro	ough pipes
8.		: a good exam	uple of something the	at people often follow	/ or use as a guide
9.		: achieving go	od results without co	osting too much mon	ey
10.		: small organis	sms, some of which	can cause disease	
11.		: items you ne	ed in order to do so	mething such as a jo	b, hobby or sport
12.		: to protect na	tural resources from	harm or destruction	
13.		: different plac	ces where water con	nes from, e.g. rivers,	natural springs, etc.
14.		: natural subst e.g. calcium	tances that are foun	d in food, water and	the Earth,



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b.	Co	Complete the sentences with words from the previous activity in the correct form.			
	1.	An engineer tested the	to make sure it worked safely.		
	2.	One	of solar energy is that it's dependent on the weather.		
	3.	Drinking water can contain	that are good for your body.		
	4.	Farmers are trying to dry weather.	water because of the long period of		
	5.	because they don't grow there.	fruits such as mangoes and pineapples are brought into the UK		
	6.	An architect will often build a(n) _ designed to show to their clients.	of the building they have		
	7.	Solar panels are becoming a cor	nmon and source of energy.		
	8.	Scientists use filters with thin	to clean dirty water.		
	9.	Long	can damage crops and cause food shortages.		
	10.	This spray is good at	the surfaces in the kitchen.		
	11.	building site before work could st	, such as bricks and pieces of metal were removed from the art.		
	12.		from homes and factories can pollute rivers and lakes.		
			n dangerous		
	14.	Because of climate change, gove	ernments are looking at different		

in order to provide drinking water to people.





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A California project can turn sewage into drinking water in less than an hour and could be a blueprint for other water-scarce regions

Katharine Gammon 6 June, 2025

- 1 The Groundwater Replenishment System facility in Orange County, California, contains the equipment to move up to 130 million gallons of water each day – enough for a million people. The facility, which opened in 2008, is part of an effort to help conserve water.
- 2 It takes the sewage from the building next door and pushes it through a three-step process to make clean water. The facility provides 45 per cent of central Orange County's water and helps reduce reliance on imported water.
- 3 In general, once sewage has been treated, the water is returned to rivers, but droughts and climate change mean that cities are using recycled sewage for drinking water. It is already done in Israel, Singapore and Kuwait, but Orange County is the first in the US to try the idea.
- 4 When the liquid reaches the plant it has already been through some treatment and is clean enough to go back into the oceans, but not clean enough to drink. The first step is to pump the water through special fibres – which look like tiny plastic straws – to remove bacteria.
- 5 Pipes then carry the water to a building where it is pushed through membranes that squeeze out the salts, organic chemicals and any leftovers. Finally, the water is treated with ultraviolet light and chemicals to disinfect anything that might remain.
- 6 After walking around all three buildings, we reach a sink with running, clear water. I drink a cup of it, expecting it to smell bad – but no, it's super clean, and tastes ok. That's because it doesn't contain any salts or minerals – they have been removed by the cleaning process. On the cup it says, "Tastes like water ... because it is water", chosen because it is the number one comment, says Mehul Patel, the executive director at the Orange County Water District.

- The big drawback to this system is that making water

 instead of taking it from the ground takes a huge amount of energy and labour. The system uses
 megawatts of electricity and has a monthly electricity bill of \$2.5 million (£1.85 million).
- 8 But the technology also offers some control over a future affected by climate change: the team plans several years ahead in terms of what they think their water needs will be and what the water sources will be.
- 9 Some places are looking to the oceans for drinking water, but wastewater is more cost-effective as a source of water because there are fewer salts in wastewater than sea water. That makes the energy costs of cleaning the water about half of what it would be to remove the salt.
- 10 The model is also being used in other areas in the US. Los Angeles County is building a water recycling project in the San Fernando Valley to produce 20 million gallons a day. Instead of sending treated wastewater out to sea, it will be cleaned for drinking water, just like in Orange County. There are also projects starting in Utah, Texas and Colorado.
- 11 The Orange County model has won awards, including a Guinness World Records title for the most wastewater recycled to drinking water in 24 hours on 16 February 2018. But the best praise is the public support for the water and the fact that people are happy to drink it.

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6		Comprohension shock			
3		Comprehension check			
a.	Are	Are these sentences True (T) or False (F)?			
	1.	The Groundwater Replenishment System can provide water for around	T / F		
		one million people.			
	2.	All the water from the facility comes from natural rivers and lakes.	T / F		
	3.	The facility uses a three-step cleaning process that includes special fibres and			
		ultraviolet light.	T / F		
	4.	The recycled water contains many minerals and salts, which give it a strong taste.	T / F		
	5.	Treating wastewater costs more energy than taking water from the ocean.	T / F		
	6.	The US is the only country in the world where this model is used.	T / F		
4	k	Key language			

a. Put these steps in the correct order (1-4) according to the article.

Step: _____

They use UV light and chemicals to clean the water.

Step: _____

Pipes carry the water to a different building.

Step: _____

People can safely drink the water.

Step: _____

They push the water through fibres to remove bacteria.





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b. Look at the example sentences. Choose the correct option a, b or c in each sentence.

Active Voice: People drink tap water in most European countries.

Passive voice: Tap water is drunk in most European countries.

- 1. When we change a present simple sentence to simple present passive, we use the ...
 - a. present form of the verb.
 - b. past participle form of the verb.
 - c. *-ing* form of the verb.
- 2. In the present simple passive, we use ...
 - a. have / has + past participle.
 - b. *will* + base verb.
 - c. am / is / are + past participle.
- 3. In the present simple passive with can, we use ...
 - a. *can* + *be* + past participle.
 - b. can + is + past participle.
 - c. *can* + past participle + *have*.

c. Rewrite the steps in task a using the present simple passive and in the correct order.

1.	
_	
2.	
3.	
4.	
т.	



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5 Discussion

- a. Discuss these questions.
 - According to the article, why is wastewater considered more cost-effective to treat than seawater?
 - The facility uses a large amount of electricity to treat the water. Do you think this system is sustainable? Why or why not?

6 In your own words

- a. The article describes the process by which wastewater is turned into drinking water. Summarise the information by selecting and reporting the main features and making comparisons where relevant. Write at least 120 words.
- b. Share your summaries with the class.

