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https://www.100test.com/kao_ti2020/645/2021_2022_2010_E5_B9_B4_E8_81_8C_c91_645657.htm Debate over the use of Renewable energy Ausubel of Rockefeller University in New York, US. says the key renewable energy sources, including sun, wind and biofuels, would all require vast 1 of land if developed up to large scale production1 unlike nuclear power. That land would be far better left alone2, he says. Renewables look attractive when they are quite 2 . But if we start producing renewable energy on a large scale, the fallout is going to be horrible. Instead, Ausubel argues 3 renewed development of nuclear.来源：www.examda.com Ausubel draws his conclusions by analysing the amount of energy renewables, natural gas and nuclear can produce in terms of power per square metre of land used3. Moreover, he claims that as renewable energy use increases, this measure of efficiency4 will 4 as the best land for wind, biofuels, and solar power gets used up. Using biofuels to obtain the 5 amount of energy as a 1000 megawatt nuclear power plant would require 2500 square kilometres of farm 6 , Ausubel says. "We should be sparing land for nature5, not using it as pasture for cars and trucks," he adds. Solar power is much more efficient than biofuel in terms of the area of land 7 , but it would still require 150 square kilometres of photovoltaic cells to 8 the energy production of the 1000 MW nuclear plant. In another example, he says meeting the 2005 US electricity demand via wind power alone would need 780,000 square kilometres, an area the size of Texas. However,

several experts are highly critical of Ausubel's conclusions. John Turner of the US government's National Renewable Energy Laboratory says that if the US got all of its power from solar energy, it would still need less than half the amount of land that has been paved over for highways. Further, it need not additional land. The US could get a quarter of its energy just from covering rooftops of buildings, he says. According to Turner, the same "dual use" also applies to wind power. "The footprint for wind is only 5% of the land that it uses. Farmers can still farm the land that the turbines are on. Turner says looking solely at land use is an oversimplification of the issue. "I'm not sure I'd want to build one of these nuclear plants in Afghanistan, but we could put in wind and solar power," he adds.

词汇： renewable adj. 可再生的 n. 可再生能源 photovoltaic adj. 光电的 rooftop n. 屋顶 biofuel n. 生物燃料 footprint n. 足迹，影响区域 fallout n. 余波，结果 turbine n. 涡轮机 megawatt n. 兆瓦 pasture n. 牧场，牧地 Oversimplification n. 过于简单化

注释： 1. if developed up to large scale production：如果开发达到大规模的程度。 if developed up to large scale production = if (the key renewable energy sources were) developed up to large scale production 2. That land would be far better left alone：保留那一片土地远比使用它为好。(be) left alone 是“别动它”的意思。如：Leave him alone. He can solve the problem himself. (不要打搅他。他自己会解决问题的。) 3. Ausubel draws his conclusions by analysing the amount of energy renewables, natural gas and nuclear can produce in terms of power per square metre of land used：Ausubel 用每平方公尺土地与产生的能量的

比率这一方法，对可再生能源、天然气和核电厂发出多少能量进行分析，从而得出他的结论。(that) renewables, natural gas and nuclear can produce in terms of power per square metre of land used 是定语从句，修饰 the amount of energy, 关系动词 that 省略。in terms of 是“按照，依据”。如：We cannot measure everything in term of money. (我们不能用金钱来衡量每一件事。)

4.this measure of efficiency：这种效率的值。measure 这里指“值的大小”。

5.We should be sparing land for nature：我们应该将土地留给自然。spare 是“免去，免遭”。如：Call him and you will spare a visit. (打个电话给他，省得自己跑一趟。)

6.the same "dual use" also applies to wind power：同样的“双重利用土地”也适用于风力发电

7.The footprint for wind：风力发电占用的土地。footprint 在此的意思是“影响区”。wind 实际上指的是“风力发电”。

8.Farmers can still farm the land that the turbines are on：农民在涡轮机占用的土地上仍然可以耕种。Farmers can still farm the land that the turbines are on = Farmers can still farm the land on which the turbines are

9.I ' m not sure I ' d want to build one of these nuclear plants in Afghanistan：我确定不了我是否还想在阿富汗建立一个这样的核电厂。这是一种委婉的英语表达方式 (understatement)，其真正要表达的意思是：我不想在阿富汗建立一个这样的核电厂。

练习：1.A) figures B) amounts C) numbers D) digits 2.A) small B) huge C) little D) vast 3.A) at B) over C) for D) against 4.A) expand B) minimize C) enlarge D) decrease 5.A) same B) similar C) alike D) identical 6.A) region B) site C) area D) land 7.A) leased B) cultivated C) used D) purchased 8.A) patch B) match C) catch D) fetch 9.A) in B) with C)

ofD) on 10.A) even ifB) only if C) what ifD) as if 11.A) lock upB)
take upC) give upD) step up 12.A) toweringB) interestingC)
nicelookingD) existing 13.A) surroundsB) containsC) includesD)
covers 14.A) issueB) stuffC) summaryD) suggestion 15.A)
doubtfully B) supposedlyC) certainlyD) honestly 100Test 下载频道
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