

Summary:

Western ecological industrial company



Project essence

Launch of a company for the production of a finished product (carbon black) by processing of hydrocarbon feedstock (waste of the oil refining industry as rubber, plastic and other oily waste).

In fact along with the production it's planned to create a recycling company, which utilizes oily waste and solid waste, receives profit from this activity and provides rubber products, metallurgical (foundry), paint and varnish industries with valuable raw materials.

Product

Carbon black is used as a reinforcing component in the production of rubbers and plastics.

It is mainly used in the tire industry (adds high wear resistance to rubber, increases tensile strength and provides low hysteresis).

It is widely used for the manufacturing of high quality tread rubbers for all types of cars and tread blanks for retreading, agricultural machines, conveyor belts.

Also carbon black is necessary for the manufacturing of molding products used in difficult conditions, sheaths for cables, rubber seals, frame and breaker rubbers, the manufacturing of chambers, profiling products, as a retardant for the "aging" of plastics, as a component that gives plastics conductive properties.

In addition carbon black is used in the production of a number of alloys, specialty papers, printer ribbons, as a black pigment in the paint and varnish, polymer and electrochemical industries, as well as in the manufacturing of electrodes and galvanic cells.



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Market

It is planned to start production of carbon black of mark P803 - this is a popular mark, but in Ukraine nowadays it is not produced by the only producer of carbon black - the Kremenchug Carbon Black Plant JSC (KCBP).

KCBP produces 100 thousand tons of carbon per year and exports almost the entire production to the EU countries. At the domestic market this company almost does not sell its products, working on pre-order and prepayment.

According to information from open sources of the Ukrainian Custom, the total export of carbon black in 2020 amounted to USD 41.05 million, import - USD 2.57 million (this number does not indicate the capacity of the carbon black market in Ukraine, but only reflects the import of several brands).

Competitors

Producers - Kremenchug carbon black plant (does not produce P803).

Traders-importers - TRIBO LLC (clients are waiting for the shipment in the Russian Federation taking into account the advance payment from the Client, after which the trader places an order at the manufacturer's plant).

There are no indirect competitors or substitute products.

In general competition is weak or absent, since we are talking about the production and sale of carbon black mark P803, which is not produced in Ukraine, and Russian enterprises are under sanctions.



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Company

Western Ecological Industrial Company LLC is registered under No. 1421102 0000 000461 dated 20.12.2017. in the Pechersk District State Administration in Kiev at the address: 03150, Kiev, st. Predslavinska, 34-b.

Legal entity identification code is 41820363.

Main activities:

- *Production of basic inorganic chemicals*
- *Wholesale of solid, liquid, gaseous fuels and similar products*
- *Wholesale of chemical products*
- *Treatment and disposal of hazardous waste*
- *Other waste management activities.*

The company has a Certificate of Product Conformity, registered under No. UA1/049/0152-19 dated 18.10.2019.

Assets

Industrial production plant:

- *Cyclone reactor (furnace) - reaction zone, obtaining of carbon black.*
- *Air cooler - cooling of the vapor-gas mixture.*
- *Cyclone - extraction of 90% of carbon black.*
- *Bag filter - removal of 10% of carbon black.*
- *Temperature sensors and temperature control alarms in various units of the installation.*
- *Capacity 25 cbm. - raw material capacity.*



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- *Two intermediate raw material receivers - uninterrupted supply of raw materials to the cyclone reactor.*
 - *Pumping station - supply of raw materials to intermediate receivers from the feedstock tank.*
 - *Compressor station - providing the necessary pressure for the feedstock nozzles.*
 - *Feedstock nozzles - feeding into the cyclone reactor.*
 - *Burner - maintaining the required temperature in the cyclone reactor.*
 - *Smoke exhauster.*

Team

- **Technologist** - Timrov Anatoly, 15 years at a similar enterprise - Stakhanov plant of carbon black, chief technologist of the plant.
- **Production manager** - Anatoly Antonov, has an experience at the coke-chemical production in Zaporizhzhia (head of the coke oven battery cooling shop at the Zaporizhzhia coke-chemical Plant, Metinvest Group of companies).
- **Chemist and laboratory assistant** - Prosyaniuk Olexandr, head of the department, professor of organic chemistry, Dnipro University of chemical technologies.
- **Laboratory assistant** - Yulia Chertikhina - candidate of chemical sciences, Dnipro University of chemical technologies.



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Expertise

Practical experience is 48 months in the production of carbon black. The quality certificate and the conclusion of the SES for the manufactured products were received.

The entire technological chain of production has been worked out, including the utilization one - the pyrolysis unit has been operating for 15 years. 22 state inspections have been passed.

Positive recommendations from contractors - Zaporizhzhia plant, Bakhmutsk non-ferrous metals plant, Rezinoplast LLC, Sumy RTI, Bonustrade LLC, etc were received.

It is planned to patent the developed method of carbon black production.

Plan

1. Phased launch of the production and sale of carbon black of the most demanded marks on the domestic market.
2. Achievement of self-sufficiency of the project (conservative scenario) in for 5-6 months.
3. Profit for 18 months work (conservative scenario) - USD 281.7 thousand.
4. Acquisition of additional production equipment, expansion of the product range and sales volume.
5. Launching the utilization of oily waste and solid waste (additional income and a 50-80% reduction in the cost of carbon black).
6. Export of manufactured products and services for the disposal of oily waste for the EU.



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Schedule

Essence	Terms	Amount, USD	Results
Conclusion of preliminary agreements on the sale of products (amount/prices/terms)	Until 15/02/21		Obtaining guarantees on sales amount and sales prices
Launching of an existing production line	Until 04/15/21	33 500	Resumption of production capacities
Purchase and launch of the necessary production equipment	Until 06/15/21	65 000	Delivery, installation, start of production and sales
Purchase of additional production equipment (out of profit)	Out of profit - until 15/07/22	115 000	Expansion of the product range
TOTAL		213,500	

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