

# UK : INTEGRATED WASTE, WATER + ENERGY SOLUTION

## KEY TO ARROW COLOUR CODES

	COMMERCIAL / BUSINESS WASTE DERIVED BIOMASS FUEL	<b>tpa</b>	TONNES PER ANNUM
	MUNICIPAL REFUSE DERIVED BIOMASS FUEL	<b>tpd</b>	TONNES PER DAY
	TREATED WATER FOR RE-USE	<b>CH4</b>	METHANE (HARMFUL GREENHOUSE GAS)
	RECYCLED MATERIAL (PLASTICS, METALS, GLASS ETC.)		

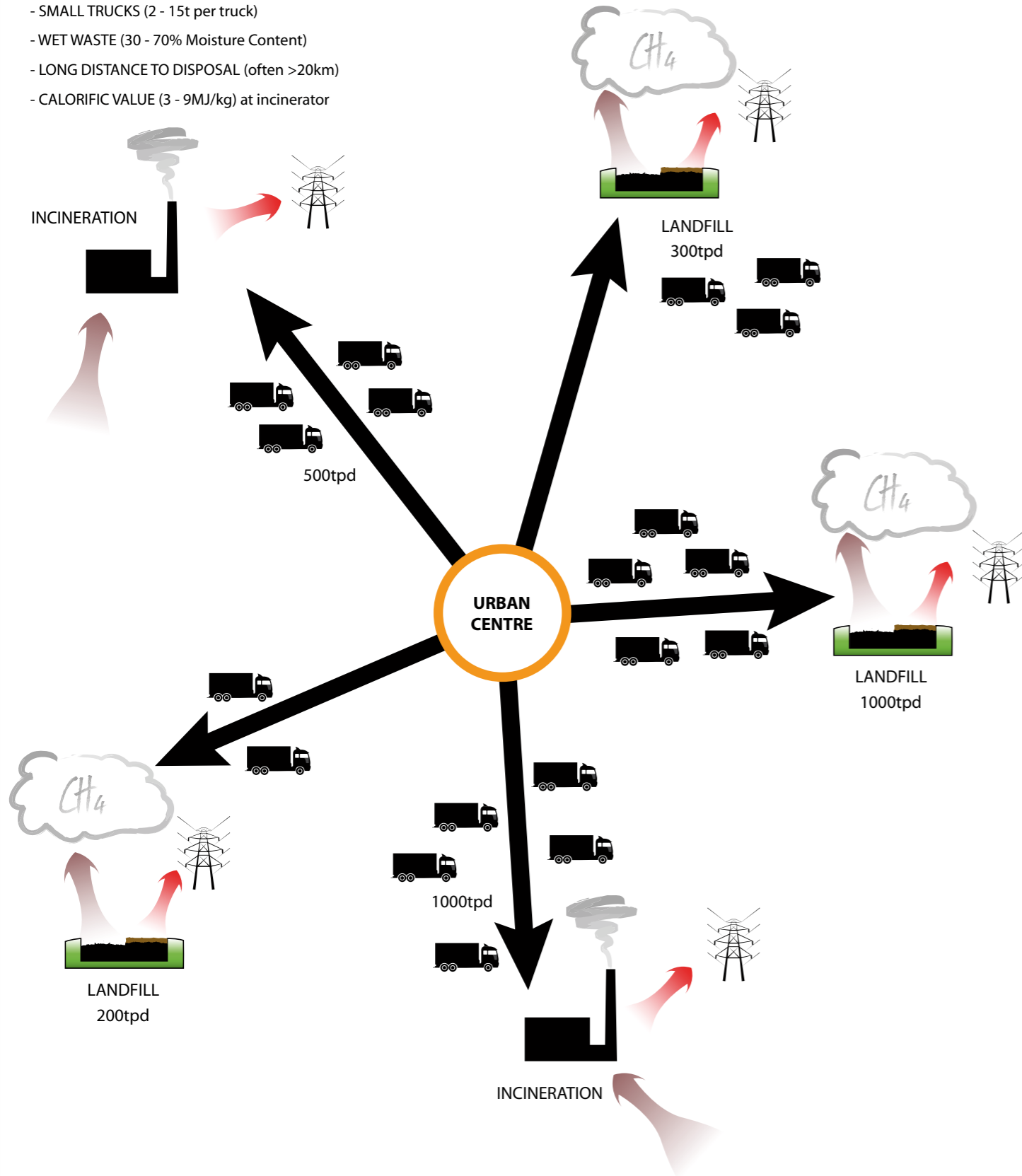


## EXAMPLE OF CURRENT SITUATION:

1,000,000 tpa representing approximately 2 to 4 million people population

### TYPICAL FEATURES:

- SMALL TRUCKS (2 - 15t per truck)
- WET WASTE (30 - 70% Moisture Content)
- LONG DISTANCE TO DISPOSAL (often >20km)
- CALORIFIC VALUE (3 - 9MJ/kg) at incinerator

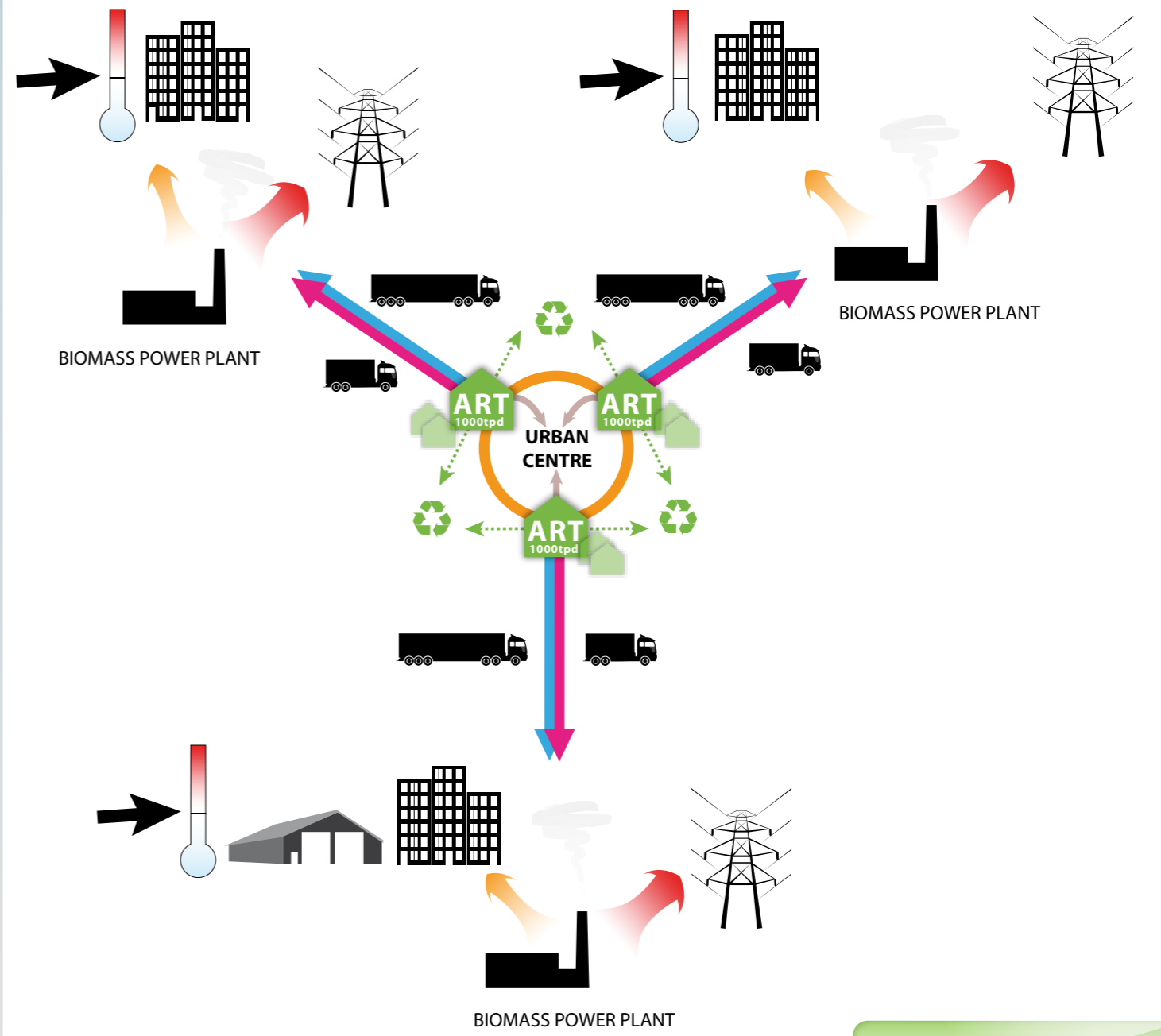


## ART BIOCENTRE PROPOSAL:

Process the waste to reclaim recycled material and produce a valuable dry biomass fuel

### PROVEN FEATURES:

- DRY, REFINED FUELS (10 - 20% Moisture Content)
- BIOMASS FUEL FOCUS WITH ADDITIONAL RECYCLING USING SAFE PROCESS
- LESS TRANSPORT + LARGER LOADS IN BULK TRUCKS (20 - 25t per truck)
- HIGHER CALORIFIC VALUE (13 - 19MJ/kg) BIO-FUELS
- RE-USE OF SANITISED WASTE WATER
- STERILIZED BIOMASS FOR USE AS FUEL AND/OR LAND USE AS A SOIL IMPROVER
- OPTION TO USE AS COAL REPLACEMENT FUEL IN POWER STATIONS & CEMENT KILNS (+CARBON CREDITS)



COMMERCIAL IN CONFIDENCE

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