



- **QMRE Q & A**

- **Q. DOES THE MACHINE REQUIRE PLANNING APPROVAL?**

- **A. IN 70% OF CASES OUR CONSULTANT ADVICE IS THAT IT WILL REQUIRE PLANNING APPROVAL AND SHOULD TAKE A MAXIMUM OF 8 WEEKS TO RECEIVE SAME**

- **Q. WHAT OTHER APPROVALS ARE REQUIRED?**

- **A. QMRE WILL ATTEND TO ANY LICENCE ISSUES**

- **Q. HOW IS THE MACHINE DELIVERED?**

- **A. IT IS DELIVERED IN A CONTAINER AND LIFTED INTO PLACE ON SITE, THE GROUND WHERE IT IS TO BE SITED SHOULD BE LEVEL**

- **Q. DOES THE MACHINE REQUIRE AN ELECTRIC SUPPLY?**

- **A. YES IT REQUIRES A 3 PHASE 60-amp SUPPLY**

- **Q. WHY DOES IT NEED AN ELECTRIC SUPPLY?**

- **A. TO INTIALLY FIRE IT UP WHILST THE PROCESS IS STARTED**

- **Q. DOES THE MACHINE REQUIRE A WATER SUPPLY?**
- **A. NO, NO WATER SUPPLY IS REQUIRED**
  
- **Q. WHICH PLASTICS CAN THE MACHINE TAKE?**
- **A. THE MACHINE CAN TAKE PE, PP, PS. ALL OF THESE PLASTICS ARE AVAILABLE IN RETAIL PARK SERVICE YARDS AND SUPERMARKET YARDS**
  
- **Q. DOES THE PLASTIC NEED TO BE CLEANED?**
- **A. NO, CONTAMINATION SHOULD BE LOWER THAN 5% FOR BEST EFFICIENCY. FEED STOCK SHOULD NOT BE WET BECAUSE THIS LOWERS THE EFFICIENCY CONSIDERABLY (AS WATER IS BEING EVAPORATED).**
  
- **Q. DOES THE MACHINE HAVE ANY EMISSIONS?**
- **A. – NO, NOT IF THE EXHAUST GAS PURIFICATION SYSTEM IS SPECIFIED**
  
- **Q. HOW DOES THE MACHINE CONVERT THE PLASTIC INTO ELECTRICITY?**
- **A. THE MACHINE CAN BE FITTED WITH A DUAL GENERATOR THAT CONVERTS THE GAS AND OIL INTO ELECTRICITY**

- **Q. HOW IS THE PLASTIC LOADED?**
- **A. THE PLASTIC IS LOADED INTO A SIZE REDUCING UNIT THAT REDUCES THE PLASTIC INTO 30mm SIZED-PIECES**
  
- **Q. HOW IS THE PLASTIC STORED?**
- **A. THE PLASTIC IS STORED IN A SILO. THE SILO CAN ACCOMMODATE ONE TONNE OF PLASTIC WHICH IS AUTOMATICALLY FED INTO THE REACTOR, THE PLASTIC WILL NEED TO BE TOPPED UP EVERY DAY**
  
- **Q. HOW IS THE OIL PRODUCED FROM THE PLASTIC?**
- **A. THE PLASTIC IS FED INTO A REACTOR WHICH IS DISINTEGRATED IN A SINGLE PROCESS, DISTILLED AND CONVERTED INTO FUEL OR IF REQUIRED TO ELECTRICITY**
  
- **Q. HOW IS THE MACHINE MONITORED?**
- **A. THE MACHINE HAS A SOPHISTICATED SIEMENS MONITORING SYSTEM THAT IS MONITORED REMOTELY IN GERMANY VIA A PHONE LINE OF 4G SIM - THIS MONITORS ALL THE INFORMATION PRODUCED BY THE MACHINE**
  
- **Q. WHAT CAN THE ELECTRICITY BE USED FOR?**
- **A. THE ELECTRICITY PRODUCED IS 3.5 KWH FROM 1 LITRE OF OIL - IT CAN BE USED TO CONTRIBUTE TO THE LANDLORD'S SUPPLY /GOODS YARD SUPPLY TO RUN LIGHTING AND SMALL POWER UNITS**

- **Q. WHAT HAPPENS TO THE OIL?**
- **A. THE OIL IS STORED IN A BUNDED TANK ON SITE AND IS EMPTIED BY OUR OIL SHIPPER WHO HAS A NATIONWIDE CONTRACT**
  
- **Q. ARE THERE ANY OTHER BI-PRODUCTS?**
- **A. YES THERE IS A SMALL AMOUNT OF CARBON ASH WHICH IS COLLECTED AND CAN GO INTO TARMAC/ASPHALT**
  
- **Q. WHAT CAN THE OIL BE USED FOR?**
- **THE OIL IS USED AS A FUEL TO RUN HEAVY SHIPS AND CAN BE BLENDED FURTHER INTO DIESEL**
  
- **Q. STORAGE**
- **A. Under the government oil storage regulations for business the storage of oil on site will be exempt**
- **'At a premises for onward distribution of oil, rather than a premises which sells oil directly to end users'**

- **QMRE – ADDITIONAL INFORMATION**

QMRE have signed an agreement with a German manufacturer – Biofabrik – to distribute their plastic recycling plant into the UK and Eire on an exclusive basis.

- **Our research and development activities has unearthed a solution that utilises pyrolysis technology but enables us to bring forward our plans and introduce plastic waste recycling into fuel at an earlier stage – when supermarkets and manufacturers dispose of their plastic waste material before the goods enter the consumer arena.**
- **These machines are portable and are delivered onto site on a container. We envisage they would be used by retail parks, supermarkets, industrial estates, food processing businesses, plastic manufacturing companies, public events organisers and council plastic waste stations. Indeed, any organisation that seeks to reduce its carbon footprint by reducing the number of vehicles clearing their plastic waste will be interested in this plant.**
- **The compact, fully-automated Biofabrik WASTX Plastic P-1000 unit converts up to 1000kgs of plastic waste into 1000 litres per day of usable raw materials or fuel oil. Plastic waste is first shredded with the material being drawn into a processor that by pyrolysis shortens the long hydrocarbon chains creating an oil vapour which flows into the condensation stage. Waxy components can be re-melted at low temperatures.**

- **A dual fuel generator can also be installed to reduce gas emissions to zero by changing the gas into electricity that could run the service yard lights in supermarkets and retail parks**
- **The products are stored in heatable tanks for use locally or remotely.**
- **Without further refining the oil produced can be used to run one of the 80,000 heavy duty marine ships in the world, that consume one billion tonnes of marine diesel. Current value of this oil is 55p per litre.**
- **Further machines available from Biofabrik include**
  - **Plastic sorters and cleaners**
  - **Refining machines back to diesel**
- **The oil can also be refined further back into a diesel which will have a higher calorific value and a lower sulphur level than normal fossil fuels and will also be a drop-in additive for bio-diesel**
- **It is possible our oil could be running in local authority dustcarts.**
- **It is our intention to bring to market at least 20 machines in year one.**



**tim@qmre.ltd**









