

## Shot List for B-Roll: Nuclear Power's Changing Future

Running time: 15 min

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00:00	Views of Tiananmen Square in the centre of Beijing, main gate to the Imperial Palace ( Forbidden City)
00:24	Street scenes in Beijing
01:10	People in the streets of Shanghai and Beijing
01:54	Views of Qinshan nuclear power plant, China's first nuclear power plant (pressurized- water reactor, 300 MW of electricity) , with self-reliant design, construction and operation was connected to the grid December 1991 thus starting nuclear power generation in the People's Republic of China. Called Phase 1 as it started nuclear power generation.
02:44	Control room of Qinshan 1 nuclear power plant.
03:59	Views of Qinshan 2 ( Phase 2) nuclear power plant, 3 km south of Qinshan 1 plant. Its two units, each pressurized-water reactor, each 600 MW of electricity, are mainly based on self-reliant design and construction. One unit began operation in 2002, another in 2003. Qinshan is a generic name for a big site which continues to grow in phases. Other units, like Qinshan 3 ( Phase 3) have been added to the overall site.
04:34	Control room of Qinshan 2 nuclear power plant. The activity in control room is a periodical test on Reactor Neutron Measuring System (RPN).
06:58	Turbine hall of Qinshan 2
07:24	Building and reactor hall of an experimental high-temperature gas cooled reactor (HTGR) at Institute of Nuclear and New Energy Technology of Tsinghua University near Beijing.
08:03	Control room of HTGR
08:23	Scale model of HTGR. These type of reactors are considered to be part of advanced reactor technology for the future with inherently safe features. The main safety feature is the fuel itself. Each fuel element ( pellet) no bigger than a tennis ball consists of many thousands of microspheres of nuclear fuel the size of a pencil point assembled within a graphite pellet. The reactor is cooled by helium gas, radioactivity is trapped by pellet's coating.
08:55	Fresh fuel pellets for HTGR
09:31	Construction site of China Experimental Fast Breeder Reactor ( CEFR). Still under construction it is to be the first step of the Chinese fast reactor engineering development. Its 65 MW reactor is expected to start operation by the end of 2005. Fast breeders produce more fuel than they started with.
11:17	Questions and answer session with Alan McDonald, Nuclear Energy

	Analyst, on status and outlook of nuclear power worldwide. Question 1: Will there be a growth in nuclear power?
11:54	Question 2: Where is the expansion centred?
12:07	Question 3: Why is it centred in Asia?
12:59	Question 4: Will we see a nuclear renaissance?
13:37	Question 5: How much of the world's electricity is generated by nuclear?
14:04	Question 6: What is the situation like in developing countries?
14:30	Question 7: How many / where do nuclear plants operate today?