



Press Note

Harnessing Waste Heat from Cement Plants for Power Generation in Karnataka

Date: November 6, 2015

Location: Windsor Manor, Bengaluru

CSTEP, in association with GGGI, BCCI-K and KREDL are jointly organising a Roundtable Workshop on Waste Heat Recovery for Power Generation in Karnataka.

The primary objective of this Roundtable is to facilitate the right policy architecture for enhancing Waste Heat Recovery (WHR) in Karnataka by seeking inputs and initiating a dialogue between key stakeholders including industry representatives, policy makers and researchers.

Karnataka is the fifth most industrialised state in India and among the top producers of cement (~15 Mt) and iron and steel (~10 Mt). The industrial sector is a dominant electricity consumer with over 28% share of the state's total electricity consumption. This sector will continue to be the dominant consumer of electricity till 2030, with its share being in excess of 20%.

WHR is an important Energy Efficiency (EE) measure that could be harnessed by the state, especially for the cement and iron and steel industries. These two industrial sectors account for a majority of the WHR potential in Karnataka (more than 90% of the 900 MW potential in 2030). However, the adoption of WHR is still at an incipient stage in the state (~170 MW). The uptake of WHR systems in cement plants in Karnataka has been slow because of various reasons mentioned below:

- High upfront capital investment (more than INR 7.5 crore/MW)
- Uncertainty in the sale of surplus power, deterring banks from financing these initiatives
- Lack of penetration of WHR technology in Karnataka.

However, due to the high potential present in the state, the targeting is relatively easy for the government to explore new policy measures to encourage the adoption of WHR. This roundtable discussion intends to focus on the obstacles and find ways to accelerate the penetration of WHR systems in the state's cement industry.

The envisaged outcomes of this Roundtable are:

- Inception of a platform for stakeholders to gather and have discussions on the way forward for WHR in Karnataka
- Facilitate knowledge sharing and dissemination by bringing together representatives from the Government of Karnataka, industry associations, companies, vendors and technical experts/institutions on a common forum
- Preparation of a Policy Note for the Karnataka Renewable Energy Development Limited (KREDL) based on the Roundtable discussion
- Convening financial institutions, industry representatives and relevant stakeholders to enable financing for WHR implementation in the future.