

# ENGLISH LEARNING FOR CURIOUS MINDS





**Episode #585**  
**Is AI Really Destroying the Planet?**  
**19th Dec, 2025**

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## **Transcript**

[00:00:05] Hello, hello, hello, and welcome to English Learning for Curious Minds, by Leonardo English, the show where you can listen to fascinating stories and learn weird and wonderful things about the world at the same time as improving your English.

[00:00:21] I'm Alastair Budge, and today we are going to be talking about Artificial Intelligence and the environment.

[00:00:30] It has been [billed<sup>1</sup>](#) as a disaster [in plain sight<sup>2</sup>](#), technology [pointlessly<sup>3</sup>](#) destroying the planet, but is there actually any [substance<sup>4</sup>](#) behind it?

[00:00:42] Why are some environmental activists highly critical of things like ChatGPT? Are they right to be critical, and what does this all mean for you?

[00:00:52] OK then, let's not waste a minute and get right into it.

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<sup>1</sup> described or advertised

<sup>2</sup> easy to see; not hidden

<sup>3</sup> for no good reason; without purpose

<sup>4</sup> real truth or facts

## Is AI Really Destroying the Planet?

[00:00:59] There was a report from BBC Scotland a few weeks ago with the title “Scottish data centres powering AI already using enough water to fill 27 million bottles a year”.

[00:01:17] The headline was deliberately [provocative](#)<sup>5</sup>. 27 million bottles sounds like...a lot.

[00:01:26] And if AI is responsible for using all of this, does this mean 27 million fewer bottles of water for the good people of Scotland?

[00:01:38] For the story, the reporter had taken to the streets to ask people whether they used tools like ChatGPT, and whether they knew “it could be bad for the environment”, using that exact [phrasing](#)<sup>6</sup> of the sentence.

[00:01:56] A [loaded question](#)<sup>7</sup>, as we say in English.

[00:02:00] Of course, most said they were not, and agreed that people should be more aware of it.

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<sup>5</sup> made to cause a strong reaction

<sup>6</sup> the way words were put together in the sentence

<sup>7</sup> a question that was asked in a way that pushed people to answer in a certain way

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[00:02:07] And the general reaction is probably best [summed up](#)<sup>8</sup> by the end of the clip, where an elderly gentleman commented, “one day you’re waking up and you [cannae](#)<sup>9</sup> have a shower because there’s no water because it’s cooling down some computer somewhere”.

[00:02:23] So, is this actually true?

[00:02:26] Are the good people of Scotland in danger of having to go without a shower because the water has all been used for your and my ChatGPT queries?

[00:02:37] In a word, no, especially not in Scotland.

[00:02:42] As one user on Facebook [humorously](#)<sup>10</sup> put it, “I live in Scotland. I often think “if only we had more water, I mean if just for once it could fall out of the sky or something. I’m [burning up](#)<sup>11</sup> here””.

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<sup>8</sup> described in a few words

<sup>9</sup> Scottish for “cannot”

<sup>10</sup> in a funny way

<sup>11</sup> jokingly saying it was very hot

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[00:02:58] To be fair, if you [clicked](#)<sup>12</sup> into the BBC article and didn't just watch the video, the article did admit that water use for data centres had increased significantly, but was still only responsible for 0.005% of the water supply in Scotland.

[00:03:21] And anyone who lives in Scotland or who has visited Scotland will probably be able to tell you, without reaching for any official dataset or doing complicated calculations on Excel, that Scotland has many problems, but water does not seem to be one of them; if Scotland were an independent country, it would be the second wettest country in Europe.

[00:03:49] So, as far as Scotland is concerned, they could build 100 times as many data centres, and it would still only use 0.5% of the Scottish water supply, and that's assuming there are no improvements in [efficiency](#)<sup>13</sup> in how this water is used.

[00:04:09] Now, before we get into some of the details of the other environmental concerns around AI, it's first worth spending a few minutes [clarifying](#)<sup>14</sup> exactly what we're talking about, how AI uses energy, and why this is different from previous technologies.

[00:04:31] For starters, using any kind of technology uses energy.

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<sup>12</sup> opened by pressing on a link online

<sup>13</sup> ability to do it without wasting energy

<sup>14</sup> making it easier to understand

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[00:04:36] When you send an email, search for something on Google, listen to this podcast, or do almost anything that connects to the Internet, information is being transferred between your computer and somewhere else.

[00:04:52] That “somewhere else” isn’t a mysterious cloud [floating](#)<sup>15</sup> above your head.

[00:04:59] In most cases, it's a physical location called a data centre.

[00:05:05] A data centre is, essentially, a giant [warehouse](#)<sup>16</sup> full of computers, tens of thousands of them, all [stacked up](#)<sup>17</sup> in metal [racks](#)<sup>18</sup>, [blinking](#)<sup>19</sup> away, processing and storing data. They don’t look very exciting, but they are the [backbone](#)<sup>20</sup> of the modern digital world.

[00:05:27] Every photo you upload, every YouTube video you watch, every Spotify song you play, this is all being sent to and from one of these data centres somewhere in the world.

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<sup>15</sup> hanging or moving in the air

<sup>16</sup> a very large building for storing things

<sup>17</sup> put in a pile on top of each other

<sup>18</sup> metal frames for holding things

<sup>19</sup> flashing on and off with light

<sup>20</sup> the most important support for it

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[00:05:42] And all of this takes energy.

[00:05:44] Your computer or mobile phone needs energy to make the request, so you charge it up at home.

[00:05:51] And the computers in the data centre, of course, also need energy; they need electricity.

[00:05:58] But, like any computer, they can also get very hot, which means they need to be cooled; sometimes this is by enormous air-conditioning systems, or in some cases, by water that flows through pipes to remove heat.

[00:06:15] So, whether it's these air-conditioning systems or cold water, these data centres require large amounts of electricity to keep everything running, and more importantly, to keep everything cool.

[00:06:31] So, even before we get to the question of AI, every time you open a web page, watch a YouTube video, and yes, even listen to a podcast, a little bit of energy is being used somewhere in the world to make that happen.

[00:06:46] Now, with Artificial Intelligence, things are a bit different.



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[00:06:52] When you ask ChatGPT a question, or generate an image, or use an AI assistant on your phone, it isn't just [retrieving](#)<sup>21</sup> some information from somewhere. It's [computing](#)<sup>22</sup> it, creating something new in real time.

[00:07:09] This means much more powerful computers are involved, the kind that can do billions or even trillions of calculations per second. These chips, or Graphics Processing Units, GPUs for short, they use far more energy than the servers that store your emails or photos.

[00:07:31] And because AI systems are so large, with billions of [parameters](#)<sup>23</sup> or virtual “connections” between artificial [neurons](#)<sup>24</sup>, they need vast amounts of energy both to train them and to run them.

[00:07:47] So while a Google search might use enough energy to power a light bulb for a few seconds, generating a single AI image or a long ChatGPT reply, early critics [pointed out](#)<sup>25</sup>, might use ten, twenty, or even fifty times more.

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<sup>21</sup> taking out

<sup>22</sup> working it out using a computer

<sup>23</sup> the numbers that control how an AI model works

<sup>24</sup> tiny units in an AI system that act like brain cells

<sup>25</sup> explained or showed

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[00:08:07] That is why environmental campaigners have started to pay attention, because AI use is exploding at [breakneck](#)<sup>26</sup> speed, and AI is much more energy-intensive than almost every other consumer technology; each request requires far more computing power, therefore more energy.

[00:08:29] But, you are probably wondering, how much energy is this?

[00:08:33] Well, when ChatGPT was first released, there were all sorts of articles suggesting that it was 22 times more energy-intensive than using Google and that it was a giant [menace](#)<sup>27</sup> to the environment.

[00:08:49] 22 times more [emissions](#)<sup>28</sup> sounds bad, but firstly, that number has proved not to be correct, and secondly, it's important to see it in perspective.

[00:09:03] On the first point, according to a recent study, a single Google Gemini text query, so a single use of Google's AI, uses 0.24 Wh of electricity, emits 0.03 grams of CO2, and consumes 0.26 millilitres of water.

[00:09:31] Now, to put that in perspective, the energy use is like one second of using a microwave, or 6 seconds of having your fridge on.

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<sup>26</sup> very fast; dangerously fast

<sup>27</sup> a danger or something that causes worry

<sup>28</sup> gases released into the air

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[00:09:43] 0.03 grams of CO<sub>2</sub> is practically nothing, and 0.26 millilitres is five drops of water.

[00:09:54] Now, some AI uses are more intensive, like generating an image or video, and not all AI models are the same; OpenAI, which is the company behind ChatGPT, hasn't released a similar study, and it's believed it's not yet as energy efficient as Google.

[00:10:16] I'll use them semi-interchangeably here. If ChatGPT isn't yet as efficient as Google Gemini, it will most likely get there shortly, and both will continue to become more, not less, energy-efficient. So, you'll excuse me if I [flit](#)<sup>29</sup> between the terms.

[00:10:33] Now, in the interests of balance, there have been some criticisms of this Google study, with commentators pointing out that it doesn't take into account factors like the training of the AI model or the carbon cost of the AI chips themselves.

[00:10:51] But even taking these into account, the effect is still [negligible](#)<sup>30</sup>.

[00:10:58] To put it in perspective again, taking everything into account, a single AI query, based on recent estimates, is like uploading 9 photos to social media, leaving a digital alarm clock on for 50 minutes, or [streaming](#)<sup>31</sup> Netflix for 30 seconds.

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<sup>29</sup> move quickly back and forth

<sup>30</sup> so small it does not matter

<sup>31</sup> watching online in real time

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[00:11:19] These are things most of us don't think twice about, yet it is AI that has come [under the spotlight](#)<sup>32</sup>.

[00:11:28] The news is full of articles with headlines like “training an AI model is like 550 return flights from New York to San Francisco”, or that “ChatGPT emits as much CO2 as 20,000 American households”.

[00:11:45] Or, of course, even by the BBC, which should know better, “AI uses 27 million bottles of water in Scotland”.

[00:11:55] Yes, the total energy impact of AI has grown incredibly quickly, but it started from zero.

[00:12:04] ChatGPT went from zero to 100 million users in under a year.

[00:12:11] By July 2025, it had 700 million users, 10% of the world's adult population, sending 18 billion messages every week.

[00:12:25] Now, those numbers will be higher, and it looks like they will continue to trend up.

[00:12:31] Using a tiny amount of energy 18 billion times a week, well, it does [add up](#)<sup>33</sup>, and this is part of where the concern comes from.

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<sup>32</sup> receiving a lot of public attention

<sup>33</sup> become more when many small parts are put together

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[00:12:42] But, even when all global AI use is added together, it still doesn't even add up to [a fraction of](#)<sup>34</sup> a per cent.

[00:12:52] And to think, this is a technology that is being used by 1 in every 10 adults, [voluntarily](#)<sup>35</sup>, I should add.

[00:13:01] Sure, ChatGPT or other AI models aren't perfect, and you might not use them yourself.

[00:13:08] But they can be incredibly helpful, saving you time, making you more productive, and assisting you in [a myriad of](#)<sup>36</sup> ways.

[00:13:18] When you think about it, technology is incredibly efficient in its energy use.

[00:13:24] Every data centre in the world, so that's the computers powering the entire internet, not just AI, uses 1.5% of the world's electricity and 0.23% of the world's energy.

[00:13:40] And to think, the average person spends six and a half hours per day online, interacting with data centres. In many ways, it's a miracle that something that's now so [fundamental](#)<sup>37</sup> to our lives has such a tiny environmental impact.

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<sup>34</sup> a very small part of

<sup>35</sup> by choice; because they want to

<sup>36</sup> many different kinds of; a lot of

<sup>37</sup> very important; basic



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[00:14:00] And of course, if we are to compare any of these technological uses to “offline” energy uses, the difference is even more [pronounced](#)<sup>38</sup>.

[00:14:12] Producing one burger requires around 2,000 litres of water, enough to run almost 10 million Google Gemini queries, nearly 300 a day, for 100 years.

[00:14:28] Now, this is not for me to say you should stop eating burgers or never take an aeroplane again; that’s not my point.

[00:14:36] Rather, it’s that to think that you should restrict your personal use of ChatGPT, but still go to McDonald’s is like deciding you’re going to cycle to take a private plane; it is wildly misunderstanding the impact of the two activities.

[00:14:54] But there is one point that’s worth pointing out, and that is relating to the type of energy that’s used in these data centres.

[00:15:04] When you use ChatGPT or any other model, your query is typically [routed](#)<sup>39</sup> to the nearest data centre to you.

[00:15:14] The environmental impact of each request is largely dependent on the type of energy used to power that data centre. And given the heavy electricity requirements, these data centres are often powered by dirtier energy sources such as coal or oil.

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<sup>38</sup> clearly shown or easy to notice

<sup>39</sup> sent through a particular path

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[00:15:36] This is part of the reason technology companies are busy [pledging](#)<sup>40</sup> to [switch](#)<sup>41</sup> to cleaner energy sources —not necessarily because they have some [inherent](#)<sup>42</sup> love for the environment, but because the cleaner the energy used in their data centres, the less [ammunition](#)<sup>43</sup> environmental critics have against them.

[00:15:58] And there's more. Water use might be a non-issue in the wet and rainy country of Scotland, but in countries less [blessed by](#)<sup>44</sup> constant showers and flowing rivers, it is. Whether that's in the Middle East or in Arizona, every litre of water that goes to a data centre is a litre of water that isn't available for something else.

[00:16:26] And the [sheer](#)<sup>45</sup> scale of the growth in AI, and the data centres required for this, is [mindboggling](#)<sup>46</sup>. By some estimates, the energy demand from data centres is set to double by 2030, with half of this growth driven by AI.

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<sup>40</sup> promising formally

<sup>41</sup> change from one thing to another

<sup>42</sup> deep-rooted, basic

<sup>43</sup> things used to support their argument

<sup>44</sup> lucky to have it

<sup>45</sup> very great

<sup>46</sup> extremely surprising or hard to imagine

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[00:16:46] And “personal” AI use is just a [slice](#)<sup>47</sup> of this. By personal AI use, I mean an individual, you or me, or any of the other hundreds of millions of people using ChatGPT or other AI tools, and going into the [interface](#)<sup>48</sup> and asking a question.

[00:17:07] There is also all of the behind-the-scenes use of AI by companies, whether that’s companies using AI models for their internal business processes or it’s the AI companies themselves.

[00:17:21] So even if you never choose to use AI tools personally, every time you [interact with](#)<sup>49</sup> a technology company, you will most probably be using some form of AI, whether you like it or not.

[00:17:36] So, to [wrap things up](#)<sup>50</sup>, global AI use is probably at the lowest it will ever be in your or my lifetime. New models are coming out almost every week, adoption is increasing fast, and AI is being deployed into everything we do.

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<sup>47</sup> a small part

<sup>48</sup> the place on a computer where you see and use a tool

<sup>49</sup> use or communicate with

<sup>50</sup> finish; bring things to an end

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[00:17:55] Yes, it might use significantly more energy than things like traditional Google searches, but it is far from the worst thing you can do with a computer, and its environmental impact [pales in comparison](#)<sup>51</sup> with most things you do in the real world.

[00:18:13] And the good news is that AI is getting much more energy-efficient, with that Google study reporting that energy use for each query is now 3% of what it was a year ago, a 33-fold reduction.

[00:18:30] Yes, AI does have an impact on the environment, but on an individual level, it offers a [miraculous](#)<sup>52</sup> reward for a [minuscule](#)<sup>53</sup> environmental cost.

[00:18:43] When it comes to reducing your personal carbon footprint, there are dozens of lifestyle changes, such as flying less and taking public transport, that would have a vastly greater impact than your personal use of AI.

[00:18:57] So, it's up to you, but if you ask me whether I'd prefer to [skip](#)<sup>54</sup> one burger, or not use AI again for the rest of my life, I think you can guess what I would say.

[00:19:10] OK, then, that is it for today's episode on the environmental impact on AI.

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<sup>51</sup> looks much smaller or less important when compared

<sup>52</sup> wonderful and surprising in a good way

<sup>53</sup> extremely small

<sup>54</sup> leave it out, not eat

**Is AI Really Destroying the Planet?**

[00:19:16] I hope it's been an interesting one and that you've learnt something new.

[00:19:20] As always, I would love to know what you thought of this episode.

[00:19:23] What had you heard about the environmental impact of AI? Had you changed your behaviour, or will you change your behaviour after listening to this?

[00:19:33] I would love to know.

[00:19:34] Let me know in the comments below if you're listening to this somewhere where you can comment, and for the members among you, you can head right into our community forum, which is at [community.leonardoenglish.com](https://community.leonardoenglish.com) and get chatting away to other curious minds.

[00:19:48] You've been listening to English Learning for Curious Minds by Leonardo English.

[00:19:53] I'm Alastair Budge, you stay safe, and I'll catch you in the next episode.

[END OF EPISODE]

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## **Key vocabulary**

Word	Definition
Billed	described or advertised
In plain sight	easy to see; not hidden
Pointlessly	for no good reason; without purpose
Substance	real truth or facts
Provocative	made to cause a strong reaction
Phrasing	the way words were put together in the sentence
Loaded question	a question that was asked in a way that pushed people to answer in a certain way
Summed up	described in a few words
Cannae	Scottish for “cannot”
Humorously	in a funny way
Burning up	jokingly saying it was very hot
Clicked	opened by pressing on a link online
Efficiency	ability to do it without wasting energy

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<b>Clarifying</b>	making it easier to understand
<b>Floating</b>	hanging or moving in the air
<b>Warehouse</b>	a very large building for storing things
<b>Stacked up</b>	put in a pile on top of each other
<b>Racks</b>	metal frames for holding things
<b>Blinking</b>	flashing on and off with light
<b>Backbone</b>	the most important support for it
<b>Retrieving</b>	taking out
<b>Computing</b>	working it out using a computer
<b>Parameters</b>	the numbers that control how an AI model works
<b>Neurons</b>	tiny units in an AI system that act like brain cells
<b>Pointed out</b>	explained or showed
<b>Breakneck</b>	very fast; dangerously fast
<b>Menace</b>	a danger or something that causes worry
<b>Emissions</b>	gases released into the air

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<b>Flit</b>	move quickly back and forth
<b>Negligible</b>	so small it does not matter
<b>Streaming</b>	watching online in real time
<b>Under the spotlight</b>	receiving a lot of public attention
<b>Add up</b>	become more when many small parts are put together
<b>A fraction of</b>	a very small part of
<b>Voluntarily</b>	by choice; because they want to
<b>A myriad of</b>	many different kinds of; a lot of
<b>Fundamental</b>	very important; basic
<b>Pronounced</b>	clearly shown or easy to notice
<b>Routed</b>	sent through a particular path
<b>Pledging</b>	promising formally
<b>Switch</b>	change from one thing to another
<b>Inherent</b>	deep-rooted, basic
<b>Ammunition</b>	things used to support their argument

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<b>Blessed by</b>	lucky to have it
<b>Sheer</b>	very great
<b>Mindboggling</b>	extremely surprising or hard to imagine
<b>Slice</b>	a small part
<b>Interface</b>	the place on a computer where you see and use a tool
<b>Interact with</b>	use or communicate with
<b>Wrap things up</b>	finish; bring things to an end
<b>Pales in comparison</b>	looks much smaller or less important when compared
<b>Miraculous</b>	wonderful and surprising in a good way
<b>Minuscule</b>	extremely small
<b>Skip</b>	leave it out, not eat

## **Language spotlight**

### **1. In plain sight**

- **Meaning:** easily seen; not hidden
- **Synonyms:** openly, clearly, visibly
- **Antonyms:** secretly, hidden, out of sight
- **Examples:**
  - The keys were right **in plain sight**, but I still couldn't find them.
  - The solution to the problem was **in plain sight** the whole time.

### **2. Loaded question**

- **Meaning:** a question that is asked in a way that suggests a certain answer or makes someone look bad no matter what they say
- **Synonyms:** leading question, biased question
- **Antonyms:** neutral question, fair question
- **Examples:**



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- Asking “Why don’t you care about the environment?” is a **loaded question**.
- Politicians often avoid answering a **loaded question**.

### 3. Breakneck speed

- **Meaning:** extremely fast; faster than is safe or expected
- **Synonyms:** very fast, rapid, lightning-fast
- **Antonyms:** slow, steady, unhurried
- **Examples:**
  - Technology is developing at **breakneck speed**.
  - The car was going at **breakneck speed**, and it was dangerous.

### 4. Under the spotlight

- **Meaning:** receiving a lot of attention or criticism
- **Synonyms:** in focus, being examined, under scrutiny
- **Antonyms:** unnoticed, ignored, in the background

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- **Examples:**

- AI has been **under the spotlight** because of its environmental impact.
- After the mistake, the whole team was **under the spotlight**.

### 5. Pales in comparison

- **Meaning:** seems much less important or much smaller than something else
- **Synonyms:** is insignificant next to, seems tiny beside
- **Antonyms:** is greater than, stands out, dominates
- **Examples:**
  - The energy used by AI **pales in comparison** to the energy used by air travel.
  - My busy week **pales in comparison** to hers — she travelled to three countries!

## **Quiz**

### **Listening Comprehension Multiple Choice Questions**

1. What was the main claim in the BBC Scotland headline?
  - a) AI companies were wasting electricity
  - b) AI data centres were using enough water to fill 27 million bottles a year
  - c) Scotland was running out of water
  - d) People should stop using the Internet
  
2. Why did the reporter in the BBC Scotland story ask people whether they knew AI “could be bad for the environment”?
  - a) To check whether people used AI companies
  - b) To encourage people to use more AI tools
  - c) To guide their answers by using a loaded question
  - d) To collect scientific data

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3. Why is water usage not a real problem in Scotland?

- a) Scotland imports water from Iceland
- b) People there use very little water
- c) AI companies promised to reduce water use
- d) Scotland is one of the wettest places in Europe

4. How is AI different from a normal Google search?

- a) It only works offline
- b) It creates answers instead of simply finding them
- c) It uses no electricity
- d) It does not need data centres

5. Why does the speaker say technology companies want to switch to cleaner energy sources?

- a) Because renewable energy is always cheaper
- b) Because clean energy makes data centres unnecessary

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c) Because critics have less “ammunition” if the energy is clean

d) Because governments force them to do so in every country

### True or False

6. The podcast says that using ChatGPT might stop Scottish people from having showers. (True / False)

7. Data centres need energy both to run computers and to keep them cool. (True / False)

8. The Google study said that one AI query releases large amounts of CO<sub>2</sub>. (True / False)

9. AI is now responsible for more than half of the world’s electricity use. (True / False)

10. The podcast explains that using AI personally has a very small impact on the environment compared to other daily activities. (True / False)

### Fill in the Blank

11. I live in Scotland. I often think “if only we had more water, I mean if just for once it could fall out of the sky or something. I’m burning \_\_\_ here.”



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12. Generating a single AI image or a long ChatGPT reply, early critics \_\_\_\_\_ out, might use ten, twenty, or even fifty times more.

13. Using a tiny amount of energy 18 billion times a week, well, it does \_\_\_\_ up, and this is part of where the concern comes from.

14. They can be incredibly helpful, saving you time, making you more productive, and assisting you in a \_\_\_\_\_ of ways.

15. So, to \_\_\_\_\_ things up, global AI use is probably at the lowest it will ever be in your or my lifetime.

### Vocabulary Practice

16. What does “**provocative**” mean in the context of the headline?

- a) Confusing
- b) Made to cause a strong reaction
- c) Boring
- d) Unimportant

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17. What does “**backbone**” mean when describing data centres?

- a) The most important support of something
- b) A type of computer
- c) A part of the human body
- d) An expensive cable

18. The word “**negligible**” means:

- a) Very large
- b) Too small to matter
- c) Impossible to measure
- d) Difficult to explain

19. What does “**routed**” mean in the sentence about sending queries to data centres?

- a) Stopped
- b) Lost
- c) Sent along a particular path

d) Deleted

20. What does “**minuscule**” mean in the transcript?

a) Very expensive

b) Very large

c) Very dangerous

d) Very small

## **Answers**

1. b) AI data centres were using enough water to fill 27 million bottles a year
2. c) To guide their answers by using a loaded question
3. d) Scotland is one of the wettest places in Europe
4. b) It creates answers instead of simply finding them
5. c) Because critics have less “ammunition” if the energy is clean
6. False
7. True
8. False
9. False
10. True
11. up
12. pointed
13. add
14. myriad
15. wrap
16. b) Made to cause a strong reaction
17. a) The most important support of something
18. b) Too small to matter
19. c) Sent along a particular path
20. d) Very small