

Disadvantages

- Low energy efficiency
- PM2.5
- Toxins, SO_x, NO_x
- Transportation issue and cost

Advantages

- Mobile on-site treatment
- High effeciency
- Automatic waste sizing and feeding
- Scalability and portability
- **Environmental friendly**



Electricity

Our microwave pyrolysis/gasification technology development

Gasirication

Highlights

- Fast heating
- Easily-controlling
- Using a negligible amound of carrier gas
- **Energy-saving**
- Nearly 100% chemical recyclables
- Mature R&D plans



Mobile downdraft

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Using SiC bed

Improving heating rate



Further improving system design





Outcome of the Project

- An advanced microwave gasification technology will be developed for cost effectively and safely converting medical wastes to electricity
- Potential economic, environmental and ecological impacts of the proposed strategy will be evaluated
- The research findings will be used for seeking industrial partnerships and external funds for further R & D efforts