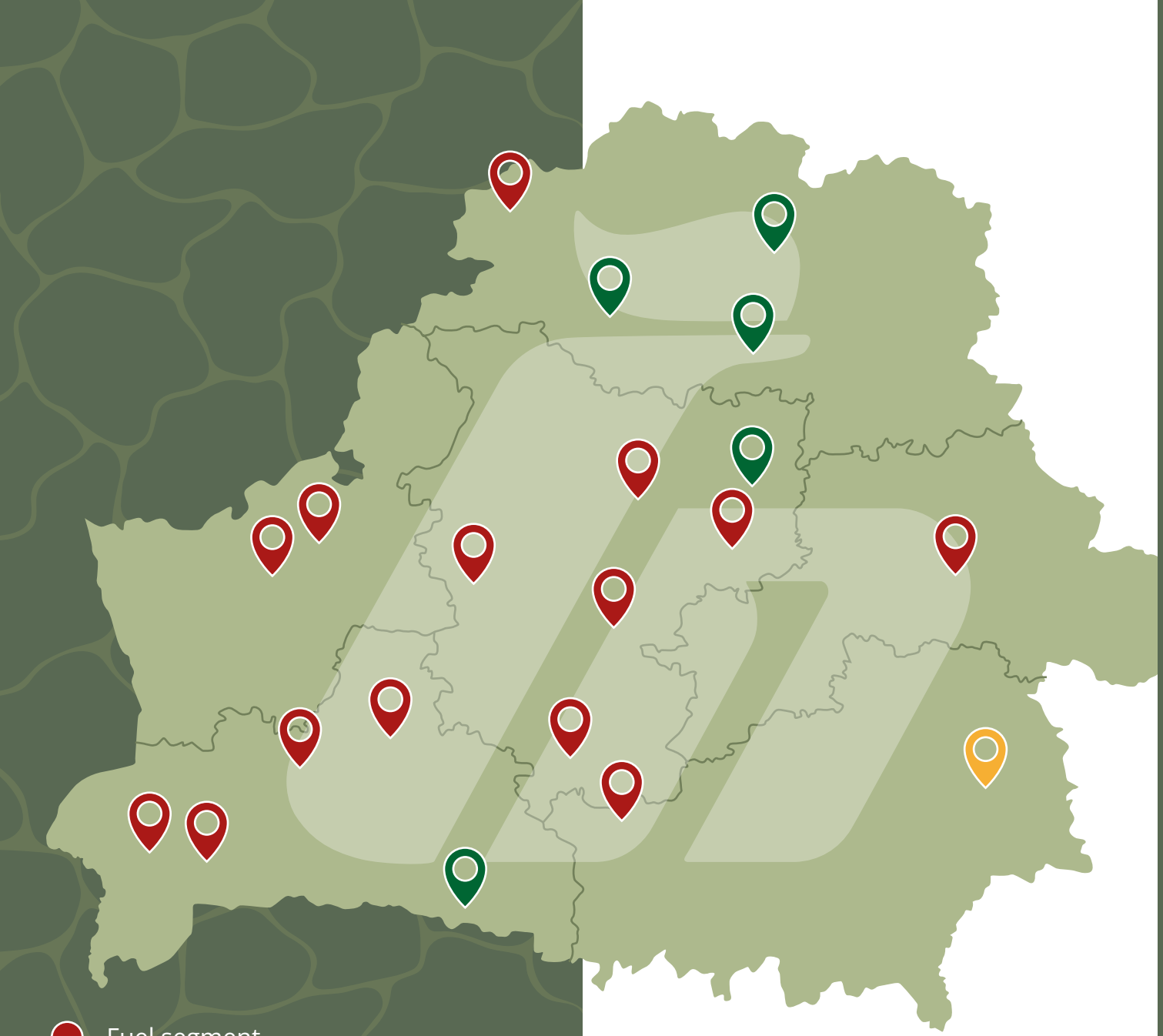
PEAT PRODUCTS FROM BELARUS

BELTOPGAS

МІНІСТЭРСТВА ЭНЕРГЕТЫКІ РЭСПУБЛІКІ БЕЛАРУСЬ



over 100
years of peat extraction

Peat reserves in the Republic are estimated at

2,4
billion tonnes

Ranked among the

Top 5
peat-producing countries worldwide

World leader
in the production of fuel briquettes

PEAT INDUSTRY

NON-FUEL SEGMENT

Peat reserves suitable for non-fuel applications account

30%

of the Republic's total peat reserves

Peat extraction area:

2,000

ha

Developed

>200

substrate formulations

Annual extraction volume:

>1

million m^3

Exported to

>13

countries worldwide

TYPES OF NON-FUEL PEAT PRODUCTS

BELTOPGAS

HIGH-MOOR PEAT: MILLED, BLOCK-CUT

PEAT-BASED SUBSTRATES

COVERING MATERIAL FOR CHAMPIGNON CULTIVATION

PEAT FOR AGRICULTURAL USE

HIGHT-MOOR PEAT

fraction: 0-7 mm

fraction: 7-15 mm

fraction: 15-30 mm

fraction: 0-40 mm

Packaging options:

BLOCK-CUT PEAT

PEAT-BASED SUBSTRATES

N

Nitrogen is one of the most important macronutrients. Plant development is impossible without it. It regulates metabolism and is a key component of all proteins, cytoplasm, cell nuclei, amino acids, chlorophyll, hormones, vitamins, and other compounds.

Phosphorus is essential for the proper course of energy processes in plant cells.

P

K

Potassium is necessary for plant growth, disease resistance, and high yield.

Manganese activates numerous enzymes in plants, promotes the synthesis of proteins, reduces the content of soluble forms of nitrogen, and is also involved in chlorophyll formation, energy transfer for photosynthesis, and nitrogen assimilation.

Mn

Cu

Copper is also required for chlorophyll formation and is involved in protein and carbohydrate metabolism.

Under the influence of **molybdenum,** plants show increased levels of carbohydrates, carotene, ascorbic acid, proteins, and chlorophyll, as well as enhanced photosynthetic activity.

Mo

Fe

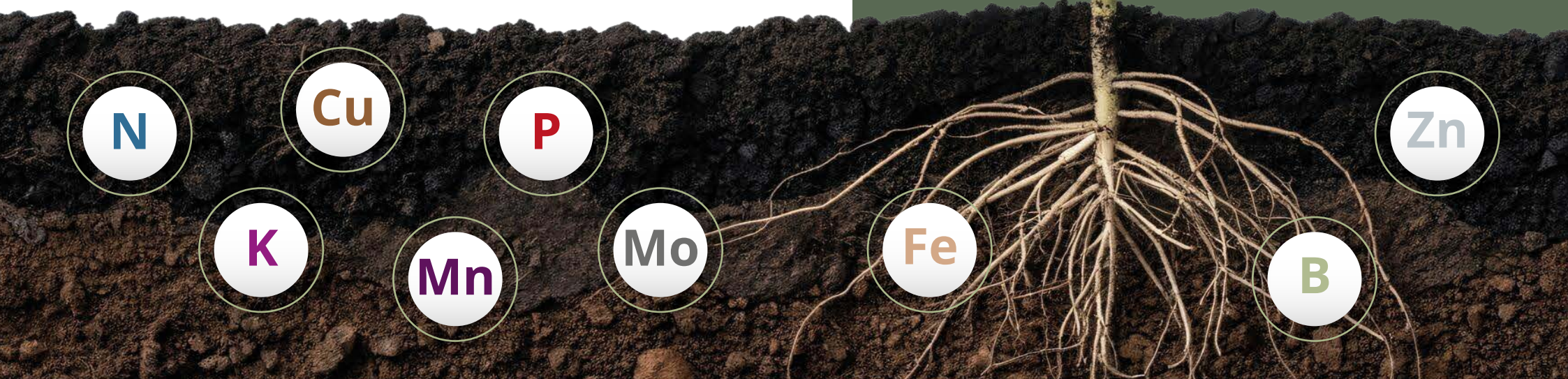
Iron is responsible for oxygen transport not only in animals and humans but also in plants. It is a key component of substances essential for photosynthesis and plays an important role in plant adaptation to stress factors.

Zn

Zinc gives plants resistance to adverse weather conditions.

B

Boron helps plants to flower and set fruit.



MAIN FORMULATIONS OF PEAT-BASED NUTRIENT SUBSTRATES

Blueberry

pH: 2,8 - 4,2

- High-moor peat: 75%
- Low-moor peat: 15%
- Perlite: 10%

Seedling

pH: 5,5 - 6,0

- High-moor peat: 70%
- Low-moor peat: 30%

Coniferous

pH: 5,0 - 5,5

- High-moor peat: 50%
- Low-moor peat: 40%
- Perlite: 10%

Flowering

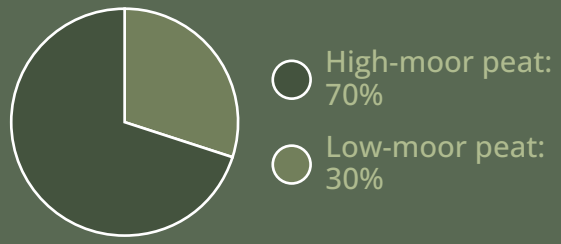
pH: 5,5 - 6,5

- High-moor peat: 70%
- Low-moor peat: 25%
- Perlite: 5%

MAIN FORMULATIONS OF PEAT-BASED NUTRIENT SUBSTRATES

Vegetables

pH: 6,0 - 6,5



- High-moor peat: 70%
- Low-moor peat: 30%

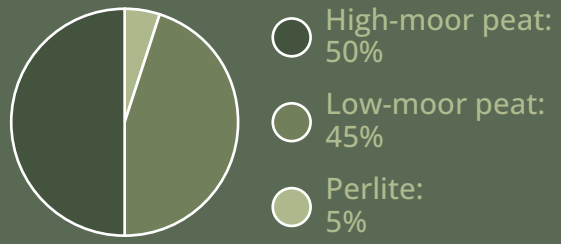
Palm

pH: 6,0 - 6,5

- High-moor peat: 50%
- Low-moor peat: 40%
- Perlite: 10%

Tomatoes and Peppers

pH: 5,5 - 6,0



- High-moor peat: 50%
- Low-moor peat: 45%
- Perlite: 5%

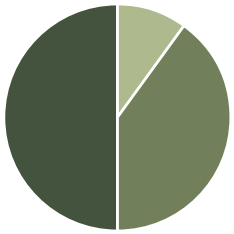
Orchids

pH: 5,0 - 6,0

- High-moor peat: 60%
- Bark: 20%
- Expanded clay: 20%

Turf

pH: 6,0 - 6,5



- High-moor peat: 50%
- Peat for composting: 40%
- Sand: 10%

Tobacco

pH: 5,5 - 6,5
High-moor peat, fraction 0-10 mm
Micronutrient content: 50 g/m^3

Covering material for champignon cultivation

A blend of peats with a tailored botanical composition, featuring high water and air retention, with specific additives that regulate its acidity according to the developed original formulation.

PEAT INDUSTRY

FUEL SEGMENT

≈1

million tonnes
of briquettes
produced annually

≈2

million tonnes
of fuel peat extracted

Substitutes

≈450

million m^3 of natural gas
in the Republic of Belarus'
fuel balance

FUEL BRIQUETTES

Length, mm	180-200
Width, mm	60-80
Thickness, mm	20-70
Moisture, max, %	20
Ash content, max, %	23
Lower heating value, min, kcal/kg	3000

Packaging options

Bulk

On pallet

Big bag

Delivery options

Rail transport

Road transport

PEAT DRYING PRODUCT

Lower heating value, kcal/kg, min	3000
Moisture, max, %	20
Ash content, max, %	23

MILLED FUEL PEAT

Moisture content, max, %	52
Ash content, max, %	23
Lower heating value, kcal/kg, min	1700
Total sulfur content, %, max	0,5

MAIN AREAS OF FUEL PEAT PRODUCTS USE

CEMENT PLANTS

POWER GENERATION FACILITIES

HOUSEHOLDS

HOUSING AND COMMUNAL SERVICES FACILITIES

Feed additive

Feed preservative

Humic acid-based fertilizer

Granulated soil conditioner

FACTS ABOUT DEEP PROCESSING

A natural product derived from environmentally clean raw materials (low-moor peat)

Preserves the full range of biologically active substances: humic and fulvic water-soluble acids, vitamins, macro- and micronutrients in bioavailable organic forms

Increases yield and quality of agricultural crops while maintaining and enhancing soil fertility

Ensures stable plant growth and development throughout the entire growing season

Improves root system development and enhances resistance to environmental stress factors such as drought, frost, and diseases

Higher nutrient retention in feed

Positively influences nutrient uptake by cattle

PEAT HUMATES

Enhances soil fertility, crop yield, and quality of agricultural produce

FEED PRESERVATIVE

A product for ensiling silage, haylage, and rolled grain that preserves nutritional value and suppresses the growth of spoilage microorganisms

FEED ADDITIVE

Optimizes cattle digestion, enhancing productivity and herd health

BELTOPGAS

A division of
the peat industry

CONTACTS:

**Ministry of Energy
of the Republic of Belarus**

Beltopgaz State Production Association

mail@topgas.by

topgas.by

**Foreign Economic
Cooperation Department**

+375 17 311-30-78

**Peat Industry
Management**

+375 17 311-30-52

+375 17 311-30-33