Military-civilian integration energy storage

As the Chinese government has clearly put forward the development of civil-military integration (CMI) as a national strategy, civilian manufacturing enterprises entering the military products market (CMEE-MPM) can effectively improve China"s national defense science and technology capabilities and can also be an effective way for enterprises to ...

Electrical energy is a basic necessity for most activities in the daily life, especially for military operations. This dependency on energy is part of a national security context, especially for a military operation. Thus, the main objective of the paper is to provide a review of the energy storage and the new concepts in military facilities. Most of this energy is provided by long dated ...

assigned or attached civilian and military assets through a common strategy." If the White House plan for "executing and resourc-ing an integrated civilian-military counter-insurgency strategy" is to succeed, the C2 structure must go beyond the existing plans for civilian-military integration.6 Civilian and military operations are

Innovation and integration is the key direction for the future development of renewable energy power stations. The first is the integration between power stations and development sites, the second is the technical integration between energy development and utilization, and the third is the integration of industrial development (Ye, 2021 ...

Chinese President Xi Jinping on June 20 underscored centralized and unified leadership to boost integrated military and civilian development. Xi, also general secretary of the Communist Party of China (CPC) Central Committee and chairman of the Central Military Commission, made the remarks at the first plenary meeting of the central commission for integrated military and civilian ...

The critical operations of military vehicles present unique requirements for the energy storage system because it requires high energy capacity as well as high power capability [5]. In existing studies, the power and torque ratings of the traction motor were decreased by using a two-stage gear transmission [6, 7].

Such advantageous industrial clusters as new materials, biomedicine and health, modern service industry, mobile Internet, aerospace, information security, additive manufacturing, new energy equipment, advanced energy storage materials, military-civilian integration, cultural creativity, green and energy-saving, artificial intelligence ...

In Section 4, we will contribute to the debate on civilian-military integration and the establishment of a common civilian and military technological and industrial base using suggestions from our case study. ... the

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WEAG was still discussing future naval requirements for energy storage and what would be the best technical type of solution ...

The increasing diversity of energy generation technologies brings a wider range of energy storage technologies on the research agenda. As Fig. 6 illustrates, battery technologies are the most widely covered area in energy storage. Hence, energy storage devices can also be considered largely in association with the battery technologies.

The areas, including infrastructure, national defense-related sci-tech industry, weapon and equipment procurement, talent cultivation, socialization of the support system for the military, as well as the mobilization for national defense, have huge potential for the integration of military and civilian industries, Xi said at the first plenary meeting of the Central Commission for ...

The evolution and emphasis of and methods for conducting CMI vary across countries. The United States began the conversion from military to civilian technology after World War II mainly by declassifying the results of military scientific research and encouraging the transfer of defence scientific and technological output and human resources to civilian ...

Most research on open innovation focuses on innovation performance. However, few people have explored the driving factor of open innovation. This study is based on the entrepreneurial perspective, combined with the new institutional theory, taking 243 A-share listed military-civilian integration companies in China from 2016-2020. A multiple linear ...

Military-civilian integration refers to the deep combination of national defense construction and social and economic development, providing abundant resources and a sustainable development guarantee for the modernization of national defense forces. ... Risk spillover within the carbon-energy system - New evidence considering China"s national ...

Traumatic injury is a leading cause of morbidity globally, particularly in low-income and middle-income countries (LMICs). In high-income countries (HICs), it is well documented that military and civilian integration can positively impact trauma care in both healthcare systems, but it is unknown if this synergy could benefit LMICs.

Tax refund for military-civilian integration enterprises. Resource-based theory: beneficial for CMI firms to obtain more R& D resources. Government subsidy: Setting up the postsubsidy mechanism for the "military-to-civilian" project. Rewarding new firms entering the military market. Subsidizing financing interest for CMI firms

Improving the efficiency of military management is an important link in further strengthening national defense construction. To improve the efficiency of military management, not only must the military"s main role be

brought into play, but also the resources and achievements of academies and enterprises must be fully utilized to take the road of military ...

Military-civilian scientific and technological collaborative innovation (MCSTCI) is an important intersection of civil-military integrated development strategies and innovation-driven development strategies, and has become a brand-new model for Chinese key scientific and technological research. The selection of cooperative partner between military and civilian innovation entities ...

The strategy of deepening military-civilian integration can achieve the seamless integration of military and civilian resources, enhance the innovation capacity of national defence science and technology, elevate the resilience and security of the industrial supply chain, and maximise the benefits for both national defence and society.

titioners--military and civilian--to critically evaluate arguments relating to civil- military relations and to be aware of the implications of their own actions. After laying out the basics of a social science approach to civil-military relations, the primer will discuss the relationship between the military and the civilian govern-

o Civil-military integration will be considered during all aspects of re-search, including during feasibility studies, engineering tests, etc. ... military-civilian integrated development, and make our country prosperous and our armed forces powerful."1 In the immediate run-up to the 12th Five Year Plan (2011-2015), Premier Wen Jiabao ...

1. Introduction. Military-civilian integration (MCI) 1 was promoted as China"s national strategy in 2016, following the announcement of the "Opinions on the Integrated Development of Economic and National Defense Construction [1]" ("2016 Opinions"), jointly released by the Central Committee of the Communist Party, the State Council, and the Central ...

The three-day event provided an open platform for the exchange and integration of military and civilian technology."Through in-depth development of military-civilian integration, military technologies are gradually applied in civilian fields, making high-tech equipment available to commercial markets.

The concept and requirements of integrated military and civilian development should be implemented in such fields as oceans, outer space, cyberspace, biology and new energy, which can serve both military and civilian purposes. The planning, building and utilization of infrastructure in these fields should be dual-purpose, too.

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