











## Solar at Nanda Group

-	STATE	CAPACITY	LOCATION	TYPE	
1	Tanang, Maharashtra	50 KWh	Mash Feed Plant	Grid Connected (no battery	
2	Hebbani, Karnataka	80 KWh	Breeding Farm		
3	B.G.Palya, Tamil Nadu	55 KWh	Hatchery	bank)	
4	Sathnur, Karnataka	55 KWh	Breeding Farm	Off Grid System (no battery bank)	





#### Solar Case Study at Tanang, Maharashtra

(5 TPH Breeder Mash Feed Plant)

	DESCRIPTION		WITHOUT SOLAR CY 2018	WITHOUT SOLAR CY 2021	
1		No. of tons	13,391	15,842	
2		MSEB bill	10,71,420	696,344	
3		Cost / Ton	80	44	

- Solar plant capex (grid connected, no battery bank) Rs 23,50,000
- MSEB Savings / Year Rs 375,076
- ROI 6 Years, 3 Months





# CapEx/ROI

- On grid without battery bank Rs 50,000 / KWh approx
- Off grid with battery bank Rs 90,000 to 110,000 / KWh approx
- On grid ROI 6 years
- Off grid ROI 8 to 9 years
- Grid power vs Solar power
- 25 to 30% electricity bill savings







### Importance of Solar Energy



Uninterrupted power pellet mill jamming, ventilation (fans, misting) & lighting



Reduction in electricity charges (utility companies have bad financial conditions, leading to continuous increase in cost)



Roof top real-estate put to use (hatchery, feed plant & chicken house)



Accelerated income tax depreciation of 40% - asset creation



Safety of electronic equipment – low replacement & low maintenance cost



Clean energy, responsible corporate citizens





## Practices in Solar Space

- Opex vs Capex model
- Ground mounting vs roof top
- Preheat water reduction in steam generation cost pellet plant
- AHIDF benefit solar investment
- AMC concept battery & solar panels





## Challenges in Solar

- Oversizing of the plant precision load calculations
- Loss making Rs. 3.70 / unit vs Rs. 7.50 / unit
- High initial investment
- Lack of knowledge of govt. support schemes for solar
- Power generation weather & radiation dependent
- Negative perception of people & companies towards solar solution
- Periodic maintenance battery bank & solar panels





### **Appreciate Inputs from**

Life Line Feeds India Pvt. Ltd.

Chikkamagaluru, India

Padmavathi Poultry Farm,

Chintamani, India









## Care and invest in the future

Clean energy is the answer for our environment, our children and the generations to come

# Do Something!