中文版對話

（人物：雅琪（女士）、志強（男士））

雅琪：志強，我聽說你最近在研究一種完全不排碳、也沒有核廢料的綠色能源？真的假的？

志強：真的啊！這種能源的核心原理是「熱轉電」，而且不需要燃料，也不產生污染。

雅琪：哇～那是怎麼做到的？感覺很科幻耶！

志強：其實原理不難。早在1910年，物理學家 Tolman 就發現，如果把不同的電解液放在重力場中，它們會出現不同的電位差。

雅琪：所以只靠地球重力就能產生電？

志強：對！我們只要把兩種不同的電解液排在一起，底部用金屬線連接，頂部就會自然產生電壓差，相當於一個可以輸出電能的小電池。

雅琪：這樣電池不會很快沒電嗎？

志強：這正是關鍵。K.T.陳 的實驗證明，只要環境中有熱，也就是分子在震動，這個系統就會持續產生電。因為熱讓離子移動，而重力讓不同質量的離子往不同方向偏，久而久之就產生穩定的電壓差。

雅琪：好酷喔！但你剛說地球的重力太小，那怎麼辦？

志強：這時候就用上離心力了。把裝有電解液的裝置放進高速旋轉的離心機，轉速加倍，輸出能量大約會提升16倍。只要轉得夠快，真的就可以穩定供電了。

雅琪：原來是這樣！那熱怎麼變成電的細節你能講一下嗎？

志強：那個要比較深入一點，你可以看 K.T.陳 做的另一支短影片，裡面有比較仔細的解釋。

雅琪：好啊，我等等就去看。你這能源發明如果成功，地球真的會變得更乾淨呢！

志強：那就看有沒有機會推廣出去啦～呵呵。

English Version of the Dialogue

(Characters: Emily (female), Jason (male))

Emily: Jason, I heard you're working on a new kind of green energy that doesn't emit carbon and doesn't create nuclear waste. Is that true?

Jason: Yep, totally true! It's a clean energy system that converts heat into electricity — no fuel needed, no pollution.

Emily: Whoa, that sounds like science fiction! How does it work?

Jason: The basic idea goes back to 1910, when a physicist named Tolman discovered that in a gravity field, different electrolyte solutions can show different electric potentials.

Emily: Wait, you mean gravity alone can make electricity?

Jason: Exactly. If you line up two different electrolyte solutions and connect them at the bottom with a wire, a natural voltage difference appears at the top. It's like a small battery that can output electricity.

Emily: But wouldn't that battery run out quickly?

Jason: That's the interesting part. K.T. Chen's experiment shows that as long as there's thermal energy — meaning the molecules are vibrating — the system keeps generating electricity. The heat causes ions to move, and gravity makes heavier and lighter ions shift differently, creating a stable voltage.

Emily: That's amazing! But you said Earth's gravity is too weak — how do you deal with that?

Jason: That's where centrifugal force comes in. We put the system in a spinning centrifuge. If we double the speed, the output goes up by about 16 times. Spin it fast enough, and you get a usable amount of energy.

Emily: That's genius! Can you explain more about how heat actually turns into electricity?

Jason: That part's a bit more technical, so K.T. Chen made a short video explaining it in more detail. You should check it out!

Emily: Definitely! If this works, you might be changing the whole future of clean energy.

Jason: Fingers crossed! Let's hope it can get out into the real world.

Video:

重力熱轉電簡單說中文版(How heat turns into electricity by gravity – in simple terms. Chinese Version.) https://youtu.be/djSZXFJ8DjY

How heat turns into electricity by gravity in simple terms - English Version. (重力熱轉電簡單說英文版). https://youtu.be/SfhBsoXdN0o