

Sustainable Fly Ash Utilization

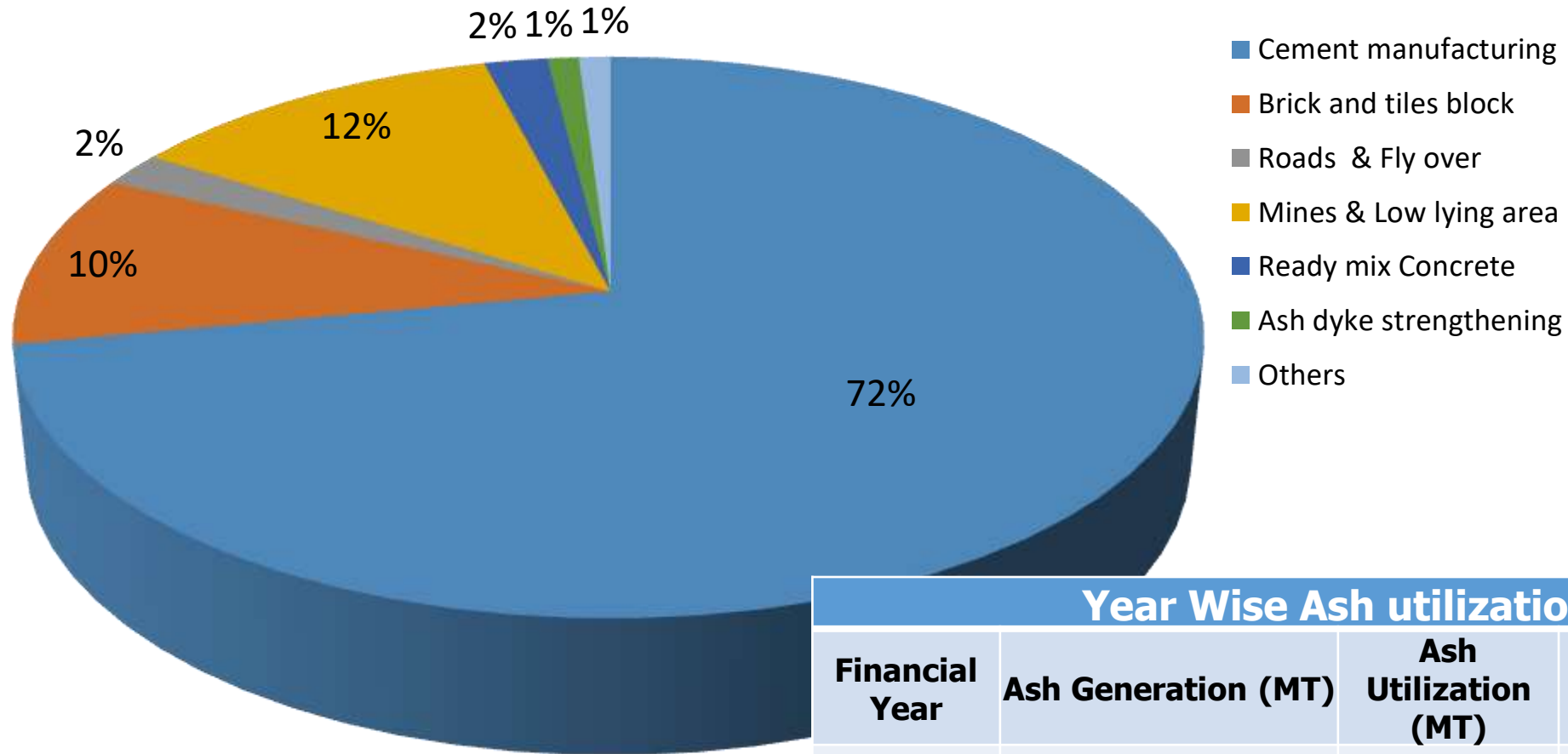


100% Fly Ash Utilization since inception

Lalitpur Power Generation Company Limited

Sustainable Fly ash Utilization: LPGCL

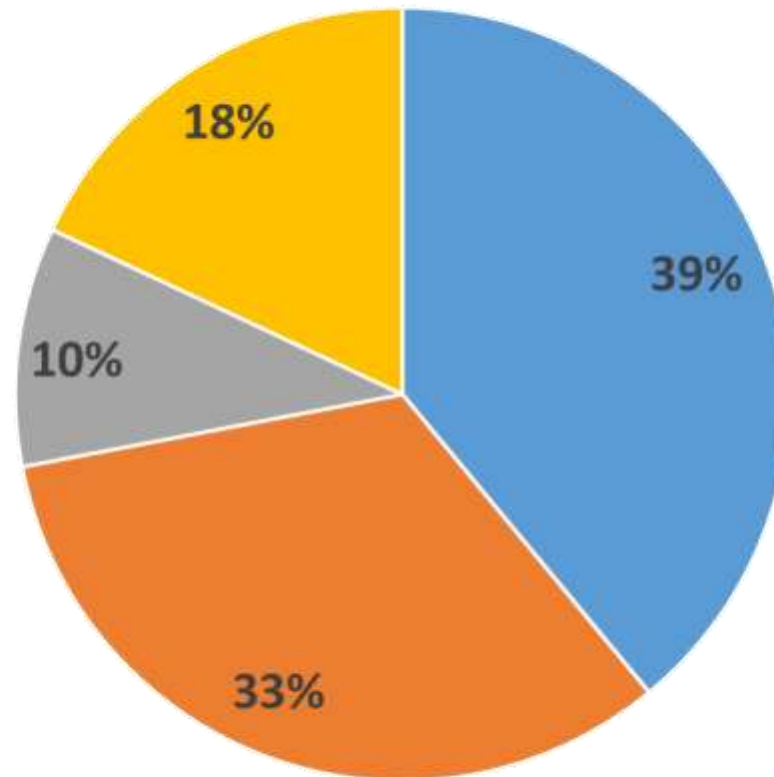
Major sustainable fly ash utilization areas



Year Wise Ash utilization			
Financial Year	Ash Generation (MT)	Ash Utilization (MT)	Yearly Utilization (%)
2017-18	1702566.0	1462937.2	85.93, rest in dyke
2018-19	1133435.1	1179541.1	104.07
2019-20	1415789.1	1511563.2	106.76
2020-21	1440171.7	1743024.2	121.03
2021-22	2094290.2	2096948.85	100.13

Sustainable Fly ash Utilization: LPGCL

Mode of Ash Supply (%)



■ Rail Rake ■ Road ■ Covered trucks container ■ Covered hywa

Sustainable Fly ash Utilization: LPGCL

Ashtech India (P) Ltd. : Our partner for sustainable usage of fly ash

- Having MoU with several Cement plants;
 - Heidelberg Cement
 - Prism Cement
 - Birla Cement
 - Ultratech Cement
 - ACC Cement
 - Reliance Cement etc.

Financial Year	PLF (%)
2016-17	38.20
2017-18	49.39
2018-19	31.42
2019-20	41.25
2020-21	42.03
2021-22	55.07

Sustainable Fly ash Utilization: LPGCL

- Water spray
- Screen
- Plantation
- Recycling of cleaning water



Sustainable Fly ash Utilization: LPGCL

Utilization of dry fly ash in Cement industry through Rail Route

Financial Year	No. of Rail Rakes
Nov'20 – March'21	13
Apr'21 – Dec'21	95
Jan'22	19
Feb'22	19
Mar'22	22
April'22 (Till 17.04.22)	17
Total	185 rakes



Sustainable Fly ash Utilization: LPGCL

- High Concentration Slurry Disposal System (HCSD) operation : Almost nil
- To prevent the over exploitation of top soil and convert the barren land into Agricultural land, fly ash is being utilized eco-friendly manner.
- Gainful utilization of approx. 630 acres low lying & barren land through scientific disposal.



6000 MT Dry fly ash Silo installed



Brick manufacturing unit



Void Mines



Reclaimed with Ash



Green crop on reclaimed land

Sustainable Fly ash Utilization: LPGCL

Utilization of wet ash in Low lying area reclamation/ Void Mine filling

- The ash is transported only in covered trucks/hywas.
- The disposed site is covered with soil and compacted for productive utilization.

Before



Village play ground

After



Void mines to residential plot



Sustainable Fly ash Utilization: LPGCL

Plant in the heart of village cluster as well in between two rivers Sajnam & Utari

- Going beyond compliance & risk
- Empowered Village Development Advisory Committee (VDAC) accessibility to plant any time.
- *Aiming* Plant's area as a "**Green Orchard Beach**, housing **2000 MW Power plant** too".

Green Orchard Beach: LPGCL



Main plant i.e. BTG



Plant's Lord Vishnu Temple



Within the Plant



Nursery



Thanks: EHS Team