

**Issues such as production resources, equipment power supply, civil engineering and construction that need to be considered when opening a cassava starch factory**

The opening of a cassava starch processing plant is a project that examines the overall strength. The purchase and sale of land, lease, plant construction, employment, and cost control require detailed planning and layout.

In addition to the early hardware strength equipment: basic land, capital, equipment, and these few things are also very important.



### 1. Production raw material resources

The main condition for the processing and production of cassava starch is to have sufficient and abundant raw material resources. The location of the starch factory needs to be located far away from urban residents' gathering areas and built on open and empty high ground.



At the same time, it is necessary to determine whether there is a raw material supply area around it, whether it is a self-built sweet potato planting base, or a large number of farmers' cassava stocks, whether it can meet the expected input and output of the starch processing plant, and ensure the rational and effective use of starch processing equipment. In the meantime, it is also necessary to consider issues such as transportation cost and raw material damage rate.

## 2. Water resources for starch production

In the production and processing process of cassava starch, especially the raw material cleaning and separation section, a large amount of water is required (the water in some links can be reused).



This is also a problem to be considered when selecting a site for a starch

processing plant. There must be a complete waterway and electrical circuit supply nearby to ensure the normal operation of the starch processing plant.

### 3. Power supply of starch equipment

The power supply problem of starch equipment is also due to the need to control production costs. Most starch processing equipment needs a motor and an electric pump to drive operation when in use to ensure sufficient power supply.

However, in addition to electricity, there are other energy supply methods, such as diesel, natural gas, biomass, etc. The input costs and maintenance costs of these energy supply methods are high or low. Therefore, users also need to follow the city policy and the scale of the starch factory. , Energy prices to choose what suits you.

Cost analysis of several different energy supply methods						
boiler type	Electric steam boiler	Fuel steam boiler	Gas steam boiler	Coal-fired steam boiler	Biomass steam generator	Electromagnetic hot blast stove
fuel	Electricity	Diesel	natural gas	Coal	Biomass particles	Electricity
Calorific value	860kcal/kw	10000kcal/kg	8000kcal/m <sup>3</sup>	5500kcal/kg	3600kcal/kg	860kcal/kg
Fuel price	0.6yuan/kw	8yuan/kg	3.41yuan/m <sup>3</sup>	0.86yuan/kg	1.0yuan/kg	0.6yuan/kg
Boiler thermal efficiency	95%	95%	95%	70%	72%	97%
Energy consumption per ton of steam	714.3kw	70.5kg	88m <sup>3</sup>	153kg	228.3kg	719.2kw
Steam cost per ton	440	564	300	131.50	228.3	431.5
Comprehensive comparison	High price, Easy to operate, boiler required	High price, Energy shortage, Easy to operate, Boiler required	High price, Energy shortage, Pipeline account opening fee is expensive, Easy to operate, Boiler required	Low price, Energy shortage, serious pollution, Government ban	Lower price, low efficiency, Need to be equipped with dust collector, High environmental treatment cost	High price, Easy to operate

### 4. Civil Engineering Equipment

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Civil engineering facilities mainly refer to processing workshops, workshops, etc. This item needs to be planned and designed in advance based on the area of the production workshop, the scale of starch processing, and the configuration of starch processing equipment.

According to the analysis of Goodway's years of experience in contracting customer factory design, such design services for plant planning, production line layout, equipment layout, installation and wiring will be provided free of charge by experienced equipment factories.



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