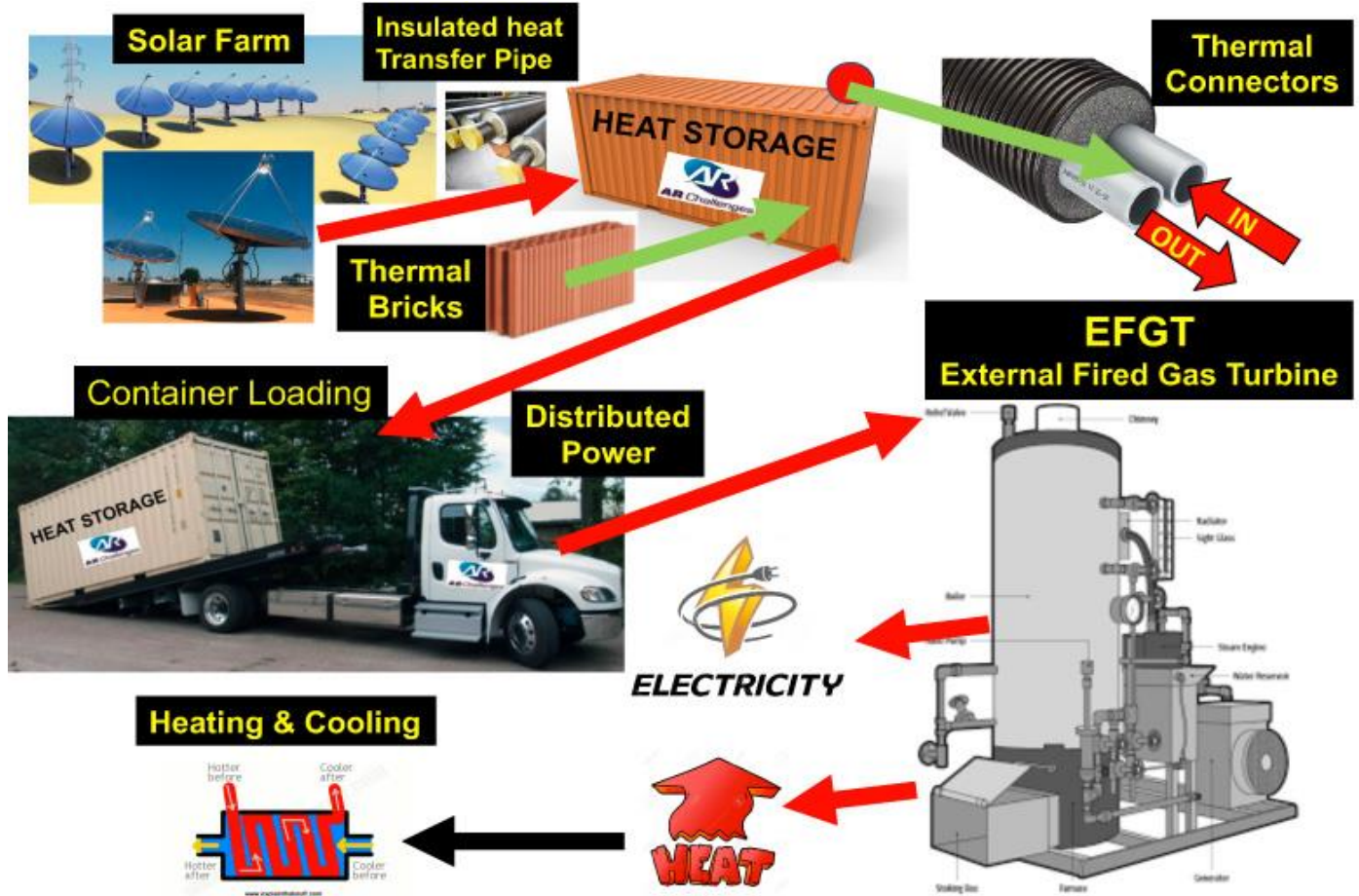


## AR-EIL W2E Advantages



## Foreword

AR-EIL is NOT a system manufacturer but merely a system integrator. The main difference between the two is BIC!! (Best In Class). While manufacturers do their best to produce their systems they CANNOT supply the best modules for each task. The integrator approach provides a design that accommodates the best and latest technologies into a superb system. Furthermore, the vast experience enables us to make significant changes to the supplied products that provides for the BIC approach. These trade secrets are NOT obvious and are next to impossible to copy or produce. ALL our suppliers are bound to our non-disclosure agreements and thus the unique products and systems are fully protected against the competition.

## Market and systems analysis

The general W2E market consists of several solutions:

- **Incineration** – Provides high temperature burning of the waste producing steam for electrical generation. Advantages: Low CAPEX and OPEX, ability to produce power via steam generators and CHP. Disadvantages – NO ZERO WASTE solution, Ash is toxic and dangerous to landfill, (needs excessive cleaning). Needs high grade gas filtration and is dangerous when filter is down. (Europe and USA have stopped using this solution)



- **Plasma Gasification** – Provides higher temperature and more steam than incineration. Advantages: Low CAPEX and OPEX, ability to produce power via steam generators and CHP. Disadvantages – NO ZERO WASTE solution, Ash is toxic and dangerous to landfill, (needs excessive cleaning). Needs high grade gas filtration and is dangerous when filter is down. (Europe and USA have stopped using this solution)
- **Different types of Gasification** – This is a growing portion of the W2E market. There are several types of gasification NONE of which provides ZERO WASTE capability!! Furthermore, there is NO system that can utilize the Organic fractions of the MSW and therefore has a major problem at the landfills.
- **AR-EIL W2E system** – The ONLY system that eliminates the use of landfills, provides clean gasification with superb Syngas quality. The ability to provide electricity heat and water purification. The ONLY system to provide distributed power directly to the consumer on and off grid.

## **The AR-EIL System advantages**

1. ZERO- Waste – A unique sorting system with pallet production to supply to the specific gasification unit.
2. RDF – Special RDF that can be supplied for both Caloric and gasification applications. The RDF content is not linked directly to the MSW content.
3. Down Draft high temperature gasification for TAR free high Temp (1,200c) Air.(Patent Pending)
4. Hot air can be used directly in EFGT turbines (Patent Pending).
5. Hot Air replaces NG and LPG for heating applications.
6. Unique mobile heat storage for power distribution.
7. The system can be applied to both electricity and water purification.

***The AR-EIL system is based on proven technologies and certified suppliers.***

