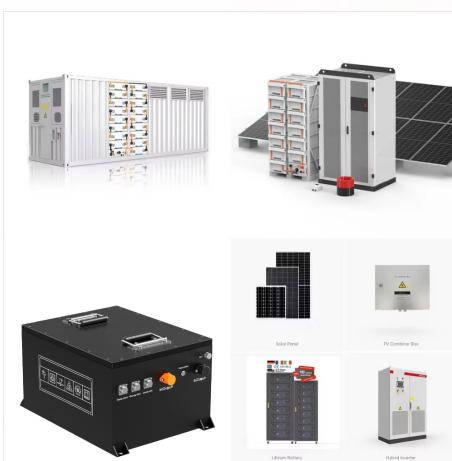




Membrane technologies promise energy-efficient processes for separation of mixtures. The tradeoff between operation time and energy consumption posts constraint on the optimization of such processes. Here the authors establish an equivalence between optimizing the energy consumption within given operation time to finding the geodesic curve in a geometric a?|



In the quest for sustainable nuclear fusion energy, identifying suitable materials for reactor plasma-facing components is crucial. These authors systematically screen potential plasma-facing materials (PFMs) using verified crystal structures and a?|



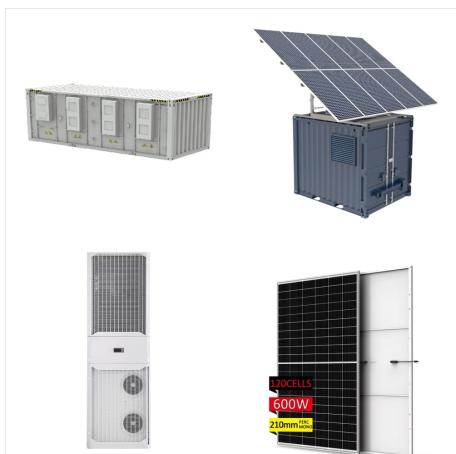
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3 . India's renewable energy capacity additions nearly doubled to 15 GW between April and November compared to the previous year, bolstering its goal of 500 GW non-fossil a?|



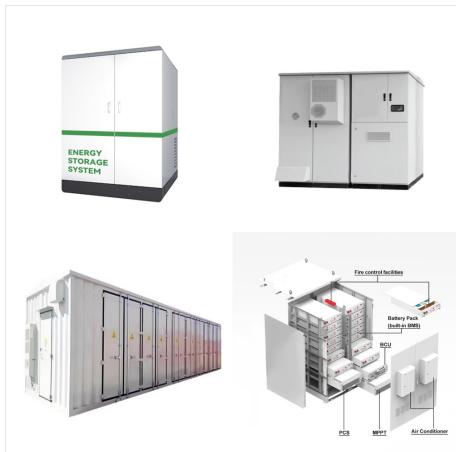
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PRX Energy 1, 033006 (2022) - Published 20 December, 2022. Three classes of ternary oxides are identified as semiconductor candidates for high-power electronic devices using a high-throughput computational workflow and a review of doping and crystal growth feasibility. PRX Energy.



He received his Ph.D. in materials science at IMR, CAS in 2001, supervised by Prof. Hui-Ming Cheng. He works mainly on energy materials. He has published more than 300 papers in peer-reviewed journals, such as *Nature Energy*, *Nano Energy*, *Energy Storage Materials*, *Advanced Materials*, and *Journal of Energy Chemistry*.



But while other countries, from Germany to Japan, have made big strides in clean energy, India has little to show for its efforts. And it still depends on highly-polluting coal for more than half of its electricity. (C)2024 The World from PRX. PRX is a 501(c)(3) organization recognized by the IRS: #263347402.



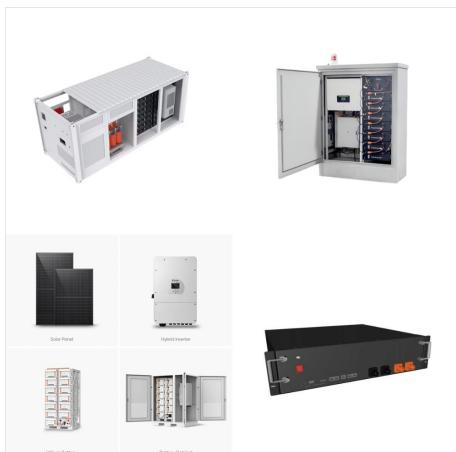
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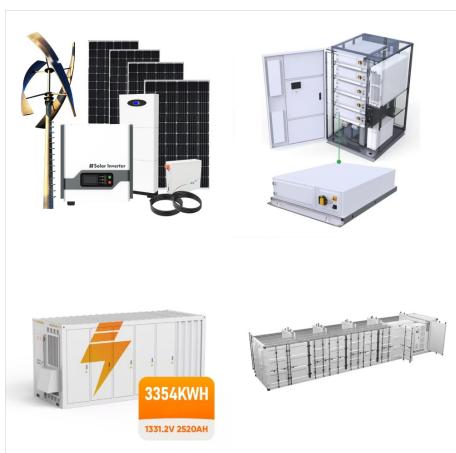
Prior to the signing of the Paris climate agreement, few nations saw India as a leader in climate policy. But in 2015, the world's third-biggest CO2 emitter began a breathtaking transformation, embracing renewable energy and slashing growth in carbon emissions. Now, the country of 1.3 billion people is a leader in clean energy in the developing world.



PRX Energy 3, 043001 (2024) - Published 25 October, 2024. Based on field measurements in the Hexi Corridor in China, this study models the influence of long corridor terrain on atmospheric boundary layer turbulence. These findings are expected to inform the design of wind farms that capitalize on the aerodynamics of the long corridor.



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2 . India has emerged as the leading source of growth in global oil consumption in 2024 and 2025, overtaking China this year, according to our December Short-Term Energy Outlook a?|



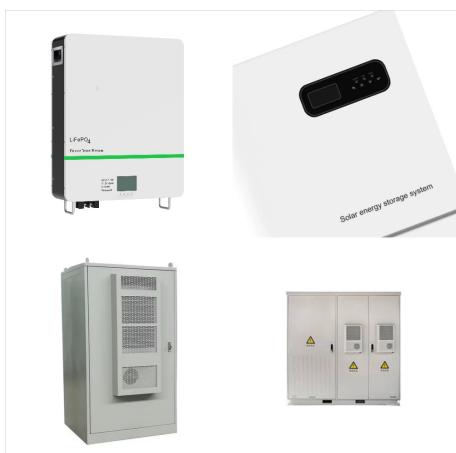
In part 1, we focused on India's electricity, and the potential to expand it using coal and/or solar. We continue with the growth of 2- and 3-wheel electric vehicles in India, the potential to a?|



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1 Institute of Energy and Climate Research (IEK-9), Forschungszentrum Julich, Julich 52425, Germany; 2 Chair for Theoretical Chemistry and Catalysis Research Center, Technical University of Munich, Garching 85747, Germany; 3 Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin 14195, Germany; 4 Heinz Maier-Leibnitz Zentrum (MLZ), Technische a?|



PRX Energy 2, 033008 (2023) - Published 9 August, 2023. With implications for hydrogen transport and decarbonization of gas and electricity networks, the blending of hydrogen with natural gas for transport via existing infrastructures is explored by computing transitions between monotonic, periodic, and chaotic responses to boundary conditions.



PRX ENERGY 3, 013014 (2024) Multiple Lattice Instabilities and Complex Ground State in Cs
2AgBiBr 6 Xing He,¹ Matthew Krogstad,^{2,3}
Mayanak K. Gupta,^{1,4} Tyson Lanigan-Atkins,¹
Chengjie Mao,⁵ Feng Ye,⁶ Yaohua Liu,⁶ Tao
Hong,⁶ Songxue Chi,⁷ Haotong Wei,⁷ Jinsong
Huang,⁷ Stephan Rosenkranz,² Raymond Osborn,
and Olivier Delaire ^{1,5,8,*} ¹Mechanical a?|