Dev Energy

Engineered Carbon

Advanced Carbon Materials for Foundry / Steel / Aluminium / Refractory Industries

www.devenergy.hk

Dev Energy

Who We Are

Dev Energy is a trusted provider of advanced engineered carbon solutions for the Foundry, Steel, Aluminium and Refractory industries. Since 2001, we have been driving operational efficiency and productivity through innovation, technical expertise, and a strong commitment to performance. By strategically integrating key points of the supply chain, we deliver sustainable value, mitigate risk, and ensure reliable and long-term availability of critical raw materials for our clients.

OUR KEY DOMAIN EXPERTISE

- Engineered Carbon
- Coal Gasification
- Fumes Extraction Systems for Induction Furnaces
- Mineral Products
- Scrap Processing
- Bio-Char/Bio-Gas

Dev Energy transacts commodities on a global scale. We are dynamic, responsible, financially sound, experienced and growing. Dev Energy has access to all traded carbon and mineral commodities markets from our main business hubs in Zibo (China), Hong Kong and New Delhi (India).

Mr. Varun Jindal, our MD is renowned in the Steel Industry for his in-depth knowledge and understanding. We have the complete infrastructure to implement all stages of the projects and provide efficient after-sales service to customers.

OUR PARTNERS

萬氏国际 WANSHI INTERNATIONAL

Wanshi International

Through our strategic partnership with Wanshi International we have been able to get in depth of Chinese Mineral markets. Based in Zibo City of Shandong Province, a prime hub of steel industry, they have assisted us to grow and cater to our customer's requirements.

RECARB X HIGH PURITY GRAPHITE

RECARB X©

We have collaborated with renowned brand manufacturing high purity recarburizers to promote and market exclusively to customers in India, Middle East and South East Asia.

Dev Energy

ENGINEERED CARBON

Dev Energy prides itself on being global supplier of physical carbon products. We focus on the sourcing, supply, and trading of carbon raw materials including Calcined Anthracite Coal CAC, Graphitized Petroleum Coke GPC, Semi Coke, Silicon Carbide, and other materials used in the foundry industry. We have strengthened our trading operations through strategic assets, which provide valuable market insights and enable efficient optimization of the supply chain across the regions in which we operate.

COAL GASIFICATION

Dev Energy is a turnkey technology solution provider since last 24 years for Coal Gasification and have undertaken most of India's first projects for Coal Gas usage in Steel, ceramics and glass industries. The key to success is lowering operations cost by replacing the expensive fuels with cheaper abundant coal. Our high-efficiency Clean Coal Technology reduces environmental impact and delivers proven performance.

SCRAP PROCESSING

Dev Energy has developed expertise to design the scrap processing solutions to meet the Steel Melting plant needs in order to create efficiency and optimize cost. We provide the best in industry scrap balers, shredders and shears. Our systems make it easier to manage scrap, reducing waste, lowering costs and providing overall value to the company.

FUMES EXTRACTION

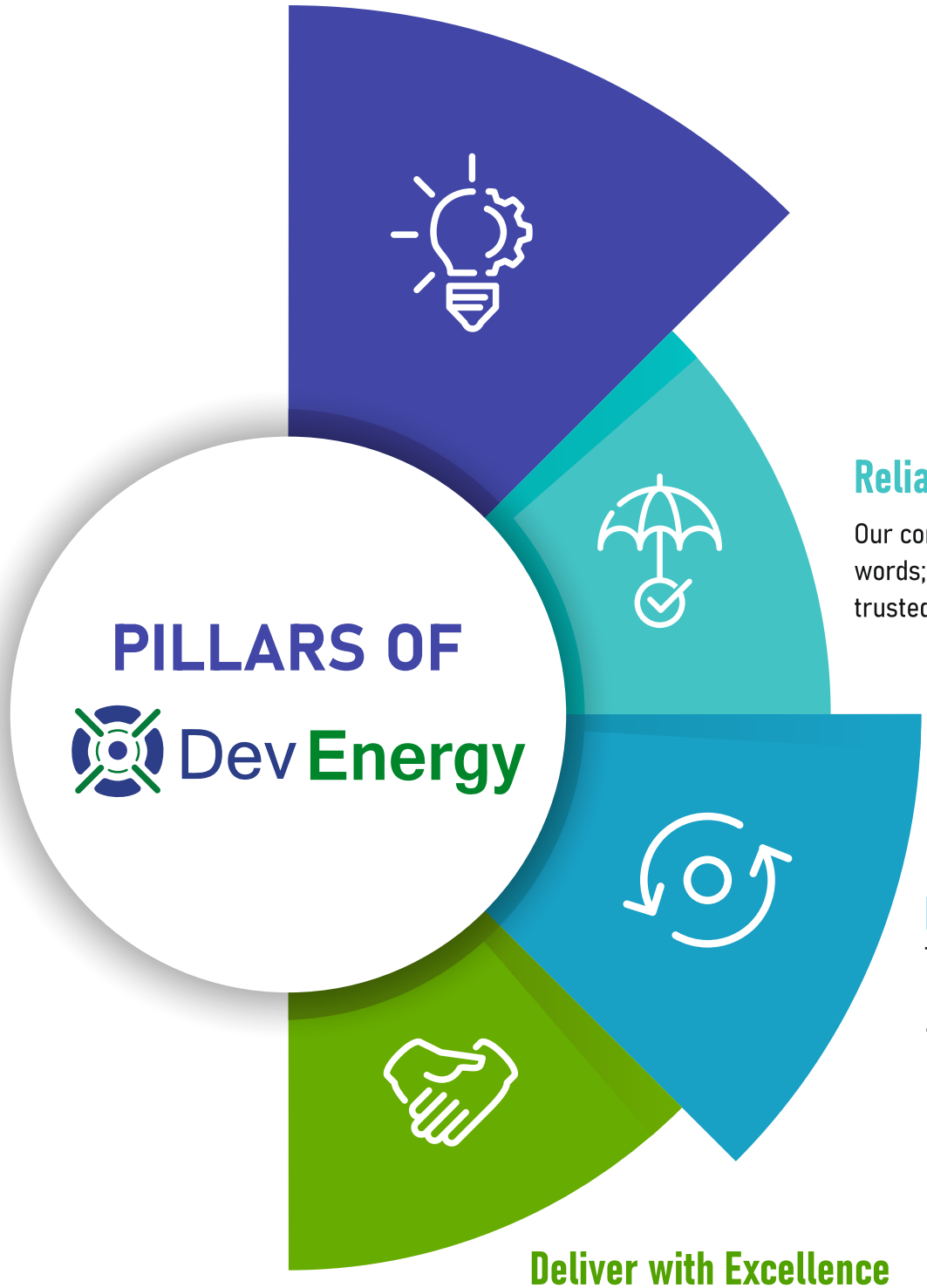
Dev Energy's technology and design customised suction hood and filtration system to capture fumes from induction furnaces has made them compliant to the norms making it possible for steel industry to operate them. Our technology has enabled the user to collect the filtered dust and sell it as raw material for the zinc extraction industry giving a healthy ROI to users.

BIOMASS PYROLYSIS & GASIFICATION

Dev Energy offers advanced process to convert any biomass into biochar with its proprietary solutions that are engineered to produce high-carbon biochar with consistent quality and operational reliability. The Bio Char has high fixed carbon, developed porosity, and structural stability for carbon sequestration, soil enhancement, and industrial applications. Our highly sophisticated Bio Gasification systems can convert any available Biomass into usable Synthetic Natural Gas that can be used as fuel in any kind of furnace. The potential savings are huge and can make any industry green and profitable.

Innovation That Drives Progress

We challenge conventions, create smarter solutions, and drive the industry forward.



Reliability in Action

Our commitments are more than words; we turn promises into trusted outcomes.

Integrity at the Core

Transparency, ethics, and honesty guide every decision and relationship.

Deliver with Excellence

Precision, skill, and consistency define everything we do—ensuring superior results.

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PHYSICAL ACTIVITIES

Our core business is sourcing, supplying and trading carbon raw material and energy products. We enhance our trading activities with strategic assets, providing valuable insights into market places and enabling us to optimize the supply chain.

Our business relies on an in-depth market knowledge and a detailed understanding of the practicalities of sourcing, blending and moving commodities.

SOURCE

We negotiate off-take agreements with producers, refiners and mining companies. We invest in logistics that improve market access for our suppliers.

COLLECT

We store materials at warehouses facilities in china and deliver to customers worldwide as per requirement.

BLEND

We blend physical commodities as per customer required specifications.

QUALITY ANALYSIS

The value of the shipment is determined by a quality and quantity assessment based on lab sampling and inspection.

DELIVER

We operate an efficient, safe and high-quality logistics network. We move commodities by barge, truck, rail, by dry cargo vessel.

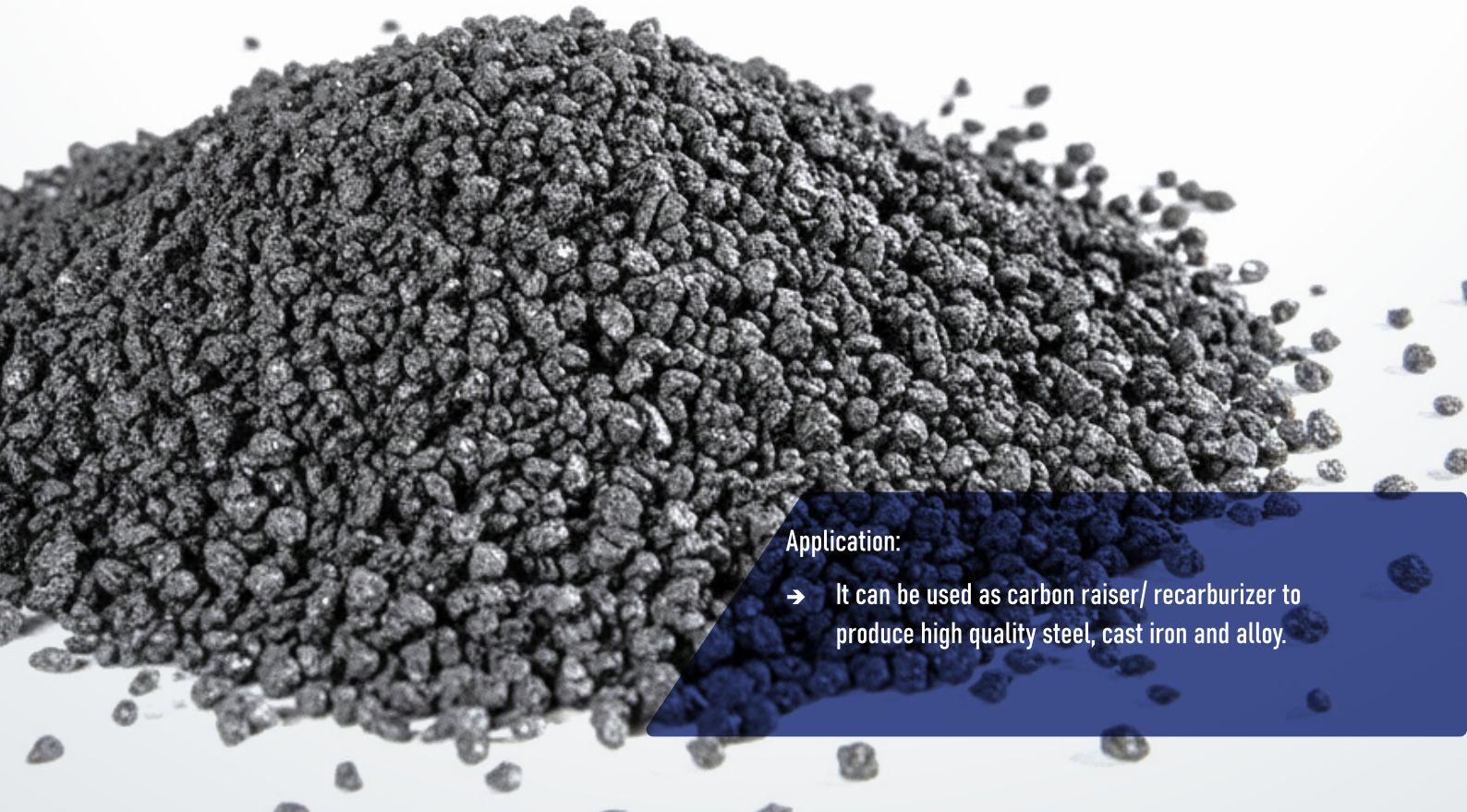
Graphitized Petroleum Coke

GPC

High-purity Graphitized Petroleum Coke is made from high quality petroleum coke under a temperature of 2,500-3,500°c. As a high-purity carbon material, it has characteristics of high fixed carbon content, low sulfur, low ash, low porosity. It can be used as carbon raiser (recarburizer) to produce high quality steel, cast iron and alloy. As a high purity carbon material, it can be used for producing sealing and lubricating materials, electricity brushes, compound brakes and etc. It can also be used in plastic and rubber as an additive.

Specifications

Item	FC	Ash	Sulphur	VM	Moisture	Size (mm)
GPC 01	99% Min	0.5% Max	0.05% Max	0.5% Max	0.5% Max	1-5
GPC 02	98% Min	1.0% Max	0.07% Max	1.0% Max	0.5% Max	0.2 - 1
S-GPC	98% Min	0.8% Max	0.20% Max	0.7% Max	0.5% Max	1 - 5
Graphite Scrap	99% Min	0.5% Max	0.03% Max	0.5% Max	0.5% Max	0.2-1/1-5



Application:

- ➔ It can be used as carbon raiser/ recarburizer to produce high quality steel, cast iron and alloy.

Carbon Raiser

Carbon Raiser, Carbon Additive or Calcined Anthracite Coal is produced in gas fired furnaces under temperature of 700°C~1300°C, obtaining a devolatized and partially graphitized product. The primary application of carbon raiser is in steel mill ladles, melting, holding and even blast furnaces as carbon raisers, carbon additives, recarburizers, carburizer, injection carbon and carbon foaming material. Raw material is procured from Ningxia a source of high quality anthracite, with characteristic of low ash and low sulphur with High carbon content to realise higher carbon recovery.

Carbon Raiser / Additive / Recarburiser

Specifications:

Product	FC	Ash	Sulphur	VM	Moisture	Size (mm)
CAC 95	95% Min	4.0% Max	0.25% Max	1.2% Max	0.5% Max	1-5
CAC 93	93% Min	6.0% Max	0.25% Max	1.3% Max	0.5% Max	1-5
CAC 90	90% Min	8.5% Max	0.25% Max	1.5% Max	0.5% Max	1-5

* Sizing and packaging is available as per customer requirement
* Lower grades of 85% and 88% Carbon content available on request

Application

- It is used primarily as a carbon additive/ carburizer/carbon raiser with low ash and low sulfur with High carbon content to realize higher carbon recovery.

Electrically Calcined Anthracite Coal
Gas Calcined Anthracite Coal

ECA/GCA Coal

Electrically Calcined Anthracite Coal

Manufactured by heating high-grade anthracite coal to temperatures as high as 2000°C in a DC electric calciner

Features:

- Higher carbon content
- Low sulphur and volatile matter
- Low Electrical resistivity

Gas Calcined Anthracite Coal

Manufactured by heating high-grade anthracite coal to temperatures as high as 1300°C in a gas fired furnace

- Higher carbon content
- Low sulphur and volatile matter
- GCA coal is used to blend with ECA coal for cost optimization.

Specifications

PRODUCT	F.C	ASH	V.M	SULPHUR	E.R µΩm	MOISTURE
ECA	92% Min	6.0% Max	0.7% Max	0.25% Max	650	0.5% Max
GCA	93% Min	6.0% Max	1.2% Max	0.25% Max	1350	0.5% Max

Applications (ECA & GCA):

- Carbon electrode paste
- Aluminium & Steel Industries.

Semi Coke

Semi coke can be used as a replacement of metallurgical coke to be used in producing ferroalloys products. Semi-Coke is light black carbon based material having high fixed carbon, high specific resistance, low ash content, low Sulfur and Low phosphorus. Widely used in chemical industry, metallurgical industry to produce Ferroalloys, Ferrosilicon, Ferronickel, Ferrochrome , FeMn, SiMn & Calcium Carbide.

Specifications

Item	F.C.	Ash	S	P	Moisture	V.M.	Size (mm)
Lump	85% Min	8% Max	0.40% Max	0.01% Max	15-18% Max	7% Max	18-35
Nut	85% Min	8% Max	0.40% Max	0.01% Max	15-18% Max	7% Max	8-18
Fine	80% Min	10% Max	0.40% Max	0.01% Max	15-18% Max	10% Max	0-8

Applications:

- Semi coke can be used as a replacement of metallurgical coke to be used in producing Ferroalloys Products.
- Widely used in chemical industry, metallurgical industry to produce Ferroalloys, Ferrosilicon, Ferronickel ,Ferrochrome , FeMn, SiMn & Calcium Carbide.

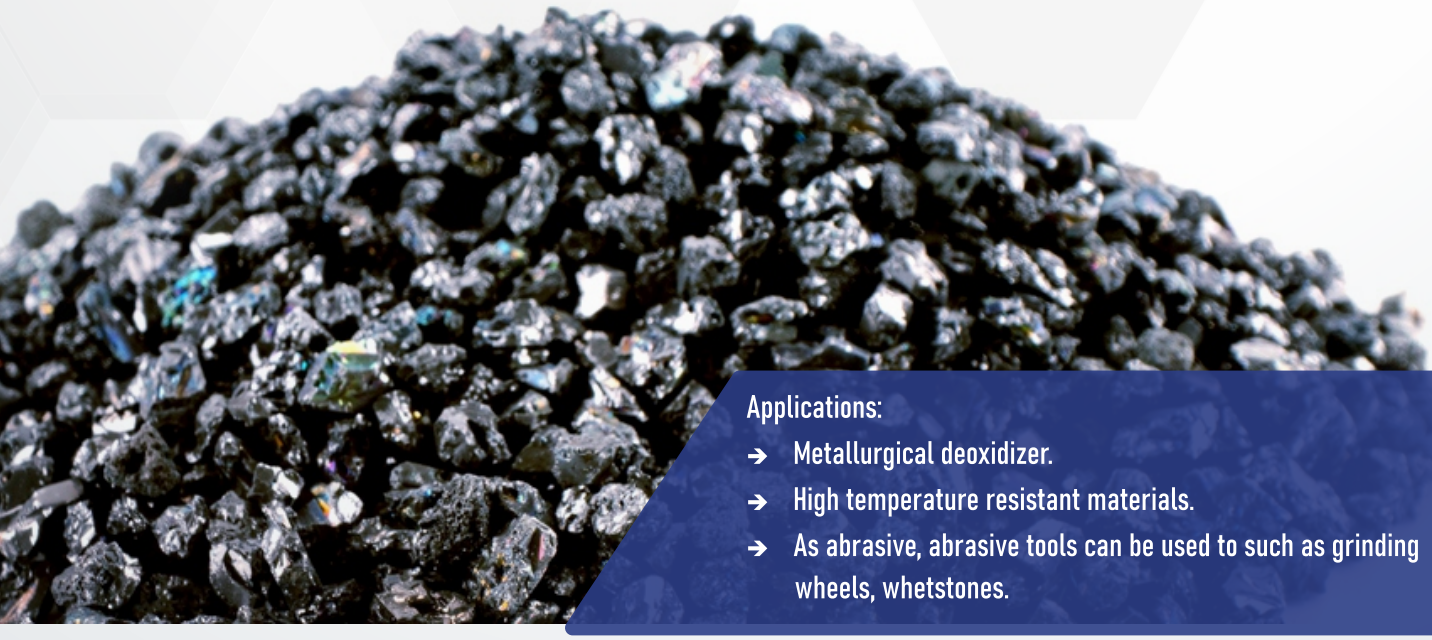
Silicon Carbide

SiC

Silicon Carbide is manufactured through heating silica sand and carbon to high temperatures in the Acheson furnace. Silicon Carbide is an extremely hard material (Mohs hardness 9.25), is chemically inert. Silicon Carbide has a high thermal conductivity, a low coefficient of thermal expansion, is thermal shock and abrasion resistant and has strength at high temperatures. Silicon Carbide's varied properties make it an effective material in many different applications. Silicon Carbide is manufactured through heating silica sand and carbon to high temperatures in the Acheson furnace. Silicon Carbide is an extremely hard material (Mohs hardness 9.25), is chemically inert.

Specifications

Item	Sic	Free carbon	Fe2o3	Size(mm)
SiC 88	88.5% Min	2.80% Max	0.50% Max	1-10
SiC 90	90% Min	2.70% Max	0.50% Max	1-10



Applications:

- Metallurgical deoxidizer.
- High temperature resistant materials.
- As abrasive, abrasive tools can be used to such as grinding wheels, whetstones.

Graphite Briquette
Natural Graphite Powder and Flakes

Graphite Briquette

Graphite briquettes are made from high-power graphite electrode powder with specially selected binders to ensure:

- High carbon content
- High density and strength
- Low ash and low sulphur
- Good thermal conductivity

Specifications:

FC	Ash + VM	Moisture	Sulphur	Size
94.0 ~ 95.0 % Min	5% Max	2.0% Max	0.05% Max	0.50 -0.75 inch

Application

- They are widely used as an efficient recarburizer for increasing carbon levels in molten metal, especially in foundry applications.

Natural Graphite Powder & Flakes

Graphite is a natural carbon material known for excellent electrical and thermal conductivity, high strength, and stability at temperatures above 3,600°C. It is lightweight, chemically inert, corrosion-resistant, and offers natural lubricity.

Graphite occurs in three main types based on formation:

- Amorphous (70–85% carbon)
- Vein/Lump (90–99% carbon)
- Flake (80–98% carbon)

Specifications:

- Fixed carbon: 75%–99.5%
- Particle size: 35 mesh to 3000 mesh (as per industry needs)

Applications:

- Used in carbon steel forging, lithium-ion batteries, crucibles, refractories, brake pads, dry cells, lubricants, electronics, sports goods, and pencils.

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