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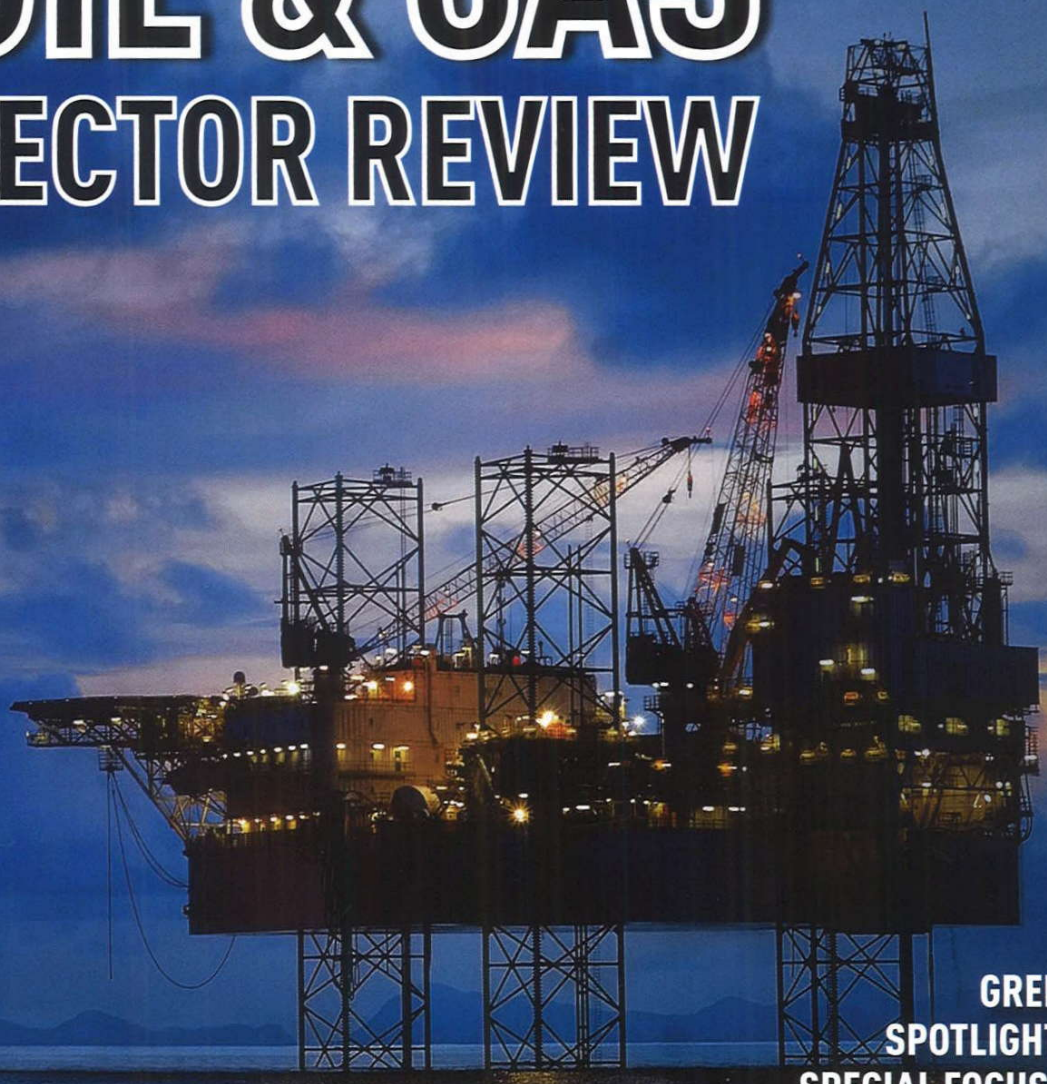
OIL & GAS SECTOR REVIEW



GREEN AHEAD: SOLAR

SPOTLIGHT: BACKUP POWER

SPECIAL FOCUS: POWER TRADING

Mriganka Jaipuriyar,
Associate Editorial Director,
Asia Oil News, Platts

Rahul Gupta,
Director,
Rays Power Experts

Vishal Pandya,
Director,
REConnect Energy

Sanjeev M Nimkar,
V-P, Power Generation,
Kirloskar Oil Engines Limited (KOEL)

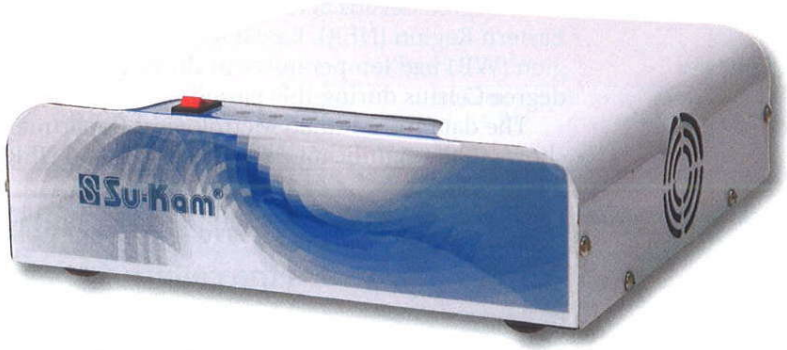
NEXT GEN PUBLISHING

Su-Kam's inverter gets BEE 4 star rating

Su-Kam Power Systems Ltd. has received 4 star rating for its High Frequency inverter by Bureau of Energy Efficiency (BEE), an agency of the government of India under the Ministry of Power. Su-Kam is the first inverter company to receive the star rating from BEE, it is informed.

BEE has developed the star ratings to provide consumers with an easy way of comparing the energy efficiency of different models. Appliances with star ratings have low running cost as they consume less electricity to achieve the same level of performance as similar models of the same size and capacity. It will also give more back up as compared to non-star inverters. Thus, more stars mean more savings. Speaking on the occasion, Kunwer Sachdev, Managing Director, Su-Kam said, "The 4 star rating recognises the focus on energy efficiency and quality that is the core of all our products and technologies. The star rating plan consist of several criteria that need to be fulfilled in order to achieve the rating and I am glad we have met the threshold limits and received 4 star rating for our inverter. This recognition will inspire us to work towards more energy efficient products and technologies."

The company offers inverters that are known for their energy efficiency. The DC to AC conversion efficiency of the high frequency inverter ranges from 89-91 per cent. This is in contrast to other inverters which have efficiencies for DC to AC in the range of 75-83 per cent. Su-Kam's high frequency inverter is a Home UPS that ensures uninterrupted power supply during erratic power cuts.



Acme's Lithium-ion based energy storage system

ACME claims that the 'world's first Made-In-India product' will revolutionise the way energy storage is being used worldwide. EcoGrid is the most technologically advanced energy storage system, made in India by the company at its 27-acre plant at Rudrapur, Uttarakhand. The solution was developed primarily for European grid-tie markets, in conjunction with solar power projects. The company has just entered into an MoU with a European utility wherein it aims to commission 100 MWh of lithium ion energy storage by 2017, starting this year. The company has also developed an off-grid version of this product for the Indian market. The standard product offering for the market in India comes with 6.6 kWh of storage.

A green technology product, EcoGrid has no health hazards. The company aims to sell 5 MWh EcoGrid in India this year. It is a complete plug-and-play solution with in-built DC-DC and DC-AC conversion, which will revolutionise the manner in which energy storage functions. It also integrates with solar in line with the Make-In-India programme.

Key features of this solution are:

- EcoGrid charges fast from 0-100% in 2-3 hours and is quickly available for the next need.
- Round trip efficiency of 95%
- It occupies 1/5th of the space and 1/7th of weight of a normal conventional battery
- Current conventional solutions continue to consume power when there is no load, whereas EcoGrid goes into sleep mode in such conditions, saving energy
- EcoGrid 's 90% depth of discharge (DoD) allows longer back-up power
- 10-year lifespan; 4000 cycle life.
- It has a large temperature variance of -10 C to + 55 degrees C
- Standard offering is 6.6 kWh storage and can be scaled up
- It can sustain a load of 5 kVA for one hour and more than that if not used in full capacity.
- Hardly any maintenance required

EcoGrid can also be used in places for peak-shaving application – Supporting the peak demand.

The company has also developed a range of high capacity Lithium- ion based solutions for industrial application to save production and productivity losses as well as wastage of raw materials. A similar solution is applicable for large buildings as an alternate source of back-up power. The company's corporate office at Gurgaon is India's only battery operated building (BOB) today with 294 kWh of storage. The company is soon going to launch a microsite - *www.ecogrid.in*