

AR Challenges

Zero Discharge

EFW (energy from Waste)

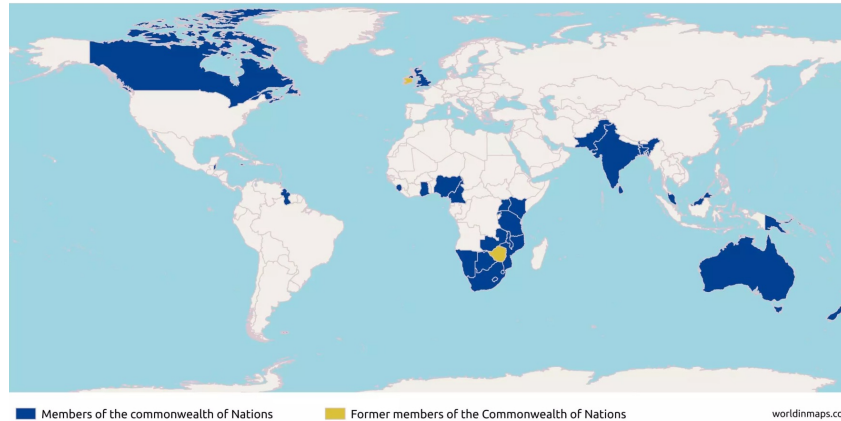
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The Challenge



India is responsible to provide Climate Impact Solutions for all member countries (54) in the Commonwealth, including UK, Canada, Australia



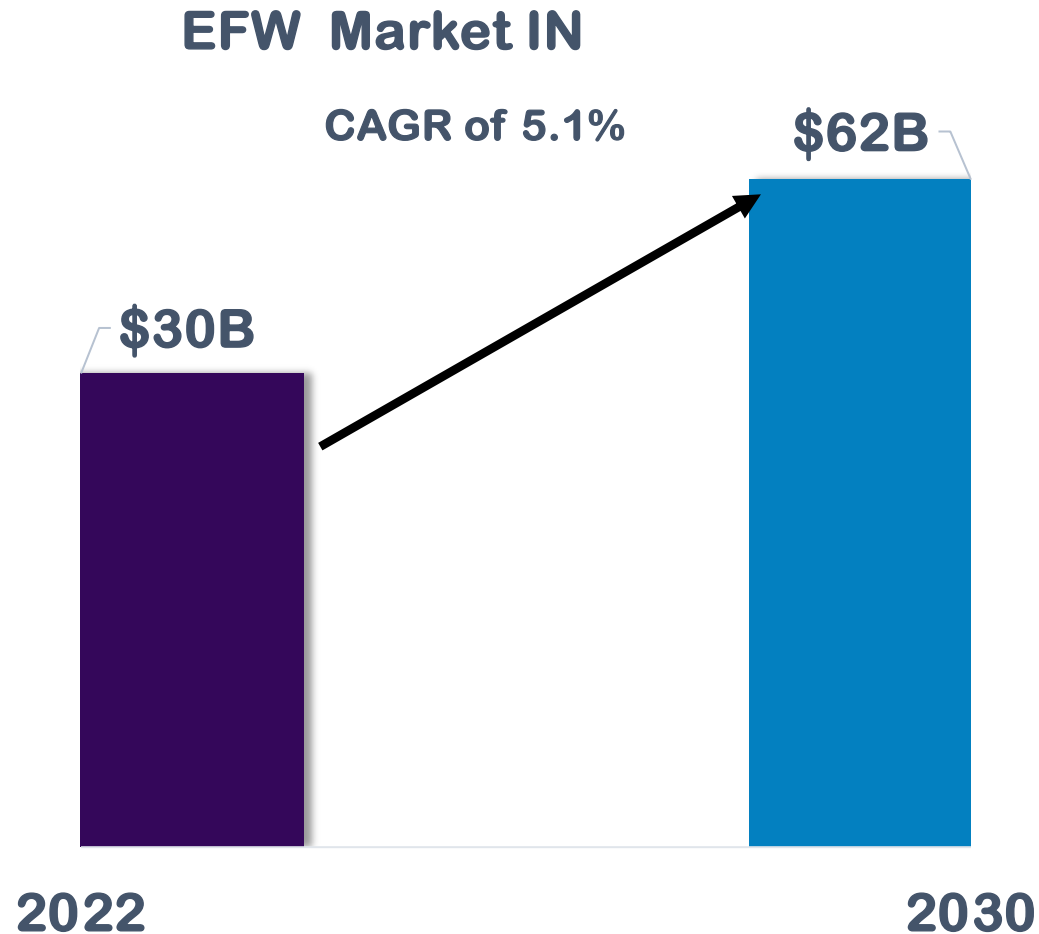
80% of power generation is currently produced from coal

>1K

Large cities in India,
Each large city produces > 500MT/day
of unsorted waste

90% Of the collected waste is
being disposed to landfill

The Market



The Solution



EFW generation revolution - Hybrid Biomass Thermal Power Generation

- Treatment of all waste type
- 360° Solution for municipalities
- No need for landfill
- No need for power storage
- Reduces resources consumption and pollution
- Enhances resource security
- Reduces costs and improve competitiveness

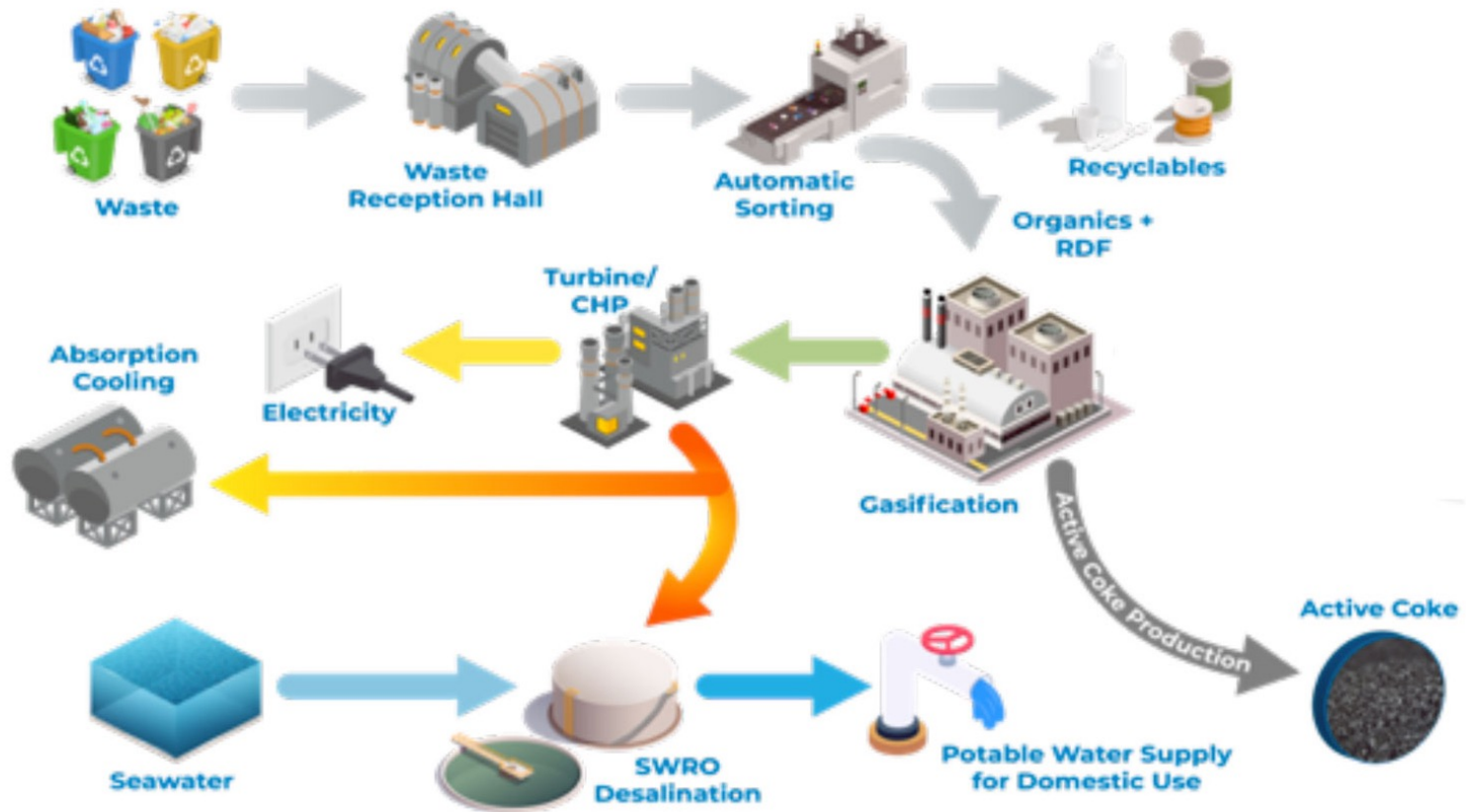


AR Challenges secured the largest order in India, valued at \$12B

The Solution



Unique Hybrid Biomass Thermal Power Generation



500 MT/day MSW → 20 MW/hour + 30 MT Activate Carbon

Key advantages



Innovation



**Efficient
storage
solution**

Tripling income



**ZERO WASTE
to landfills -
Circular Economy**



**RDF to HOT AIR,
Not Syngas**

Performance



**Exceptional
Energy Efficiency
(> 42%)**



**Distributed
Clean energy
supply to any
Point Of Use**

Price



**Competitive
Waste Processing
fees**

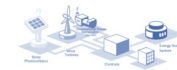


**Competitive
Price per KW/h**

Service



**All waste
Processing (Excl.
Hazardous & C&D)**



**Full support of
Microgrid
Electrical Supply**

System Applications



Hotels



Communities



Hospitals



**Energy Consuming
Industries**



Railways



Seaports



Airports

The Competition



AR Challenges

fortum

HITACHI

Zero Waste



All Waste Processing



Hot Air Gasification



Distributed Power (POU)



True Circular Economy



**Low / NO Tipping Fees
(KW/h pricing < \$0.13)**



*** Incineration**

Business Model



**Competitive
energy
pricing
(\$0.1 -
\$0.13) per
KW/h**



**UN Impact
Fund
recognition
for 2.5 times
Carbon
Credits for
each MW
produced**

**Bio-Char
into medical
grade
activated
carbon**



BOO-BOT for large infrastructure systems

- PPA (Power Purchase Agreement) for 15-25 years
- Partnership with EPC to provide services
- Exit within 4-5 year of operation, to be purchased by the utilities company

Turnkey with annual support

- sold to the smaller customers and are usually financed by them
- Partnership with EPC to provide services

Timeline



2024

2025

2026

**Large Power
Generation
Process
500 MT/day waste
Total app. Project
values over \$10B**

**Pilot in Saharanpur
First city out if 25 won in UP, India
RBS is ready to finance the project via a large EPC.
The SPV needs \$53M to install the system**

**Commercial Sites
Additional 5 cities**

**Small Power
Generation
30MT/day waste
Total project valued
\$15B**

**Commercial Site
BHU hospital
(300 hospitals in the
chain)
\$15M project financing**

**Commercial Sites
Additional 10 hospitals**

**Commercial Sites
Additional 10 hospitals**

Seed Round – Raising \$5M



Raising \$5M in SAFE for corporate development

Use of Funds:

- Setting up operations in India (Daughter company)
- Initial engineering and integration design work
- EPC support
- BD in India, Indonesia and Philippines
- Finalizing the activated carbon R&D
- Verifying all supplier's equipment adaptations
- Marketing

Projected income by 2026:

1. Saharanpur: Annual Income \$35M, Gross profit - \$25M
2. BHU hospital: Annual Income \$5.5M, Gross profit \$4M



The Team



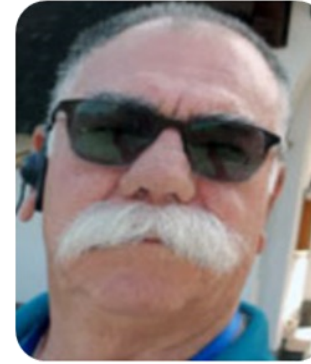
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