## A Transition Toward a Sustainable Energy System II

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A	Warm up!	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>

Check the important words and phrases used in the session and what they mean. You can also use the read-aloud voice on the website to check your pronunciation.

☑ Words & Phrases	訳
☐ 1. sustainable energy	持続可能なエネルギー
☐ 2. electricity storage	蓄電
☐ 3. exceed the demand	需要を上回る
☐ 4. water electrolysis	水電解
☐ 5. fuel cell	燃料電池
☐ 6. hydrogen-based	水素ベースの
☐ 7. solar panel	太陽電池板
□ 8. energy conversion efficiency	エネルギー変換効率
☐ 9. energy density	エネルギー密度
$\square$ 10. estimation	推定、見積もり
☐ 11. reduction	削減、減少
☐ 12. CO₂ emission	二酸化炭素排出(量)
☐ 13. interdisciplinary	複数の学問分野にまたがる、学際的な
☐ 14. infrastructure	社会基盤、インフラ
☐ 15. stabilize	~を安定させる
☐ 16. utilize	~を利用する



The followings are questions based on the contents of the session. Watch the session and answer each question.

	ain the difference	between a fuel ce	ell and a battery.		
2] Why	can't we install s	olar generation s	ystems in large ci	ties?	
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[1] The following is the summary passage of the session. Write down the appropriate words in the following blanks of the summary.

Solar power generation is a clean end	ergy that does not (	) CO <sub>2</sub> .
When the amount of power (	) on sunny days (	)
demand, it is possible to (	) the excess electricity a	as hydrogen
using a water electrolyzer and a (	) ( ).	We can use
( ) as a fuel for vehicles and	l industry, and (	) fossil fuel
with hydrogen. However, the energy (	) efficiency of so	olar panels is
so small that it requires a (	) area of land to obta	in sufficient
electricity. Solar power generation is	difficult in countries like Ja	apan, where
the country is small and the electricity (	) is very high.	However, it
is possible to ( ) solar par	nels in large countries like A	Australia and
( ) CO <sub>2</sub> -free hydrogen in	some forms. CO2-free hy	drogen that
comes from overseas is ( )	to make it possible for our	country to be
powered by renewable energy.		

2 ] Write down what you learned through today's session.					