QC Recycle Co., Ltd. – Solid Refuse Fuel (SRF) Biomass Factory

COMPANY PROFILE

Our company recycle industrial waste from shipping containers wood pallets, furniture waste, wooden construction waste and waste wood. Most of these pallets are intended to be used only once, then discarded, since pallets tend to be full of difficult-to-remove nails, we also reclaim the nails used to manufacture these shipping container pallets, these pallets end up in landfills as waste. We help the environment by providing a service to the community, by grinding up REFUSE (waste material that people throw away) producing sustainable combustible energy that is used as biomass raw materials for power plants and boilers.

Our major source of raw material includes waste from shipping containers, wood pallets, furniture waste, wooden construction waste and waste wood.

PROUD MOMENT: Helping Villagers from Hunger during Covid-19

During COVID-19 villagers were out of Job and even Now; we are proud to help, save villagers from hunger by offering them to deliver via tricycles(photo page 2); combustible refuse, wood cuttings, waste pallets & boards, furniture waste to our factory, so that they put food on the table daily for their family.

1) Our company has established an innovative business model focused on recycling industrial waste into energy, specifically through the **production of biomass from woody Solid Refuse (unwanted/waste material that people throw away) Fuel (SRF)**. We are pioneers in supplying sustainable biomass fuel as alternative fuel to power plants and biomass boilers. Notable, clients such as SCG, Double A/NPS and Industrial Boilers, utilise our Solid Refuse Fuel (SRF) as biomass fuel.

2) This process contributes significantly to environmental protection by reducing or eliminating the disposal of refuse(unwanted materials that people throw away) in landfills and garbage sites.

3) We offer services that enable local communities to generate additional income from the sale of waste wood that would otherwise be discarded or burned, thereby enhancing local livelihoods and improving standards of living around our facilities.

4) Our commitment to recycling, waste reduction, and reuse energy-from-waste initiatives, helps promotes greater adoption of cleaner alternative raw material in the production of energy in Thailand.

5) By supporting continuous and sustainable renewable raw materials for biomass power plants, we ensure a consistent supply of low-cost alternative energy. Further reducing using toxic coal as fuel, aids in reducing environmental pollution.

6) Energy-from-waste facilities should be integrated into both industrial and residential communities, maximising the utilisation of waste heat and displacing fossil fuels through the supply of steam to industrial customers. Looking ahead, we anticipate increased public acceptance of community-scale waste-to-energy plants, which minimise site traffic and can operate alongside recycling centres to provide efficient local solutions for non-recyclable waste while delivering renewable, low-carbon energy. These facilities must leverage their full potential to optimise efficiency and lower carbon emissions.

7) Our primary target market includes power plants and biomass boilers; current sales focused to SCG, Double A/NPS, CP FOODS and Industrial Boilers.

QC Recycle Co., Ltd. – Solid Refuse Fuel (SRF) Biomass Factory



Why Biomass? Thailand biomass can help Asia decarbonize.

Biomass is organic material derived from plants or animals which can be burned from energy. Wood, plant fibre, agricultural waste, animal manure and industrial waste can all be used as sources of biomass. It's a renewable resource which also has lower greenhouse gas emissions across its lifecycle as the plants originally used carbon dioxide for photosynthesis while growing. This means their emissions are not taxed, giving biomass an advantage over fossil fuels subject to carbon taxation or emissions trading schemes. Biomass can be used in place of coal for electricity, heat and steam generation. The world needs to produce fewer greenhouse gases and Asian governments are increasingly looking at ways to price carbon. Thai biomass can help the region decarbonize.

Thailand is emerging as a major biomass supplier and user. Carbon prices and taxes are becoming more widespread. It should and will benefit from the growth of carbon taxation and emissions trading in Asia, 80% of all human carbon dioxide emissions come from burning fossil fuels.

QC Recycle Co., Ltd. – Solid Refuse Fuel (SRF) Biomass Factory

Governments around the world are making commitments to reduce greenhouse gas emissions; carbon taxes are one of the ways they will achieve this. In Europe, carbon dioxide emissions cost around EUR 90 per tonne under the Emissions Trading Scheme. Countries in Asia are also catching up.

Singapore has a cap-and-trade scheme for carbon dioxide emissions, which is applied to all facilities above 25k tonnes of carbon dioxide equivalent. The price today is SGD 5 per tonne of carbon dioxide, rising to SGD 50-80 per tonne by 2050.

Indonesia has recently launched a new emissions trading scheme for the power sector. At first this covers large coal-fired power plants, but smaller plants and oil or gas plants will be included in future phases. Thailand's biomass sector therefore should benefit as increasing greenhouse gas emitters in Asia begin to pay for their emissions and think further about decarbonizing.

*Note – Why Biomass? excerpts are taken from an article written by: **Kanjanaporn Dechwan -** Kanjanaporn (Atom), she graduated with a degree of Agriculture from Thailand (previously explored Food science and Technology & Agriculture for 6 months as an intern in Japan).