## **NET Power Inc.**

404 Hunt Street, Suite 410 Durham, North Carolina 27701

September 21, 2023

## VIA EDGAR

United States Securities and Exchange Commission Division of Corporation Finance Office of Manufacturing 100 F Street, NE Washington, D.C. 20549

Attention: Alex King

Erin Purnell

Re: NET Power Inc.

Registration Statement on Form S-1, as amended

File No. 333-273183

Ladies and Gentlemen:

Pursuant to Rule 461 under the Securities Act of 1933, as amended, NET Power Inc. (the "Company") hereby requests that the effective date for the above-referenced Registration Statement be accelerated so that it will become effective at 4:00 p.m., Eastern Time, on September 25, 2023, or as soon thereafter as is practicable.

Please contact Lanchi Huynh of Kirkland & Ellis LLP, the Company's legal counsel, at (214) 972-1673 when the above-referenced Registration Statement has been declared effective or if you have any other questions or concerns regarding this matter.

Sincerely,

NET POWER INC.

By: /s/ Akash Patel
Name: Akash Patel

Title: Chief Financial Officer

cc: Matthew Pacey, P.C. (Kirkland & Ellis LLP) Lanchi Huynh (Kirkland & Ellis LLP)