

## **The use of nuclear energy to develop nuclear power**

Energy is an important material basis for China's social development and implementation of modernization depends largely on energy supply and effective use. China has made energy a strategic focus in the construction of a socialist economy.

Several years of investigation and research showed that China lags behind in the technology and management of its entire energy system, with low energy utilization rate, serious waste problems and harmful pollutants. Therefore, energy has become a prominent constraint in national economic development. From China's national condition, relying on scientific and technological progress, acceleration in the development and rational use of energy has become a top priority.

China's nuclear industry system has passed its pioneering days, in almost half a century, nuclear science and technology professionals, through the development of strategic nuclear weapons, have achieved remarkable feats. After the country entered the new century, the tens of thousands of people standing at the forefront of the nuclear industry also possess a new attitude as they enter a new era of peaceful nuclear energy use.

Currently the fundamental principle of the nuclear industry is to ensure military production, at the same time focusing on the development and use of nuclear energy, with "Secure for Military, Transfer to Civilian" as a top priority in the development of nuclear power. In construction, while we will have to be self-reliant, but also introduce foreign advanced technology, to promote international cooperation. Economically developed countries lack viable space to build nuclear power plants. To accelerate the construction of nuclear power, we should make full use of domestic technology infrastructure, while at the same time as importing large-scale commercial use power plants, also introduce foreign advanced technology to achieve localization as soon as possible and construct a nuclear power industry system. Nuclear energy supply must come domestically. We must also accelerate the surveying, exploration and development of uranium mineral resources, quickly complete the technical transformation of diffusion plants, expand uranium production capacity, strengthen research-focused on enriching centrifuge technology and new ways of fuel reprocessing and waste disposal technologies. Nuclear-related regulations, standards and procedures should be developed. At the same time as accelerating fission reactor research and construction work, also make appropriate arrangements for controlled nuclear fusion research.