



11<sup>th</sup> February 2016  
BJ/SH-L2/ 29

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Dalal Street, Fort  
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National Stock Exchange of India Limited  
Exchange Plaza, 5<sup>th</sup> Floor  
Plot No. C/1, G Block  
Bandra-Kurla Complex  
Bandra (East)  
Mumbai – 400 051.

Dear Sirs,

**Tata Power innovates with Toshiba and Cargill, to design  
and develop India's first Pad mount Substation**

It has been the endeavour of the Company to constantly innovate to enhance safety, overcome the challenges of paucity of space and care for environment. In line with this philosophy, Tata Power has partnered with **Toshiba and Cargill** to design and develop India's first Green, Safe and Compact Natural Ester based Pad Mount Substation.

These substations are safest solution to gradually replace the conventional plinth mounted and Pole Mounted Substation filled with mineral oil, installed in public spaces, which have a fair degree of vulnerability to fire, thus endangering public safety.

The Press Release to be issued by the Company is attached for your ready reference.

Yours faithfully,  
**For The Tata Power Company Limited**

*H. M. Mistry*  
(H. M. Mistry)  
Company Secretary

Encl.

**TATA POWER**

The Tata Power Company Limited

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## **Tata Power innovates with Toshiba and Cargill, to design and develop India's first Pad mount Substation-**

***A Compact, Safe and Eco-friendly solution, saving almost 70% space on conventional Substation***

**National, 11th February, 2016:** Tata Power, India's largest integrated power Company has always been pioneer in adoption of new and innovative technology. The Company has always practiced 'Leadership with Care' by pursuing best practices involving Care for Environment, Community, and Customers.

It has been the endeavor of the company to constantly innovate to enhance safety, overcome the challenges of paucity of space and care for environment. In line with this philosophy, Tata Power has partnered with **Toshiba and Cargill** to design and develop India's first Green, Safe and Compact Natural Ester based Pad Mount Substation.

A Pad mount substation is an integrated unit which houses the HT elements, transformer and LT elements in a tank filled with Cargill's Envirotemp™ FR3™ natural ester fluid. This design has helped reduce the land footprint requirement by almost 70 per cent as compared to conventional substations. This fully enclosed safe, fireproof, green and compact design is ideal for installation in public places like parks, malls etc. The safe and green design of transformer is attributed to the use of Natural Ester which have a Fire point of more than 360 Deg C as against 160 Deg C for Mineral Oil and hence are highly safe.

These substations are safest solution to gradually replace the conventional plinth mounted and Pole Mounted Substation filled with mineral oil, installed in public spaces which have fair degree of vulnerability to fire, thus endangering public safety.

Speaking on the occasion, **Mr. Anil Sardana, CEO & MD, Tata Power**, said, *"We are extremely proud of our Technology and Transmission & distribution colleagues who continue to make use of innovative technology in order to provide the best to the consumers. With the installation of India's first green, state-of-the-art and compact natural ester filled pad mounted consumer substation, we are a step closer towards achieving growth through sustainable development. Tata Power' continues to power the future as pioneers of technological innovations to promote green initiatives"*

**Dr. Katsutoshi Toda, CMD, Toshiba Transmission & Distribution Systems India Pvt. Ltd. (TTDI)** said, *"Technological innovation is the solution to many of our latent needs. Toshiba is extremely proud to associate with Tata Power to bring the best of the technologies in the world to improve the life of millions of people in India. This venture has created safety for people, a cleaner environment and more space to live."*

for immediate use

**PRESS RELEASE**

*Pad mount substations have been used in the United States for a number of years. It is exciting to see Tata Power enhance this best practice with a 70% footprint reduction in their substations," said Mr. Siraj Chaudhry, Chairman, Cargill India "Through collaboration with Tata Power and Toshiba, our FR3 natural ester fluid technology enables these important innovations that improve grid reliability, safety and environmental impact.*

**About Tata Power:**

Tata Power is India's largest integrated power company with a growing international presence. The Company together with its subsidiaries and jointly controlled entities has an installed gross generation capacity of [9036] MW and a presence in all the segments of the power sector viz. Fuel Security and Logistics, Generation (thermal, hydro, solar and wind), Transmission, Distribution and Trading. It has successful public-private partnerships in Generation, Transmission and Distribution in India namely "Tata Power Delhi Distribution Limited" with Delhi Vidyut Board for distribution in North Delhi, 'Powerlinks Transmission Ltd.' with Power Grid Corporation of India Ltd. for evacuation of Power from Tala hydro plant in Bhutan to Delhi and 'Maithon Power Ltd.' with Damodar Valley Corporation for a 1050 MW Mega Power Project at Jharkhand. Tata Power has developed the country's first 4000 MW Ultra Mega Power Project at Mundra (Gujarat) based on super-critical technology. It is also one of the largest renewable energy players in India. Its international presence includes strategic investments in Indonesia through a 30% stake in the leading coal company PT Kaltim Prima Coal (KPC), 26% stake in mines at PT Baramulti Suksessarana Tbk ("BSSR") and a geothermal project; in Singapore through Trust Energy Resources to securitise coal supply and the shipping of coal for its thermal power generation operations; in South Africa through a joint venture called 'Cennergi' to develop projects in South Africa, Botswana and Namibia; in Australia through investments in enhanced geothermal and clean coal technologies and in Bhutan through a hydro project in partnership with The Royal Government of Bhutan. With its track record of technology leadership, project execution excellence, world class safety processes, customer care and driving green initiatives, Tata Power is poised for a multi-fold growth and committed to 'lighting up lives' for generations to come. Visit us at: [www.tatapower.com](http://www.tatapower.com)

**CELEBRATING 100 YEARS OF INVISIBLE GOODNESS****For further information, please contact:**

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