

Minutes of the 1st Sector Learning Group Meeting of the Aluminium Sector

20th June, 2015, Bhubaneswar

The first Sector Learning Group (SLG) meeting of the Aluminium Sector was organised on 20th June, 2015 at Hotel Trident, Bhubaneswar from 10.30 am - 2.30 pm. The SLG meeting was hosted by M/s. Vedanta (Sesa Sterlite Limited).

The Knowledge Exchange Platform (KEP) initiative was formally launched by Bureau of Energy Efficiency (BEE) in association with Institute for Industrial Productivity (IIP) on 26th February, 2015 for transfer of best practices in industries covered under the Perform Achieve and Trade (PAT) scheme. A joint Action plan of BEE and Institute for Industrial Productivity (IIP) detailing the roadmap for KEP was released at this launch event. In line with the commitments made in the Action Plan, the SLGs have been constituted for each of the PAT sector, which have representation from Industry Association, industry leaders and technical experts and will act as advisory group for development and implementation of sector specific strategies for KEP. The SLG members will also help in expanding the network of experts and developing strategy to promote peer to peer learning, outreach and rapid uptake of best practices and new technologies within each sector.

The list of the members of Aluminium sector SLG is at [Annexure-1](#). The members of Aluminium Sector SLG, who participated in the first SLG meeting is at [Annexure-2](#) and the detailed agenda of the meeting is at [Annexure 3](#).

The meeting started with an introduction by Shri. K.K. Chakarvarti, Expert Consultant, BEE on the mandate of KEP and the role of SLG members. He mentioned that KEP will be able to fulfil its objectives only with the pro-active industry support and emphasised on the need for constant input and feedback mechanism between industry and KEP. This was followed by opening remarks by the Joint Chairs (Shri Abhijit Pati, Chief Executive Officer (CEO), Vedanta Aluminium Business and Shri R. K. Gupta, President, HINDALCO, Renuagar) of the Aluminium Sector SLG.

Shri Abhijit Pati in his opening remark mentioned that KEP is a Nobel initiative as it is about learning and knowledge exchange. Vedanta was the first to host the first sector workshop under KEP and are committed to supporting it in its future initiatives. He mentioned that friendly energy efficiency exchange visit initiated under KEP was a useful tool for learning and the networking component of KEP will help the industry in achieving competitiveness. He cautioned the members that KEP can only succeed with a collaborative approach for which continuity of interaction under SLG as well as commitment and conviction of all SLG members was important. He also said that



Shri Abhijit Pati giving his opening remark

Aluminium companies have a share in the responsibility for promoting energy efficiency in the country and therefore the companies need to think beyond their own mandate and join hands in collective achievement of the energy efficiency target under PAT while contributing to the larger good of the society.

Shri R. K. Gupta, in his opening remark, mentioned that along with technology, effective management approaches and models are also useful in achieving energy efficiency and KEP should focus on bringing in international best practices covering these aspects. He also suggested developing a core committee or designating a nodal person for facilitating transfer of international best practices. He mentioned that KEP should also focus on transfer of best practices from other sectors to the aluminium sector. He also suggested that some frequency for the SLG meetings should be decided and the venue of the meeting should be convenient to all members.



Shri R K Gupta giving his opening remark

The opening remarks by the Joint Chairs was followed by a presentation (provided at Annex-4) by Ms. Ritu Bharadwaj, Senior Program Manager, IIP, providing an overview of the KEP initiative detailing the objective, progress and the roles of SLG members. This was followed by agenda wise discussion between SLG members.

The key discussion points and decision taken by the SLG members under each agenda item is as follows:

Agenda no. 1: Future Strategies to be adopted by KEP to promote energy efficiency in Aluminium Sector

1. Aluminium is a big sector and therefore there is a need to break it down it to sub-sectors to facilitate effective transfer of best practices. It was accordingly decided to create four sub-sector Core Committees as follows:
 - i. Refinery Core Committee
 - ii. Thermal Power Core Committee
 - iii. Smelting Core Committee
 - iv. Casting and Rolling Core Committee

To facilitate the formation of the core committees, it was decided that the SLG members would nominate 6-7 members per sub-committee and inform BEE by 1st July 2015. The core committee once constituted will nominate one member as the coordinator of the sub-committee. The core-committees will collate case studies/best practices and cull out relevant information for the sector that could be shared widely within and across the sectors.

[Action to be taken: Hindalco, NALCO& Vedanta]

2. The following venue and host of the sub-sector core committee was decided
 - i. Refinery Core Committee by NALCO
 - ii. Thermal Power Core Committee by Hindalco
 - iii. Smelting Core Committee by Vedanta at BALCO or Jharsuguda
 - iv. Casting and Rolling Core Committee by Hindalco

The meeting of the sub-sector core committees would be organized over next 3 months. The core-committees meeting will be organized in such a manner that along with the development and execution of strategies with regard to best practice sharing, plant visits to get practical exposure of innovative/ best practices could also be undertaken.

[Action to be taken: Hindalco, NALCO& Vedanta]

3. The SLG members discussed that there was a need to include the existing (new plants) that are not DCs under the ambit of KEP. To ensure this, it was agreed that Hindalco will send nominations of members from these plants to BEE for inclusion in the SLG.

[Action to be taken: Hindalco]

4. It was decided that in order to facilitate the development of effective strategies and to accelerate the knowledge exchange process within the industry, one of the joint chairs i.e. Shri Abhijit Pati or Shri R K Gupta would join the first few core-committee meetings.

[Action to be taken: Hindalco, & Vedanta]

5. The coordinators of each core committees will be part of the SLG and periodically inform SLG of the progress made at the sub sectoral level.

[Action to be taken: Hindalco, NALCO& Vedanta]

6. It was agreed that the next meeting of SLG will be organized at BEE in November 2015 after the core-committee meetings have been organized over the next quarter. This will help in making sure that the discussions and decisions of SLG, is informed of the progress made by the core-committees.

[Action to be taken: KEP]

Agenda No. 2: To advise on Sector themes and cross sectoral themes and areas where the sectoral knowledge can be of use to other sectors

7. 'Thermal Power' was identified as one of the key areas for cross-sectoral transfer of best practices. It was agreed that BEE through KEP would facilitate sharing of best practices with the power sector. To ensure this, the Thermal Power sector workshop planned at Dahanu, Maharashtra under KEP would be organized in such a manner that it can facilitate sharing of best practices with Aluminium sector. The power sub-sector core committee members and all aluminium DCs will be invited to participate in Dahanu workshop which will also have a half day site visit and interaction with the plant.

[Action to be taken: KEP]

8. The aluminium sector was also keen to learn from the best practices and initiatives made in the cement sector and requested BEE to keep them informed of the sectoral workshop that would be organized for the cement sector under KEP so that they could participate.

[Action to be taken: KEP]

Agenda 3: Guidance on Friendly Energy Efficiency Exchange visits within the sector

9. It was agreed that the sub sector core committee meetings would be organized in such a manner that plant visits to facilitate exposure of the members to the best practices is also achieved. DCs were requested to submit the consent forms to KEP, which have already been circulated to them. At the end of these friendly energy efficiency exchange visits, the DCs would be required to submit a simple form providing information of the new technology/best practices that was learned by the participating DCs.

[Action to be taken: Hindalco, NALCO& Vedanta]

Agenda 4: To help in mapping of innovative, new and cutting edge technologies for Aluminium sector

10. The sub-sector core committees would identify innovative cross-cutting technologies available both at national as well as international level. KEP in parallel would also help in collating information and best practices from international fora and facilitate linkages with international platforms, networks, exhibitions, conferences etc across the four verticals. This would also help in coming out of some level of benchmarking at the level of four sub-sectors. To ensure this, Shri Girja Shankar from BEE and Ms. Vinni from KEP will be the focal point. The coordinators of the four core committees will act as a focal point for their sub sector.

[Action to be taken: Hindalco, NALCO, Vedanta, BEE and KEP]

Agenda 5: To help expand the network of experts within sector

11. The sub sector core committee will develop a list of experts and share it with KEP Secretariat. This will help in development for database of experts that will be put up on the KEP website.

[Action to be taken: Hindalco, NALCO& Vedanta]

Agenda 6: To help develop strategy to promote peer to peer learning, outreach and rapid uptake of best practices and new technologies

12. It was decided that the sub sector core committee members would help in developing a strategy to promote this agenda.

[Action to be taken: Hindalco, NALCO& Vedanta]

Agenda 7: To act as a node for initiating policy discussion Forums on themes those are of interest to the sector

13. It was agreed that issues pertaining to policy discussions would be dealt at the level of SLG. It was decided that, the second PAT cycle was one of the key areas that should be

picked up by KEP for policy discussions. This was particularly important as 3 new DCs were expected to join the next PAT cycle. It was discussed that more standardization needs to be brought in the 2nd cycle of PAT particularly in view of all the learnings that have been generated from the 1st cycle of PAT. KEP through policy discussion forums between BEE and industry can help in achieving this.

[Action to be taken: SLG and KEP]

Agenda 8: Help KEP Secretariat in identifying technological gaps where international best practices/technology providers can be brought in for the benefit of the sector

14. It was agreed that the sub sector core committee members will identify the technology gaps and share with KEP Secretariat which will then help in facilitating transfer of best practices/ technologies in those areas.

[Action to be taken: Hindalco, NALCO& Vedanta]

Agenda 9: Advise on various revenue models to make KEP a self-supporting initiative beyond the initial incubation period

15. It was discussed that it is important to evolve KEP as a self-sustaining initiative for which SLG will work jointly with KEP to identify viable revenue model.

[Action to be taken: SLG]

Agenda 10: Other Agendas with the permission of Joint Chairs

16. Aluminium industry is looking at effective ways for disposal of its waste. Spent Pot Liners (SPL) and Red Mud are few such areas. SPL can be used effectively as an Alternate Fuel in the cement industry. However, it is not happening at the level desired. IIP has another initiative to promote use of Alternate Fuel and Raw Materials in the cement sector and would facilitate interaction between Aluminium and cement sector stakeholders under aegis of KEP to assist in a way that the existing barriers to the use of SPL as alternate fuels in cement industry is promoted.

[Action to be taken: KEP]

17. It was suggested that it is important to motivate industries making special efforts in promoting new technology/best practices and therefore, KEP should consider designing an initiative to recognize outstanding efforts at sectoral and national level through an open and transparent process. It was agreed that in the next SLG meeting, ideas to promote this would be discussed.

[Action to be taken: KEP]

18. It was agreed in each issue of KEP Newsletter, one case study would be shared by Aluminium Sector DCs.

[Action to be taken: Hindalco, NALCO& Vedanta]

19. It was proposed by Shri K. K. Chakarvarti and unanimously agreed by all SLG members that the joint chairs (Shri Abhijit Pati and Shri R. K. Gupta) will represent SLG in the National Advisory Group that would be created by BEE at the national level under KEP.

20. The discussion on the agenda points was followed by concluding remarks from the joint chair.

Shri Abhijit Pati mentioned that, there is a need to achieve speed in the aluminium sector for adoption of energy efficiency practices and technologies as the world is gradually going to demand more energy efficient aluminium products. To achieve this, there is a need for free flow of information and technologies under KEP. He also mentioned that the success of KEP for Aluminium sector depended on effective collaboration within Aluminium DCs as KEP was more about “Knowing Every Person”.

Shri R. K. Gupta mentioned that it was industry’s responsibility to deliver for KEP and within KEP the transfer of national as well as global best practices is very important. To ensure this, there is a need to set up a monitoring mechanism to assess the number of national and global best practices that are shared and replicated.

In the end, Shri Girja Shankar, Asstt. Energy Economist, BEE, thanked the SLG Members for sharing their inputs and urged the industry to treat KEP as their own initiative.

Shri K. K. Chakarvarti and Ms. Ritu Bharadwaj conveyed their sincere gratitude to M/s. Vedanta and its officials for extending their support and making all arrangements for hosting the first SLG meet at Bhubaneswar.

The meeting ended with a vote of thanks to Joint Chairs and all the members.

Members of the Aluminium Sector learning Group

S. No.	Name	Designation	Organization	
1	Shri Abhijit Pati	Chief Executive Officer	Vedanta Aluminium Business	Joint Chair
2	Shri R K Gupta	President	Hindalco Industries Limited, Renusagar	Joint Chair
3	Shri K. K. Chakarvarti	Expert Consultant	BEE	Member
4	Shri Deepak Prasad	Vice President, Smelter	Bharat Aluminium Company Limited, Korba	Member
5	Shri Ashish R Mishra	Refinery Technical	Hindalco Industries Limited, Muri	Member
6	Shri Vijay Gupta	Refinery Technical	Hindalco Industries Limited, Belgaum	Member
7	Shri Sunil Gujarati	Engineering	Hindalco Industries Ltd, Taloja	Member
8	Shri Dayanidhi Behera,	Vice President Aluminium	Sesa Sterlite Limited, Jharsuguda	Member
9	Shri Mahesh Sahoo	Smelter Technical	Hindalco Industries Limited, Hirakund	Member
10	Shri U.C. Swain	GM(O&M), Al. Refinery	National Aluminium Company Limited, Damanjodi	Member
11	Shri Bimalananda Senapati	Sr.Vice President, Refinery	Sesa Sterlite Limited, Lanjigarh	Member
12	Shri Rajeev Jhunjhunwala/ Shri H P Gupta	Energy manager/ Refinery Technical	Hindalco Industries Ltd., Renukoot	Member
13	Srhi D. Mohapatra	GM(O&M), Smelter	National Aluminium Company Limited, Angul	Member
14	Dr. Anupam Agnihotri	Director	JNARDDC, Nagpur	Member
15	Shri Debasish Ghosh		Hindalco Technology	Member
16	Shri S K Khandare	Energy Economist	BEE	Member
17	Shri Girja Shankar	Asst. Energy Economist	BEE	Member
18	Ms. Vinni	Program Associate	Knowledge Exchange Platform	Member

ANNEXURE 2

List of members who attended the Aluminium SLG meeting on 20th June, 2015

S. No.	Name	Designation	Organization
1	Shri Abhijit Pati	Chief Executive Officer	Vedanta Aluminium Business
2	Shri R K Gupta	President	Hindalco Industries Limited, Renusagar
3	Shri K. K. Chakarvarti	Expert Consultant	BEE
4	Shri Ashish R Mishra	Refinery Technical	Hindalco Industries Limited, Muri
5	Shri Vijay Gupta	Refinery Technical	Hindalco Industries Limited, Belgaum
6	Shri Dayanidhi Behera	Vice President Aluminium	Sesa Sterlite Limited, Jharsuguda
7	Shri Mahesh Sahoo	Smelter Technical	Hindalco Industries Limited, Hirakund
8	Shri U.C. Swain	GM(O&M), Al. Refinery	National Aluminium Company Limited, Damanjodi
9	Shri Bimalananda Senapati	Sr. Vice President, Refinery	Sesa Sterlite Limited, Lanjigarh
10	Shri Rajeev Jhunjunwala	Energy manager	Hindalco Industries Ltd., Renukoot
11	Shri H P Gupta	Refinery Technical	Hindalco Industries Ltd., Renukoot
12	Shri Debasish Ghosh		Hindalco Technology
13	Shri Girja Shankar	Asst. Energy Economist	BEE
	INVITEES		
14	Shri Bijneswar Mohanty	General Manager	Sesa Sterlite Limited, Jharsuguda
15	Ms. Ritu Bharadwaj	Sr. Program Manager	Institute for Industrial Productivity

ANNEXURE 3

Agenda of the Aluminium SLG meeting on 20th June, 2015
at Hotel Trident, (The Chandni), CB-1, Nayapalli, Bhubaneswar

10.30 am - 2.30 pm on 20th June, 2015 (Saturday)
Hosted by M/s. Vedanta (Sesa Sterlite Limited)

- 10.30 am-11.00 am**
- **Opening Remarks by Joint Chairs(Shri Abhijit Pati, CEO, Vedanta Aluminium Business and Shri R. K. Gupta, President, Renuagar)**
 - **Presentation on KEP Initiatives by Ms. Ritu Bharadwaj, Sr. Program Manager, IIP**

11.00am-01.30 pm **Agenda for Discussions:**

1. Future Strategies to be adopted by KEP to promote energy efficiency in Aluminium Sector
2. To advise on Sector themes and cross sectoral themes and areas where the sectoral knowledge can be of use to other sectors
3. Guidance on Friendly Energy Efficiency Exchange visits within the sector
4. To help in mapping of innovative, new and cutting edge technologies for Aluminium sector
5. To help expand the network of experts within sector
6. To help develop strategy to promote peer to peer learning, outreach and rapid uptake of best practices and new technologies
7. To act as a node for initiating policy discussion Forums on themes those are of interest to the sector
8. Help KEP Secretariat in identifying technological gaps where international best practices/technology providers can be brought in for the benefit of the sector
9. Advise on various revenue models to make KEP a self-supporting initiative beyond the initial incubation period
10. Any other Agenda with the permission of Joint Chairs

Concluding Remarks by Joint Chairs

01.30pm-02.30 pm **LUNCH**

Presentation of KEP Initiative

Aluminium Sector 1st SLG Meeting

Knowledge Exchange Platform

Rationale behind KEP

- Industry accounts for more than half of the total commercial energy use in India (700 MTOE)
- Industry is energy intensive and offers good scope for energy savings and GHG mitigation through rational use of energy
- High bandwidth of specific energy consumption across units within a sector
- Better performing units desperately seeking information on innovative approaches and new opportunities to take them to next level
- Significant opportunities of learning across industry sectors
- Indian success stories can be good examples for neighboring countries/LDCs to follow

KEP is designed to provide a vibrant platform, anchored at BEE, to promote knowledge transfer with active industry participation.

KEP Objectives

- To encourage peer to peer learning by facilitating knowledge and information transfer within a particular sector
- Facilitate exchange of information and best practices across industry sectors in areas that have high replication potential
- Sharing of knowledge and capacity building on new and innovative approaches through international best practices
- Facilitate Policy Discussion Forums on Trading, Financing and other cross cutting issues

KEP: Vision

Short to medium term

Develop KEP as a vibrant Platform for sharing of knowledge and experience to support BEE and the industry in implementation of the PAT scheme

Long-term

Develop KEP as a self supporting Regional knowledge hub to promote Energy Management System (EnMS) in the industry sector

KEP: the Journey So Far

- KEP formally launched on 26th February, 2015 and a Secretariat for management of KEP established at BEE
- A joint Action plan of BEE and IIP detailing the roadmap for KEP released by Shri P. K. Sinha, Secretary, Ministry of Power
- SLGs constituted for all PAT sectors - 1st SLG meeting of Aluminium and Cement sectors are planned on 20th June, 2015 and 22nd June, 2015 respectively
- Sector level workshops and technology exhibitions being organised in partnership with Industry
 - Started this series with Aluminium Sector workshop in April, 2015 in partnership with Sesa Sterlite Limited
 - next sector-specific workshop is being planned for Cement sector in June, 2015 at Jodhpur (Rajasthan) in partnership with JK Cement
 - Paper and Pulp sector (at New Delhi), Textile sector (at Thane, Maharashtra) and Thermal Power Sector (at Dahanu, Maharashtra) workshops planned over next quarter
- Series of 'Blogs' initiated- first on 'Normalisation', where every queries of Industry and other stakeholders were addressed
- Facilitation of friendly energy efficiency exchange visits to encourage active learning- so far very positive response from industry
- Design and development of KEP website underway

Role of SLG

To ensure ownership of the industry and to act as a sounding board in matters relating to the sector

- To advise on the theme/contents and timing of the sectoral workshops
- To facilitate contribution from the sector in newsletters, roundtables etc.
- To advise on cross sectoral themes and areas where the sectoral knowledge can be of use to other sectors
- To act as a node for initiating policy discussion Forums on themes that are of interest to the sector
- Help KEP Secretariat identify international best practices/technology providers for the benefit of the sector
- Advise on field visits/exposure visits within and across the sectors for dissemination of success stories
- To advise on developing resources for the website that would be of interest to the sector
- Advise on various revenue models to make KEP a self supporting initiative beyond the initial incubation period



Feedback, comment and suggestions
requested at kep@beenet.in