

# **The Four Imperatives of Energy and Their Implications in Sustainable Energy Development**

## **能源四要素及其在可持续能源发展中的意义**

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### **Synopsis**

In this presentation, I will explain a new concept of the four imperatives of energy and articulate their implications in sustainable energy development. The four imperatives are, in the order of importance, Power Density, Energy Density, Cost, and Scale.

I will share some of the figures of the four imperatives to illustrate that we should place a balanced approach to coal, oil, natural gas, nuclear, and renewable energy resources and their development. I would propose a priority list of strategies for technological developments in clean coal, natural gas and nuclear power as China's national energy policy, followed by a set of strategies for emission control measures in centralised energy and process industries and renewable energy developments in niche areas.

I sincerely hope that my knowledge, experience, achievements in energy science and technology and my broad vision as well as my commercial successes and failures will help shape our energy policies for a sustainable future.