Resilient and Sustainable U.S. Supply Chain and Manufacturing Can Be Domestically Sourced with Critical Materials in the Mountain West

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EV batteries are one of the America's Supply Chains areas (others include semiconductors, pharma and active pharma ingredients, and critical material and minerals) that many are seeking to increase resiliency domestically in the near future. The U.S. calls for a strategy to increase raw-materials production and manufacturing capacity to minimize foreign dependence of critical materials to support America's clean energy supply chain and produce more green jobs. An example is DOE Critical Materials program will support research on critical minerals supply chains through public private partnership demonstration projects. States such as Nevada, Utah, and Idaho in the Mountain West could be crucial to this strategy with their access to lithium, cobalt and nickel reserves, mining, and production activities. The opportunities for these states to ramp up engineering, design and innovation to offset the PRC's lead in EV, EV batteries production. Given that Lithium, cobalt, graphite, nickel make up approximately 79% of the cost of production of a lithium-ion battery, innovating these areas close to the location of the materials is an opportunity to support U.S sustainable supply chain engineering and manufacturing of the future.
**References**


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