



EESL demonstrates energy efficient technology for Surat Textile Cluster to improve production and save energy

The technology has the potential of saving electrical energy to the tune of 11 million units and CO₂ emission reduction of about 9900 tonnes, annually, in the cluster

Surat, May 22, 2019: Energy Efficiency Services Limited (EESL), a JV of PSUs under the Ministry of Power, Government of India along with United Nations Industrial Development Organization (UNIDO) and Ministry of Micro, Small and Medium Enterprises, Government of India, today conducted a technology dissemination workshop on 'Energy Efficient Technologies for the Surat (Textile) Cluster' in the city. The workshop demonstrated the replacement of reciprocating air compressor with a VFD enabled screw compressor with permanent magnet motor. The technology has an investment potential to the tune of about Rs. 20 Cr in Surat Cluster, with electrical energy saving potential of about 11 million units, resulting in a CO₂ emission reduction of about 9900 tonnes per year in the cluster. This is one of the five technologies identified for the cluster.

Mr Sudhir Garg, Joint Secretary, Ministry of Micro, Small and Medium Enterprises inaugurated the workshop, which was graced by dignitaries like Mr Jitubhai Vakharia, President, South Gujarat Textile Processors Association (SGPTA) and Mr SP Garnaik, CGM (Technical), EESL. It was also attended by participants from more than 50 MSME units. The workshop also witnessed the release of a technology flyer and the signing of agreement with MSME Units for the new technology.

The other four technologies which have high replication potential in the cluster are:

- Online combustion efficiency monitoring and control system
- Condensate and flash steam recovery
- PLC control jet dyeing machine
- Installation of micro-turbine

The workshop is a part of the project "Promoting Market Transformation in Energy Efficiency for MSME", which is being implemented by Energy Efficiency Services Limited (EESL) and United Nation Industrial Development Organization (UNIDO) under the Global Environment Facility (GEF) program. It aims to deploy 30-35 technologies in 10 identified MSME clusters, covering more than 470 beneficiaries and seeks to achieve one million tonnes of CO₂ reduction, by institutionalising the revolving fund concept. The duration of the project is 36 months, beginning from November 2017 and going on till October 2020.

The work in this cluster started in the month of August 2018 and since then, eight detailed energy audits have been carried out. Additionally, more than 80 number of surveys have been completed, based on which five energy efficient technologies have been identified, with their replication potential. All these identified technologies have very high replication potential in this cluster. The workshop aimed to propagate the result of the above demonstration to all textile cluster units and deliberate on the business model and its benefits.

The project also aims to adopt various business models of ESCO (Energy Servicing Company), where the MSME units are expected to pay-back the investor from the monetized energy savings, within a stipulated period of time. The scaling up of these technologies would be taken up by EESL through its own investments with suitable payment recovery mechanisms. The successful business models of EESL in energy efficiency projects will be used in this project as "Proof-of-Concept" before bringing investments to this sector.

(For publication/broadcast)