

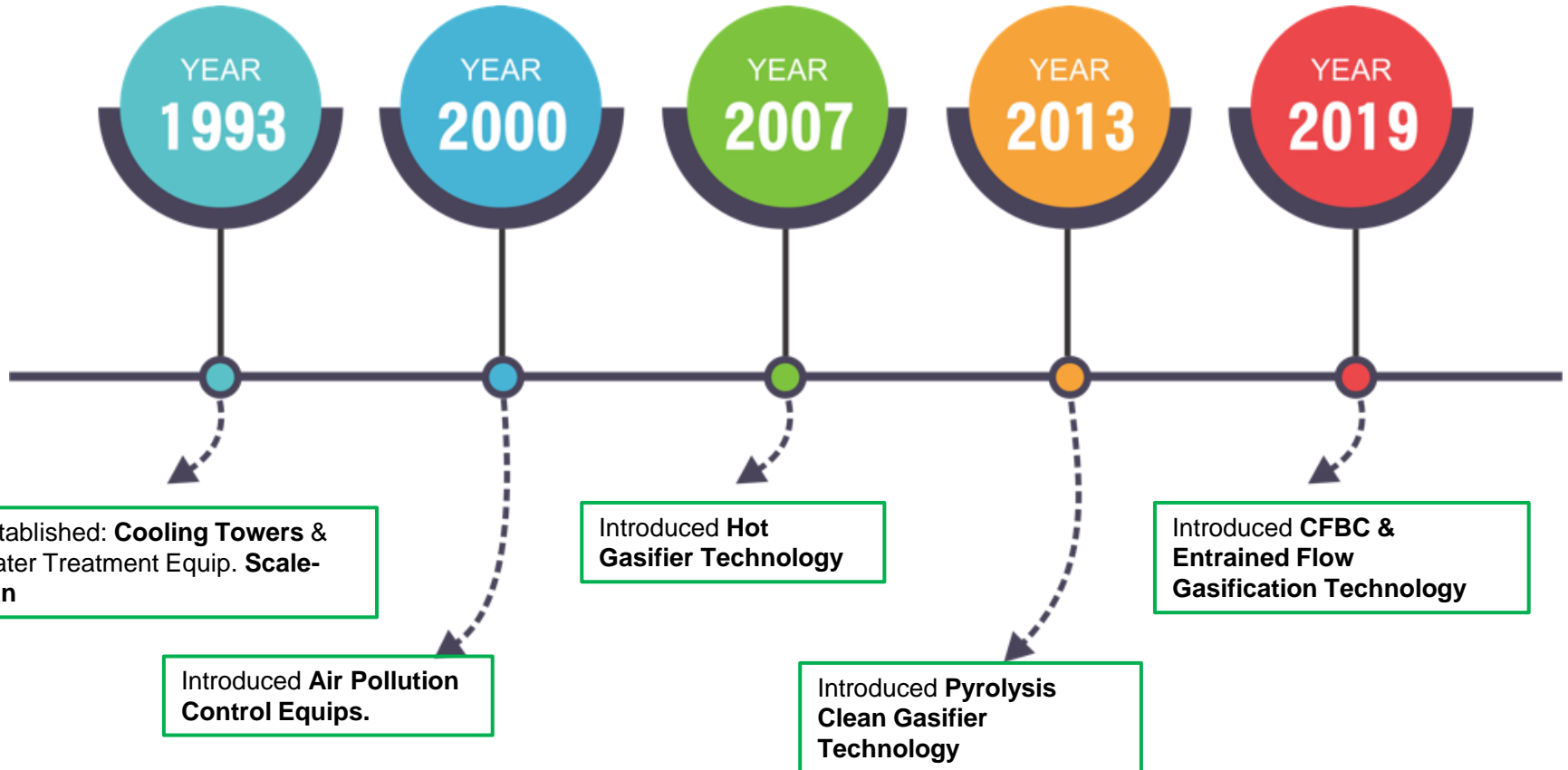


# Coal Gasification Technologies you can choose from....

## CASE Coal Gasification Basket



# MILESTONES



Working for a cleaner and greener tomorrow.....

# ACHIEVEMENTS

**10000+  
Cooling  
Tower  
Installations**

**1000+  
Scale-Ban  
Installations**

**500+  
APCD  
Installations**

**200+  
Gasifier  
Installations**

**90+ CFBC  
Gasifier  
Installations  
(KEDA)**

# HOT GASIFIER

**GASIFIES LUMP COAL (15-60mm)**

**GAS EXIT TEMPERATURES  $>450^{\circ}\text{C}$**

**ZERO LIQUID DISCHARGE (ZLD)  
TECHNOLOGY**

**CAPACITIES FROM 1.2-15.6 Million  
Kcal/hr IN SINGLE CELL**

**GAS THERMAL HEAT VALUES  
 $>1800\text{KCAL}/\text{NM}^3$**

**SUITABLE FOR**

- ROLLING MILLS,
- HEAT TREATMENT FURNACES,
- STRIP MILLS,
- REFRACTORY ETC.



# COLD PYROLYSIS GASIFIER

**GASIFIES LUMP COAL (15-60mm)**

**GAS EXIT TEMPERATURES  
<45°C**

**ZERO LIQUID DISCHARGE  
(ZLD) TECHNOLOGY**

**CAPACITIES FROM 1.2-  
15.6 Million Kcal PER CELL.**

**BURNER LEVEL AUTOMATION  
POSSIBLE**



**HIGHER % OF C<sub>n</sub>H<sub>m</sub> RESULTING IN FINAL GAS CALORIFIC VALUE  
>1400KCAL/NM<sup>3</sup>**

**SUITABLE FOR AUTOMATIC ROLLING MILLS, GLASS PLANTS,  
PELLET PLANTS, ALUMINIUM PLANTS ETC.**

# CFBC GASIFIER

**GASIFIES COAL  
FINES (MINUS  
10mm)**

**GAS EXIT  
TEMPERATURES  
<45°C**

**ZERO LIQUID  
DISCHARGE (ZLD)  
TECHNOLOGY**



**CAPACITIES FROM 13-  
78Million Kcal/hr IN SINGLE  
CELL**

**GAS THERMAL HEAT  
VALUES >1300KCAL/NM<sup>3</sup>**

**SUITABLE FOR ALUMINIUM  
CALCINATION, PELLET  
PLANTS, INTEGRATED  
STEEL PLANTS ETC.**

# ENTRAINED FLOW

## GASIFIER

**GASIFIES COAL FINES  
(MINUS 100 MICRONS)**

**99.99% OXYGEN USED AS  
GASIFYING AGENT**

**ZERO LIQUID DISCHARGE  
(ZLD) TECHNOLOGY**

**CAPACITIES FROM 25-  
200 Million Kcal/hr PER CELL.**



**FINAL GAS CALORIFIC VALUE CAN REACH UP TO  
2500KCAL/NM<sup>3</sup>**

**LOCAL HIGH ASH COAL FINES CAN BE GASIFIED THUS  
MAKING THIS THE MOST EFFICIENT GASIFICATION PROCESS**

# INDIA & GASIFICATION

## VISION OF OUR HON'ABLE PRIME MINISTER

**GASIFY 100 MILLION METRIC TONNES OF COAL BY 2030.**



**India looking at technology in coal gasification to get clean energy: PM Modi**

*"This is right that the world's third largest coal reserves is in India. In a poor country like India, we cannot ignore it but there is a solution to it," he said*



# NEED FOR GASIFICATION

- coal gas is the cheapest available fuel (hfo, ng, lpg etc.)
- huge reserves of coal in India- 300Billion Tonnes.
- 10 years to consume this huge reserve before a new energy source is developed.
- coal gasification the only clean and proven way forward of using Coal as a fuel.
- energy demands and commodity consumptions worldwide are on the rise.
- correcting our Balance of Payments.

We uphold the philosophy  
of an

## “ATMANIRBHAR BHARAT”

Fixed Bed Gasifiers all variants are manufactured 100% in India at our state-of-the-art facility.

Fluidized Bed Gasifiers- 80-90% project supply is from India. Only critical and proprietary parts are being imported.

A banner for the "AatmaNirbharBharat Abhiyan" (Self-Reliant India Movement). The title is in orange and green. Below it are five icons representing Economy, Infrastructure, System, Demography, and Demand. At the bottom, it says "Transformingindia.MyGov.in". On the right, there is a portrait of Prime Minister Narendra Modi with his arms crossed, and the "myGov" logo in the top right corner.

**AatmaNirbharBharat Abhiyan**

ECONOMY    INFRASTRUCTURE    SYSTEM    DEMOGRAPHY    DEMAND

Transformingindia.MyGov.in

# REACH OUT TO US



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