

China's Energy Options: national, regional and global consequences

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But the importance of the issues addressed in the ECEO extends far beyond China. The backdrop of the analysis is the increasingly desperate global search for energy supplies. Not only do all nations confront the end of the era of cheap and plentiful oil and natural gas; it is also essential to conserve energy at a time when soaring consumption fuels global warming.

Though that daunting context is not part of the ECEO, it is clear that if a rapidly developing China

This "Evaluation of China's Energy Options" chooses the same energy options and consumption (ECEO) is a very important and informative analysis of China's energy-supply challenges. The ECEO was prepared for and with the support of China Sustainable Energy Program (http://www.efchina.org/The Program links to the American and Chinese experts and is aimed at assisting "in China's transition to a sustainable energy future by promoting energy efficiency and renewable energy." The ECEO was itself written by an international group of experts on energy issues. They seek to augment the Chinese Development Research Centre's 2004 "National Energy Strategy and Policy 2020" (NESP), an assessment of China's current and future energy needs and how to satisfy them. The ECEO is thus a treasure trove of data and concise analyses of the structure of China's energy demand and supply as well as the relevant institutions and organizations.

China then world greenhouse gas and energy (especially oil) supply problems will be multiplied. What this report does tell us in this regard is that even this is in fact an optimistic scenario.

Consider what we learn from the ECEO. Over 1980 to 2000, China quadrupled its GDP but only doubled its energy usage. Still, China relies on coal for over 2/3 of its energy needs. It also went from being self-sufficient in oil to being a net importer in 1993. It now imports about 40% of the oil it uses, and that figure is projected to increase to about 70% by 2020.

China's NESP analysis projects, over the 20 years from 2000 to 2020, that the country will again quadruple its GDP while only doubling its energy

consumption. The ECEO confronts this optimistic interests. To borrow a little from the language of outlook head on with the facts. Current data indicate public administration, energy efficiency has many of that China's energy use threatens to outpace GDP. The characteristics of a public good. In particular, growth over the period projected in the NESP. Indeed, encouraging energy efficiency is in the collective in the wake of the 1997 Asian Currency Crisis interest. And failure to regulate it promises mega China's annual increase in energy consumption problems not only for China, but for the world. The skyrocketed from a nadir of about -4% to a blistering authors recognize that individual actors will do little rate of over 15% in 2004. As figure 1 in the ECEO to enhance this national and global interest so long as shows, this 15% rate of growth is about double that they are not compelled to, whether by price or policing highest rate of growth in energy consumption factors that place the costs of environmental achieved over 1980 to 2000. And China is just at that destruction on enterprises.

beginning of the curve of private automobile

ownership that promises to further increase oil. The ECEO therefore stresses repeatedly and consumption. It is no wonder, then, that China's, and persuasively that China requires a strong Ministry of international, attention is so keenly focused on energy. Energy to bring together the many dimensions of security. China's immediate challenge is to grow its energy acquisition and use and implement a robust economy while also bringing down this extraordinary regime of controls. In coordination with local rate of increase in energy use as well as shifting away governments, the new ministry could also establish from coal and other dirty fuels towards clean institutions to ensure timely and credible data on alternatives. Its greater and long-term challenge is to energy supply, consumption and prices. Through avert the environmental disaster that looms as a result suggesting these mechanisms as well as a new of its breakneck growth, one that is not limited to structure for financing research and implementation, China but extended globally through such the ECEO fleshes out the vision outlined in the NESP. mechanisms as global warming.

All the same, there is more than one rich irony seated

The ECEO seeks to build on the NESP by sketching at the back of this set of recommendations. In this era structure of incentives so that energy demand can be when decentralization, deregulation and privatization brought under control and concerns over security are the patellar reflex of politics in China and globally, supply be at least balanced with an equivalent zeal. It is instructive to learn that it was China's much-efficiency. The ECEO finds that what is lacking are 1) a maligned central planning mechanisms that helped market prices and other incentives (such as taxes and deep growth in energy use well below GDP growth. subsidies) to encourage efficiency and 2) a central. Moreover, it is also interesting to discover that it was agency empowered to develop and deploy the decentralization of power over energy decisions to mechanisms relatively free of interference from vested state-owned firms that afforded more access points for

vested interests to block efforts at enhancing efficiency in the United States while far more efficient rail transit and shipping remain marginal operations. By contrast, China is in the midst of installing over 12,000 kilometers of high-speed rail networks and strengthening urban public transport. This and similar such systems promise far greater energy efficiency in transport than one finds in the United States. While the ECEO sensibly recommends mass transit, including buses for low-cost intra-city transit, it might have included a comparative treatment of the manifest failures of America's market-oriented energy consumption. America consumes over a quarter of the world's oil, most of it wasted in conservation, and warned of the consequences that China will face as a result of the race to automobilization presently underway in that nation. there is not a word in the ECEO about why the US

A further irony is in reading what is essentially an American report, prepared by the Lawrence Berkeley National Laboratory, with funding from the Packard and Shell Oil Foundations and the Pentagon, that is telling the Chinese what they need to do to control energy consumption. America consumes over a quarter of the world's oil, most of it wasted in vehicular transportation with prices one-third to one-fifth or lower than those in much of the world. Yet

there is not a word in the ECEO about why the US

Department of Energy has failed to rein in this For the article click here
profligacy. As we all know, gasoline taxes are far too low (<http://apjff.org/486.pdf>)