

This paper has been presented to the 18th World Energy Congress (Buenos Aires, October 2001). It addresses both the needs for a new sustainable global power system and the Lunar Solar Power System.

It discusses four topic areas directly relevant to the Venice Conference.

Demonstration lunar bases are discussed in Section 3 and Table II.

Section 4 discusses the types of industrial operations that must be demonstrated on the Moon.

Section 5 discusses the adaptation of global aerospace capabilities to the rapid deployment of a demonstration lunar base.

Section 6 provides LSP FINDINGS and RECOMMENDATIONS derived from a joint NSF-NASA workshop on automation and robotics planning for advanced large scale power systems.

I hold the copyright on the document. This email permits the "Organizing Secretariat of International Conference on Moon Base" to include this article on the Venice Workshop CD.

The following are papers published after the attached 18th World Energy Council paper.

Criswell, D. R. 2001 (December, 12) Lunar Solar Power System and Minimization of Carbon Dioxide Emissions in the Production of Commercial Power that Enables a Prosperous Global Economy, Session U32B (Biogeophysics of Global Warming Mitigation), American Geophysical Union, Fall Meeting, San Francisco, CA.

Criswell, D.R. 2002 (July) Energy prosperity within the 21st century and beyond: options and the unique roles of the sun and the Moon, Innovative Energy Strategies for CO2 Stabilization , Chapter 9, 345 – 410, (Editor – Prof. R. Watts, Tulane University), Cambridge University Press.

Criswell, D.R. 2002 (April/May) Solar Power via the Moon, The Industrial Physicist, 14 – 17, The American Institute of Physics. Invited Responses

Criswell, D. R. (2002 Oct.) Lunar solar power (LSP) System-Driven human development of the Moon and the resource-rich exploration of the inner solar system, IAA-02-IAA 13.2.07, 6pp., International Astronautics Federation and World Space Congress, Houston, TX

Criswell, David R. (2003, 6 November) Lunar Solar Power, to U. S. Senate Subcommittee Hearing on Lunar Exploration by the Science, Technology, and Space, Senator S. D. Brownback (chair), Russell Office Bldg., Washington, D.C.  
[commerce.senate.gov/pdf/criswell110603.pdf](http://commerce.senate.gov/pdf/criswell110603.pdf)

Criswell, D. R. (2003 December/2004 January, invited), Lunar Solar Power System: A return to the Moon?, IEEE Potentials, 20 – 25, 4 photographs, 4 figures.

Criswell, D. R. (2004, invited) Lunar–Solar Power System, in The Encyclopedia of Energy (editor in chief – C. J. Cleveland, managing editor – R. Matsumura), vol. 3, 677 – 689, 3 tables, 5 figures, Academic Press, Elsevier.

Please include this reply in the Conference CD.

I look forward to meeting and working with you and the other organizers of this valuable international conference.

Best wishes

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