# Peizhai energy storage project

Why is Pei a good material for energy storage?

Due to the molecular nature of the ether and imide units, PEI exhibits excellent thermal stability, dielectric strength and reliability over a wide operating temperature range. These properties make it the material of choice for high-temperature dielectric energy storage applications [21, 22].

Can Pei films be used for energy storage at high temperatures?

In summary, this research suggests a useful and efficient technique for improving PEI films' capacity for energy storage at high temperatures.

Does a PZT layer increase energy storage density?

By introducing a PZT layer,the polarization and breakdown strength of composite films can be improved,resulting in a higher energy storage density. Fig. 10 a illustrates this,showing that at high-temperature and high-electric field circumstances,the composite films display much higher values of ? and U e than the pure PEI film.

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