



## Biodiversity Conservation at NTPC Limited

Sharm El-Sheikh, Egypt



- About NTPC

- Why Biodiversity?

- Initiatives taken till date

- Project in Focus



# About NTPC



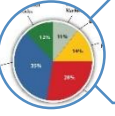
10th Largest Power Utility Globally in terms of capacity with majority shareholding of Government of India



Globally ranked No.1 IPP by Platts and 512<sup>th</sup> largest company in Forbes ranking 2018



Annual revenue is US \$12.5 billion and PAT is US \$1.5 billion



Diversified business portfolio of Power generation, Coal Mining, Consultancy, Power Trading



53 GW company constituting 16 % of India's total installed capacity but supplying 23 % of its total demand



Touches lives of 30 million people through its power generation and allied activities

## Vision

To be the World's  
Leading Power Company,  
Energizing India's Growth

## Mission

Provide Reliable Power and Related  
Solutions in an Economical, Efficient  
and Environment friendly manner,  
driven by Innovation and Agility



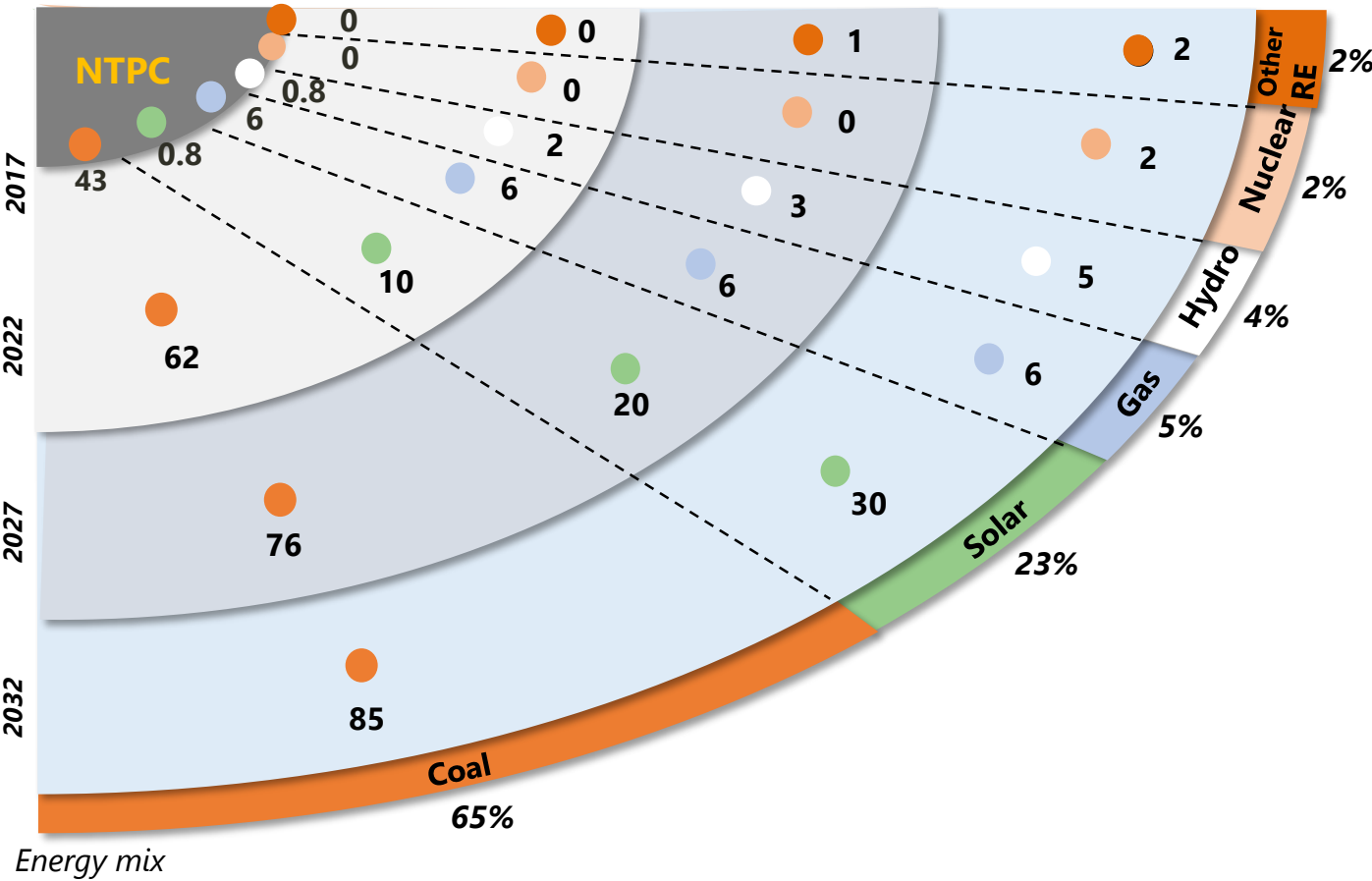
# Present Fuel Mix and Future Goals

Present @ 2018

NTPC @ 2032

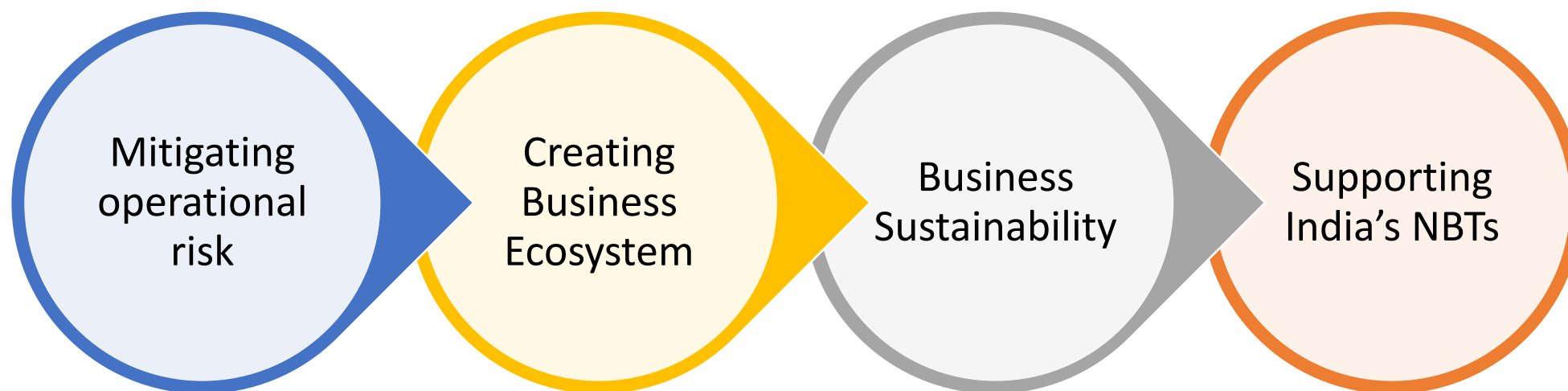
52.9 GW	Fuel Type	130 GW
85.4 % (45 GW)	Coal	65.4% (85 GW)
1.6 % (0.87 GW)	Solar	23.1% (30 GW)
11.4% (6 GW)	Gas	4.6% (6 GW)
1.5% (0.8 GW)	Hydro	3.8% (5 GW)
0%	Nuclear	1.5% (2 GW)
0.1% (58 MW)	Other RE	1.5% (2 GW)

Power generation portfolio (GW)



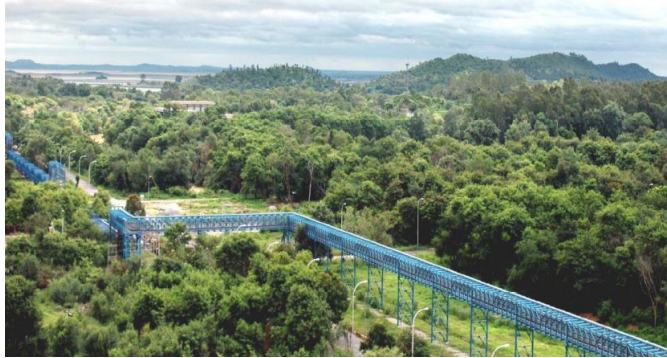


# Why Biodiversity?



# Biodiversity Projects: Green belts & Afforestation

## NTPC Projects



Rihand



Singrauli



Farakka



Singrauli



Simhadri



Talcher

## Species

*Cassia seamea*

*Cassia fistula*

*Dalbergia sisoo*

*Pongamia pinnata*

*Azadirachta indica*

*Syzygium cumini*

*Prunus dulcis*

*Terminalia arjuna*

*Melia azedarach*

*Annona squamosa*

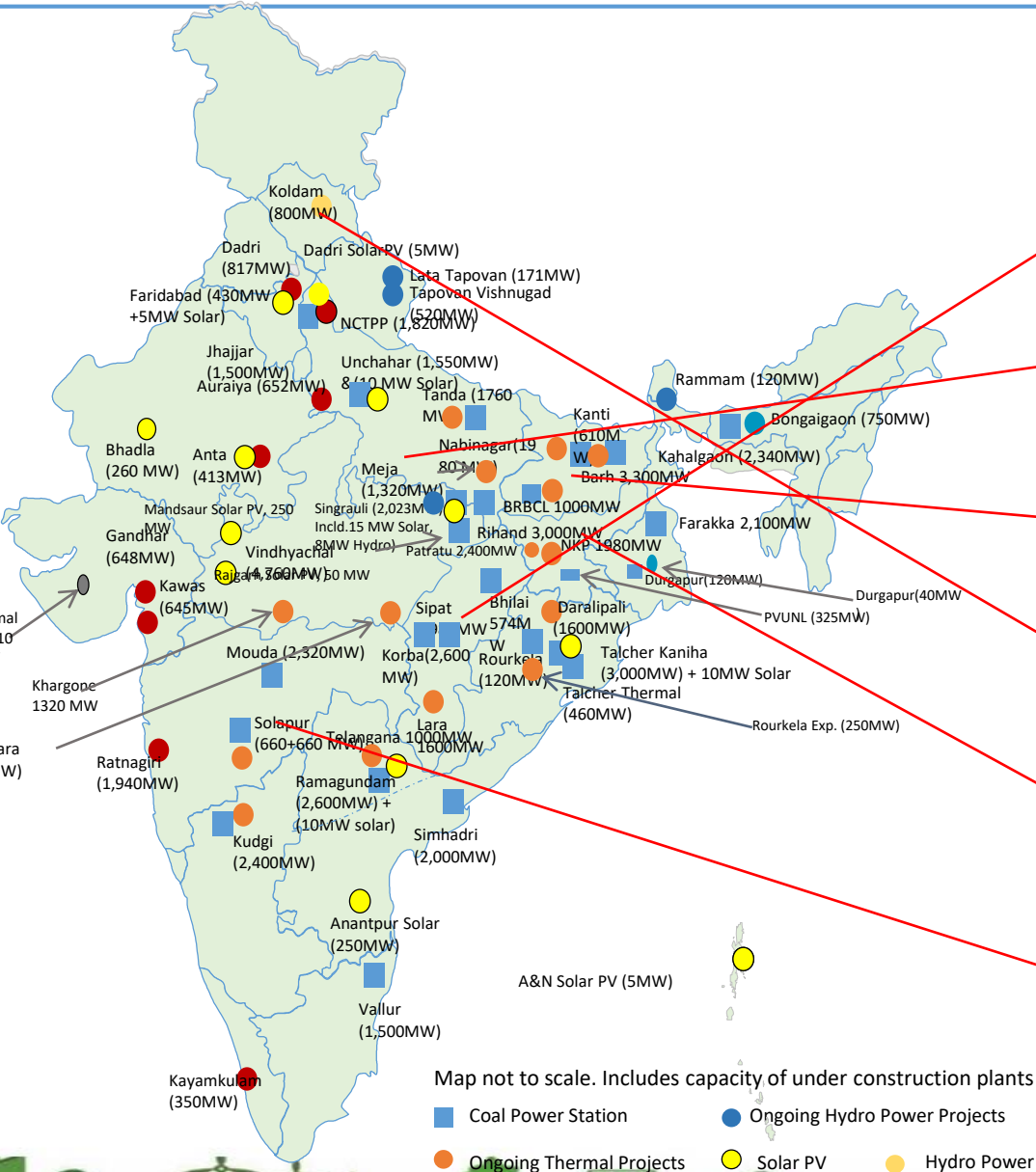
*Mangifera indica*

*Saraca indica*





# Biodiversity Projects: Wildlife Conservation Plans



Species	IUCN Red List	Picture
Sloth bear ( <i>Melursus ursinus</i> )	Vulnerable	
Black Buck ( <i>Antelope cervicapra</i> )	Near Threatened	
Gangetic Dolphin ( <i>Platanista gangetica</i> )	Endangered	
Cheer Pheasant ( <i>Catereus wallichii</i> )	Threatened	
Elephant ( <i>Elephas maximus</i> )	Endangered	
Great Indian Bustard ( <i>Ardeotis nigriceps</i> )	Critically endangered	

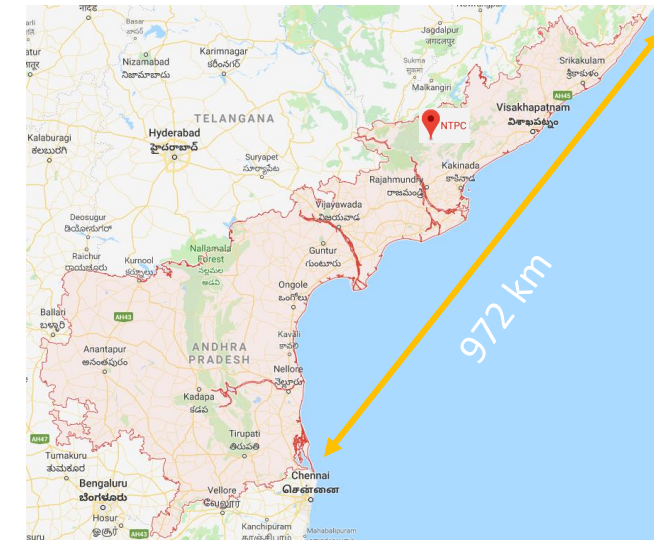
# Olive Ridley Turtles: Conservation Efforts by NTPC

## ❖ About

- Olive Ridley Turtle (*Lepidochelys olivacea*) comes under the Vulnerable IUCN RED list
- 972 km long coastline of Andhra Pradesh state of India houses 9 ORT breeding grounds
- NTPC's Simhadri plant operates 40 km away from one of these breeding grounds
- In 2010 conservation program was started by Andhra Pradesh Forest Department

## ❖ Initiatives by NTPC

- Signed a five-year agreement for conservation with AP Forest Department in 2016
- Committed US \$ 0.63 Million to support to the conservation initiatives
- Supported forest department in
  - Creating awareness within community along the coastal areas
  - Identification of important nesting beaches
  - Development of hatcheries and ensuring their security

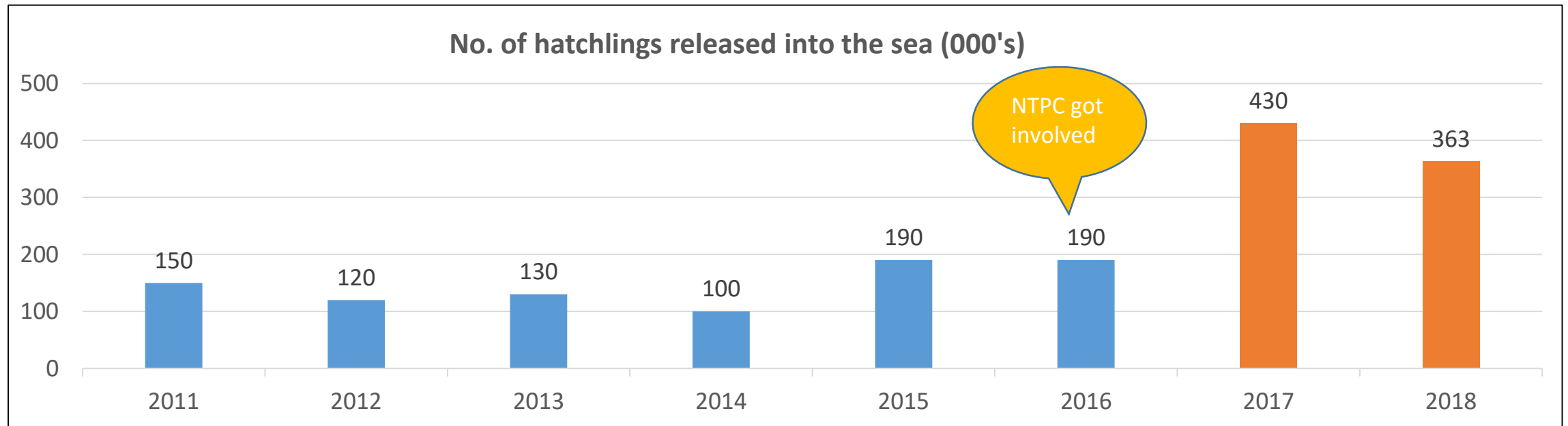




# Olive Ridley Turtles: Conservation Efforts by NTPC

## ❖ Results

- Increased community participation
- Increasing trend in the hatchlings released into the sea water



# Excavating the Nests After Hatchling Emergence





# Collecting Hatchlings into Basket





# Releasing of Hatchlings into Sea





# Community Members Protecting Hatchlings From Predatory Animals



# Hatchlings on the way to Sea





# Thank You







*Screening of documentary 'Every Turtle Matters' in Srinivasapuram, Vakadu Mandalam.*

