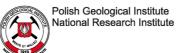


# OIL AND GAS IN POLAND 2022

5TH
and 6TH
TENDER
ROUNDS

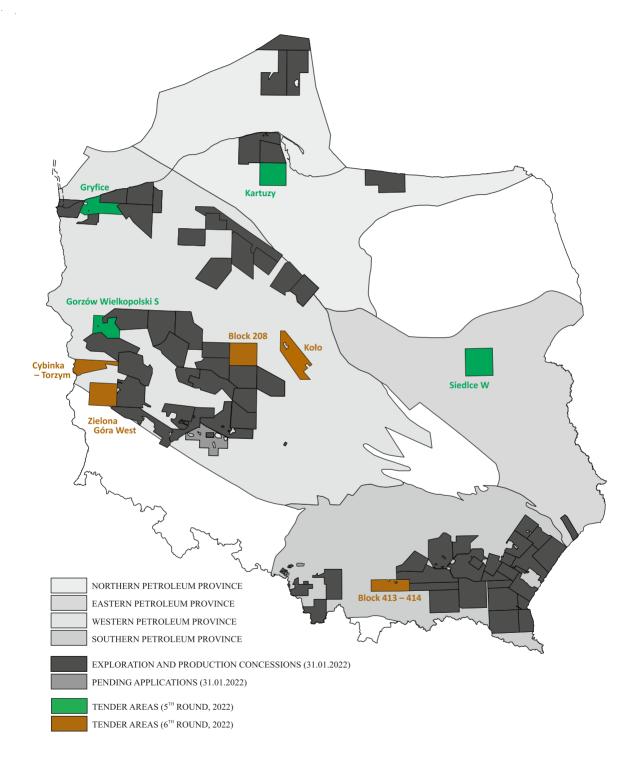
INFORMATION AND OPPORTUNITIES













ROUND V	TENDER AREAS	MAIN EXPLORATION TARGET	
page 8	GORZÓW WIELKOPOLSKI S	Permian (Main Dolomite <sup>c</sup> )	
page 9	GRYFICE	Permian (Main Dolomite <sup>c</sup> , Rotliegend <sup>c</sup> ); Carboniferous <sup>c</sup>	
page 10	KARTUZY	Lower Paleozoic <sup>Ush</sup> ; Cambrian <sup>c+Ut</sup>	
page 11	SIEDLCE W	Lower Paleozoic <sup>ush</sup> ; Cambrian <sup>c</sup>	
ROUND VI	TENDER AREAS	MAIN EXPLORATION TARGET	
page 13	BLOCK 208	Carboniferous, Permian (Culm <sup>⊍</sup> , Rotliegend <sup>⊍</sup> , Main Dolomite <sup>c</sup> )	

Permian page 15 CYBINKA - TORZYM (Main Dolomite<sup>c</sup>) Mesozoic page 16 KOŁO (Triassic<sup>c</sup>, Jurassic<sup>c</sup>+Ush, Cretaceous<sup>c</sup>) Permian page 17 ZIELONA GÓRA WEST (Rotliegend<sup>c</sup>, Main Dolomite<sup>c</sup>)

<sup>&</sup>lt;sup>c</sup>- conventional, <sup>Ush</sup>- unconventional shale gas and shale oil, <sup>Ut</sup>- unconventional tight gas

# **PREFACE**

The exploration and production of oil and gas in Poland is licensed. The granting of a hydrocarbon concession is proceeded according to a <u>TENDER</u> procedure or OPEN DOOR procedure.

On the 26th of June 2020, four areas promising for discoveries of conventional and unconventional oil and gas deposits in Poland were announced by the Polish Minister of the Environment and dedicated to the 5th TENDER round for hydrocarbon concessions, planned in Q2, 2022. These are: Gorzów Wielkopolski S, Gryfice, Kartuzy, and Siedlce W areas.

The detailed geological data on the tender areas (location, environmental restrictions, geology, petroleum plays, hydrocarbon deposits, wells, seismic surveys, gravimetry, magnetic and magnetotelluric surveys, as well as petroleum prospectives) are collected in the individual GEOLOGICAL DATA PACKAGES, which will be published on the following websites, when the tender begins:

https://www.pgi.gov.pl/en/tender-blocks.html https://bip.mos.gov.pl/koncesje-geologiczne/

These data will be also available in the DATA ROOM organized in the National Geological Archive (Polish Geological Institute - National Research Institute, 4 Rakowiecka Street, Warsaw, Poland) during the tender.

In Q4 2022, another tender is planned. Five areas – Block 208, Block 413 – 414, Cybinka – Torzym, Koło, and Zielona Góra West – were selected by the Polish Minister of Climate and Environment as the subject of the 6th <u>TENDER</u> round. These areas were reported as prospective for oil and gas exploration by the geologists of the Polish Geological Institute – National Research Institute and Department of Geology and Geological Concessions of the Ministry of Climate and Environment.

An entity may also apply for a concession for any area that is not a subject of a tender or other concession (OPEN DOOR procedure). However, the area can not exceed 1200 km<sup>2</sup>.

In both cases, the concession is granted for a period of 10 to 30 years and is divided into: (I) exploration phase, (II) production phase (starts after obtaining an investment decision). In the case where a deposit is documented or partly documented, it is also provided that the hydrocarbon production from the deposit can be started even as the exploration phase is still underway.

In this folder, we present some basic information about the areas dedicated to the 5th and 6th tender rounds for hydrocarbon concessions in Poland. Short characteristics of geology and petroleum plays with maps illustrating geographic position, neighboring concessions, hydrocarbon deposits, wells, and seismic surveys, are presented.

We believe that this publication will contribute to a better understanding of the Polish licensing law and encourage investments in the Polish oil and gas market.

With best regards,

Polish Geological Institute - National Research Institute

Ministry of Climate and Environment

# TENDER SCHEME AND SCHEDULE

TASK	5 <sup>™</sup> TENDER ROUND	6 <sup>™</sup> TENDER ROUND

on the application for a c	qualification procedure:	
on the application for a c	qualification procedure:	
Regulation of the Council of Ministers of 30 December 2020 on the application for a qualification procedure: http://isap.sejm.gov.pl/isap.nsf/DocDetails.xsp?id=WDU20210000073		
https://www.pgi.gov.pl/en/tender-blocks/geological-data-sets.html		
underway	underway	
Approval Ministry of State Assets Opinion head of local administration, mayor of a town/city		
2022	2022	
National Geological Archive PGI-NRI, 4 Rakowiecka Street, Warsaw, Poland during the tender		
PARATION AND SUBMISSION FER (MINIMUM 90 DAYS)		
	underway  Appro Ministry of St Opini head of local ac mayor of a  2022  National Geolo PGI-NRI, 4 Rakowiecka S during the	

EVALUATION AND SELECTION OF THE MOST FAVOURABLE OFFER Ministry of Climate and Environment

GRANTING OF A CONCESSION AND CONCLUSION OF AN AGREEMENT ON THE ESTABLISHMENT OF THE MINING USUFRUCT Ministry of Climate and Environment

# OPEN DOOR SCHEME AND SCHEDULE

TASK OPEN DOOR

QUALIFICATION PROCEDURE	Regulation of the Council of Ministers of 30 December 2020 on the application for a qualification procedure: http://isap.sejm.gov.pl/isap.nst/DocDetails.xsp?id=WDU20210000073		
DATA ROOM (on a request of an entity) PGI-NRI	National Geological Archive PGI-NRI, 4 Rakowiecka Street, Warsaw, Poland during the tender		
SUBMISSION OF AN OFFER	An entity can select an area and apply for a concession by submitting an application to the Ministry of Climate and Environment. The area indicated by the entity cannot be a subject of a tender or any other concession, and the maximum acreage is 1200 km <sup>2</sup>		
PUBLICATION OF AN ANNOUNCEMENT IN THE OFFICIAL JOURNAL OF EU Ministry of Climate and Environment	The submission of the application by the entity initiates the publication of an announcement		
TIME FOR PREPARATION AND SUBMISSION OF A COMPETITIVE OFFER (MINIMUM 90 DAYS)			
EVALUATION AND SELECTION OF THE MOST FAVOURABLE OFFER Ministry of Climate and Environment			
APPROVALS AND OPINIONS Ministry of Climate and Environment	OFFSHORE Approval Ministry of State Assets, Ministry of Infrastructure or Head of Maritime Office Opinion State Mining Authority, Ministry of National Defence, Ministry of Agriculture and Rural Development	ONSHORE Approval Ministry of State Assets Opinion head of local administration, mayor of a town/city	

GRANTING OF A CONCESSION
AND CONCLUSION OF AN AGREEMENT
ON THE ESTABLISHMENT OF THE MINING USUFRUCT

# TENDER AREAS 5<sup>TH</sup> ROUND 2022



# 5<sup>™</sup>TENDER

# 1. TENDER AREA **GORZÓW WIELKOPOLSKI S**



ACREAGE: 691.38 km<sup>2</sup>

**WESTERN PETROLEUM PROVINCE** 

Location: onshore: in the areas of the following counties and communes: Lubuskie province, Gorzów Wlkp. county, communes: Bogdaniec (15.46% of the area), Deszczno (22.28%), Lubiszyn (1.61%), Santok (1.73%), Witnica (2.81%); Gorzów Wlkp. City county, commune: Gorzów Wlkp. (3.71%); Międzyrzec county, communes: Bledzew (20.58%), Skwierzyna (6.68%); Sulecin county, communes: Krzeszyce (16.69%), Lubniewice (8.45%)

### **TARGET: PERMIAN** MAIN DOLOMITE

**CONCESSION TYPE:** prospecting, exploration and production TYPE OF DEPOSITS: conventional for oil and gas

SOURCE ROCKS: Main Dolomite carbonate platform and slope microbialites, basin plain fine-grained clastic rocks **RESERVOIR ROCKS:** Main Dolomite carbonate platform and slope limestones and dolomites

**SEAL ROCKS:** Zechstein evaporites

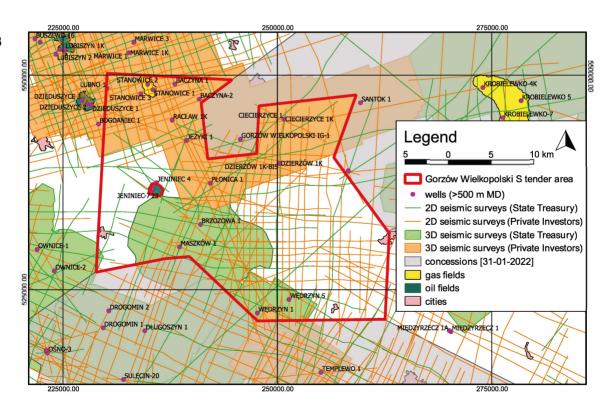
TRAP TYPES: structural, lithological, mixed

WELLS: 16 deep wells > 500 m MD

SEISMIC SURVEYS: 137 lines 2D of total length ~1553 km;

6 surveys 3D of total acreage ~417 km2

OIL AND GAS FIELDS (as exploration analogues): Jeniniec and Dzieduszyce oil fields, Stanowice and Krobielewko gas fields



# 2. TENDER AREA GRYFICE





ACREAGE: 747.96 km<sup>2</sup>

### WESTERN PETROLEUM

**PROVINCE** 

Location: onshore; in the areas of the following counties and communes: Zachodniopomorskie province, Gryfice county, communes: Brojce (6.60% of the area), Gryfice (24.17%), Karnice (5.60%), Płoty (4.78%), Rewal (1.67%), Trzebiatów (0.75%); Kamień Pomorski county, communes: Dziwnów (3.11%), Golczewo (3.09%), Kamień Pomorski (26.39%), Świerzno (18.72%), Wolin (5.12%)

# TARGET: CARBONIFEROUS; PERMIAN ROTLIEGEND, MAIN DOLOMITE ADDITIONAL TARGET

**CONCESSION TYPE:** prospecting, exploration and production **TYPE OF DEPOSITS:** conventional for oil and gas

**SOURCE ROCKS:** Carboniferous claystones and mudstones; Main Dolomite carbonate platform and slope microbialites, basin plain fine-grained clastic rocks

**RESERVOIR ROCKS:** Upper Carboniferous and Rotliegend fluvial sandstones, Main Dolomite carbonate platform and slope limestones and dolomites

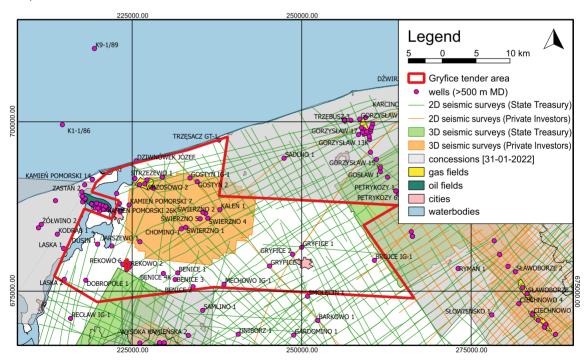
**SEAL ROCKS:** Rotliegend volcanics and Zechstein evaporites **TRAP TYPES:** mixed, structural, lithological, continuous

WELLS: 35 deep wells >500 m MD

SEISMIC SURVEYS: 138 lines 2D of total length ~1488 km;

3 surveys 3D of total acreage ~313 km²

OIL AND GAS FIELDS (as exploration analogues): Rekowo, Kamien Pomorski, and Wysoka Kamieńska oil fields; Wrzosowo, Dargosław, Gorzysław N, Gorzysław S, and Trzebusz gas fields



# 3. TENDER AREA KARTUZY





ACREAGE: 900.35 km<sup>2</sup>

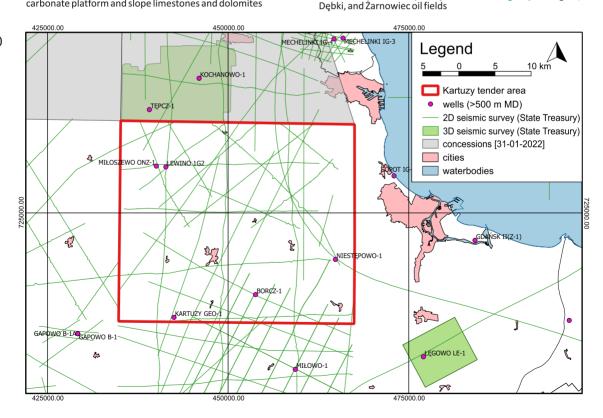
NORTHERN PETROLEUM PROVINCE

Location: onshore; in the areas of the following counties and communes: Pomorskie province, Gdańsk City county, commune: Gdańsk City (4.26% of the area); Gdańsk county, communes: Kolbudy (3.63%), Przywidz (1.33%); Gdynia City county, commune: Gdynia City (3.89%); Kartuzy county, communes: Chmielno (8.13%), Kartuzy (20.21%), Przodkowo (9.46%), Sierakowice (0.12%), Somonino (6.90%), Stężyca (0.84%), Żukowo (18.18%); Wejherowo county, communes: Linia (5.44%), Luzino (0.88%), Łęczyce (<0.01%), Szemud (16.61%), Wejherowo (0.12%)

# TARGET: MIDDLE CAMBRIAN, LOWER PALEOZOIC SHALES; PERMIAN MAIN DOLOMITE ADDITIONAL TARGET

CONCESSION TYPE: prospecting, exploration and production TYPE OF DEPOSITS: conventional and unconv. for oil and gas SOURCE ROCKS: Upper Cambrian, Ordovician and Silurian fine-grained clastic rocks; Main Dolomite unidentified rocks RESERVOIR ROCKS: Middle Cambrian sandstones, Ordovician and Silurian claystones and mudstones; Main Dolomite carbonate platform and slope limestones and dolomites

SEAL ROCKS: Upper Cambrian, Ordovician and Silurian finegrained clastic rocks; Zechstein evaporites TRAP TYPES: structural, stratigraphic, mixed, continuous WELLS: 4 deep wells >500 m MD SEISMIC SURVEYS: 35 lines 2D of total length ~625 km OIL AND GAS FIELDS (as exploration analogues): Białogóra,



# 4. TENDER AREA SIEDLCE W





ACREAGE: 1200,00 km<sup>2</sup>

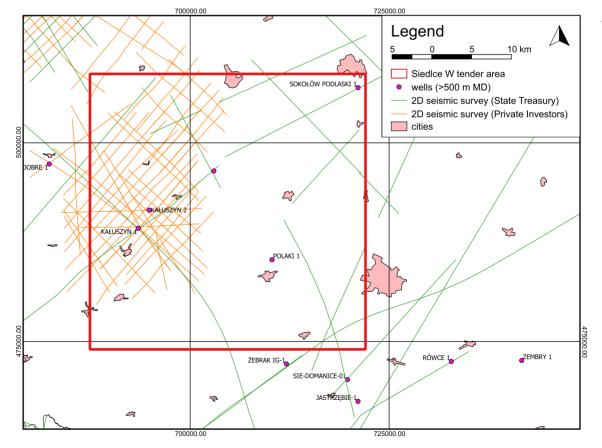
EASTERN PETROLEUM PROVINCE

### TARGET: CAMBRIAN, LOWER PALAEOZOIC SHALES

CONCESSION TYPE: prospecting, exploration and production TYPE OF DEPOSITS: conventional and unconv. for oil and gas SOURCE ROCKS: Ordovician and Silurian fine-grained clastics RESERVOIR ROCKS: Lower and Middle Cambrian sandstones, Silurian mudstones

Location: onshore; in the areas of the following counties and communes: Mazowieckie province, Mińsk county, communes: Cegłów (2.33% of the area), Dobre (0.96%), Jakubów (0.34%), Kałuszyn (7.82%), Mrozy (8.14%); Siedlce City county, commune: Siedlce City (0.55%); Siedlce county, communes: Kotuń (12.52%), Mokobody (9.94%), Siedlce (3.84%), Skórzec (6.74%), Suchożebry (2.32%), Wiśniew (0.76%), Wodynie (<0.01%); Sokołów county, communes: Bielany (5.52%), Sokołów Podlaski city (0.29%), Sokołów Podlaski (3.45%); Węgrów county, communes: Grębków (10.89%), Korytnica (4.80%), Liw (9.03%), Węgrów (1.41%), Wierzbno (8.35%)

SEAL ROCKS: Ordovician and Silurian fine-grained clastic rocks WELLS: 5 deep wells >500 m MD SEISMIC SURVEYS: 58 lines 2D of total length ~753 km OIL AND GAS FIELDS (as exploration analogues): none



# TENDER AREAS 6TH ROUND 2022



# 1. TENDER AREA BLOCK 208





ACREAGE: 946.10 km<sup>2</sup>

WESTERN PETROLEUM PROVINCE

Location: onshore; in the areas of the following counties and communes: Wielkopolskie province, Gniezno county, communes: Czerniejewo (6.44% of the area), Gniezno (0.33%), Gniezno City (0.62%), Łubowo (0.10%), Niechanowo (10.67%), Witkowo (16.92%); Słupca county, communes: Orchowo (1.28%), Ostrowite (4.16%), Powidz (7.65%), Słupca (10.91%), Słupca City (1.09%), Strzałkowo (15.02%); Września county, communes: Kołaczkowo (2.85%), Miłosław (0.42%), Nekla (0.03%), Września (21.51%)

# TARGET: CARBONIFEROUS, PERMIAN ROTLIEGEND, MAIN DOLOMITE

CONCESSION TYPE: prospecting, exploration and production TYPE OF DEPOSITS: unconventional for gas

and conventional for oil and gas

SOURCE ROCKS: Carboniferous fine-grained clastic rocks, Main Dolomite carbonate platform and slope microbialites, basin plain fine-grained clastic rocks

**RESERVOIR ROCKS:** Carboniferous and Upper Rotliegend sandstones, Main Dolomite carbonate platform and slope limestones and dolomites

**SEAL ROCKS:** Zechstein evaporites

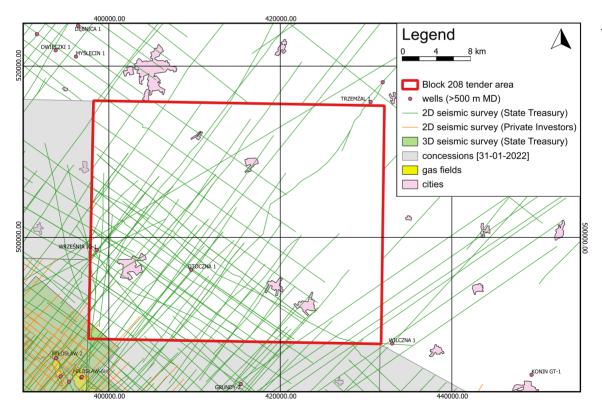
TRAP TYPES: geomorphological, structural, continuous

WELLS: 2 deep wells > 500 m MD

SEISMIC SURVEYS: 77 lines 2D of total length ~1136 km;

1 survey 3D of acreage ~2 km<sup>2</sup>

OIL AND GAS FIELDS (as exploration analogues): none



# 2. TENDER AREA **BLOCK 413 – 414**





ACREAGE: 666.20 km<sup>2</sup>

### SOUTHERN PETROLEUM PROVINCE

# TARGET: OUTER CARPATHIANS (SILESIAN UNIT); CARPATHIAN FOREDEEP. CARPATHIAN BASEMENT

**CONCESSION TYPE:** prospecting, exploration and production **TYPE OF DEPOSITS:** conventional for oil and gas

**SOURCE ROCKS:** Menilite, Cieszyn, Verovce, Grodziszcze, and Lgota beds; Miocene mudstones and claystones; Silurian and Culm fine-grained clastic rocks, Devonian carbonate rocks

RESERVOIR ROCKS: Istebna and Ciężkowice beds; Miocene sandstones and siltstones; Cretaceous and (Pre)Cambrian sandstones, Devonian, Carboniferous, and Jurassic carbonate rocks

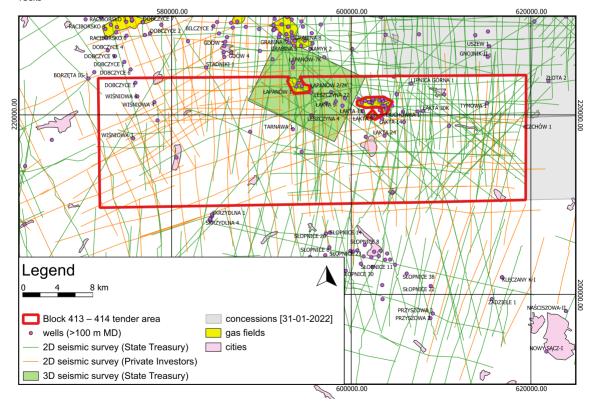
Location: onshore; in the areas of the following counties and communes: Małopolskie province, Bochnia county, communes: Lipnica Murowana (7.65% of the area), Łapanów (6.50%), Nowy Wiśnicz (2.02%), Trzciana (6.35%), Żegocina (5.06%); Brzesko county, communes: Czchów (4.54%), Gnojnik (1.60%), Iwkowa (7.08%); Limanowa county, communes: Dobra (1.40%), Jodłownik (10.44%), Laskowa (7.23%), Limanowa (5.95%), Tymbark (0.37%); Myślenice county, communes: Dobczyce (5.34%), Myślenice (4.70%); Pcim (1.79%), Raciechowice (9.17%), Siepraw (0.21%), Wiśniowa (8.66%); Nowy Sącz county, communes: Gródek n/Dunajcem (0.16%), Łososina Dolna (2.86%); Wieliczka county, commune: Gdów (0.92%)

**SEAL ROCKS:** fine-grained clastic rocks of the Outer Carpathians and Carpathian Foredeep

TRAP TYPES: structural, stratigraphic, compactional anticlines WELLS: 34 deep wells > 100 m MD

SEISMIC SURVEYS: 176 lines 2D of total length ~1797 km; 1 survey 3D of acreage ~55 km²

OIL AND GAS FIELDS (as exploration analogues): Łąkta and Łapanów gas fields



# 3. TENDER AREA CYBINKA – TORZYM





ACREAGE: 668.50 km<sup>2</sup>

WESTERN PETROLEUM PROVINCE

Location: onshore; in the areas of the following counties and communes: Lubuskie province, Krosno Odrzańskie county, communes: Bytnica (19.30% of the area), Gubin (0.32%), Krosno Odrzańskie (0.23%), Maszewo (22.09%); Słubice county, cummune: Cybinka (31.52%); Sulęcin county, commune: Torzym (8.45%); Świebodzin county, communes: Lubrza (2.85%), Łagów (9.75%), Skąpe (1.83%), Świebodzin (3.66%)

### TARGET: PERMIAN MAIN DOLOMITE

CONCESSION TYPE: prospecting, exploration and production TYPE OF DEPOSITS: conventional for oil and gas SOURCE ROCKS: Main Dolomite carbonate platform and slope microbialites, basin plain fine-grained clastic rocks RESERVOIR ROCKS: Main Dolomite carbonate platform and slope limestones and dolomites

**SEAL ROCKS:** Zechstein evaporites

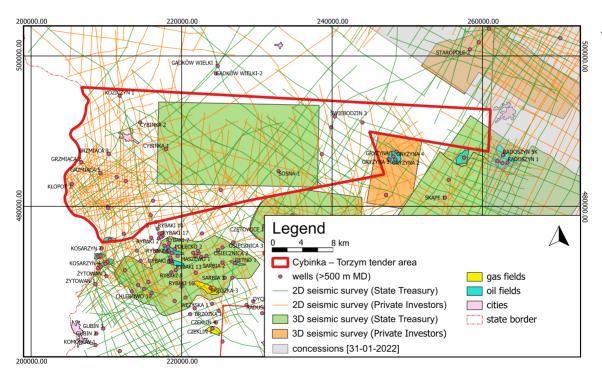
TRAP TYPES: geomorphological, structural, stratigraphic

WELLS: 23 deep wells > 500 m MD

SEISMIC SURVEYS: 198 lines 2D of total length ~1892 km;

3 surveys 3D of total acreage ~245 km<sup>2</sup>

OIL AND GAS FIELDS (as exploration analogues): Kosarzyn N, Kosarzyn E, Gryżyna, and Ołobok oil and gas fields



# 4. TENDER AREA





ACREAGE: 1035,32 km<sup>2</sup>

WESTERN PETROLEUM PROVINCE

# TARGET: MESOZOIC TRIASSIC, JURASSIC, CRETACEOUS

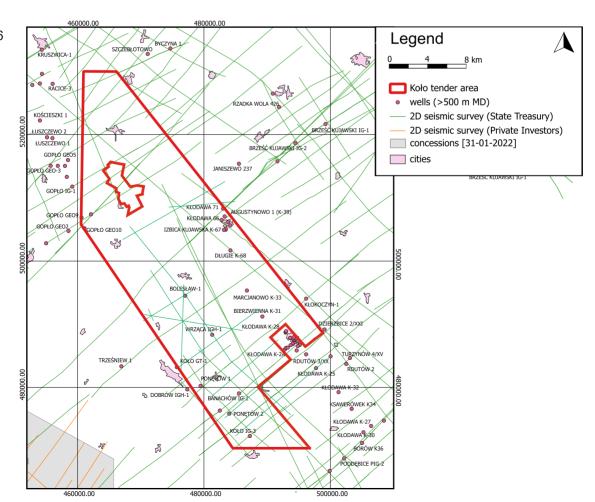
**CONCESSION TYPE:** prospecting, exploration and production **TYPE OF DEPOSITS:** conventional and unconventional (shale) for oil and gas

**SOURCE ROCKS:** Jurassic fine-grained clastic rocks, others unrecognized

**RESERVOIR ROCKS:** Jurassic shales; Triassic, Jurassic and Cretaceous carbonate rocks and coarse-grained clastic rocks

Location: onshore; in the areas of the following counties and communes: Kujawsko-Pomorskie province, Inowrocław county, commune: Kruszwica (2.58% of the area); Radziejów county, communes: Bytoń (2.70%), Piotrków Kujawski (11.22%), Radziejów City (0.14%), Radziejów (1.69%), Topólka (4.66%); Włocławek county, communes: Izbica Kujawska (7.18%), Lubraniec (0.04%); Łódzkie province, Łęczyca county, commune: Grabów (0.06%); Wielkopolskie province, Koło county, communes: Babiak (12.91%), Chodów (0.48%), Dąbie (5.69%), Grzegorzew (7.07%), Kłodawa (9.09%), Koło City (0.09%), Koło (6.84%), Olszówka (4.46%), Osiek Mały (4.13%), Przedecz (1.15%); Konin county, communes: Sompolno (8.39%), Wierzbinek (9.43%)

SEAL ROCKS: Mesozoic and Cenozoic fine-grained clastic rocks, Mesozoic evaporites, Permian salt diapirs
TRAP TYPES: structural, stratigraphic, mixed, continuous
WELLS: 22 deep wells > 500 m MD
SEISMIC SURVEYS: 49 lines 2D of total length ~604 km
OIL AND GAS FIELDS (as exploration analogues): none



# 5. TENDER AREA ZIELONA GÓRA WEST





ACREAGE: 954.57 km<sup>2</sup>

WESTERN PETROLEUM PROVINCE

Location: onshore; in the areas of the following counties and communes: Lubuskie province, Krosno Odrzańskie county, communes: Bobrowice (14.76% of the area), Dąbie (10.05%), Krosno Odrzańskie (0.44%); Nowa Sól county, commune: Kożuchów (2.04%); Zielona Góra county, communes: Czerwieńsk (4.16%), Nowogród Bobrzański (26.57%), Świdnica (16.86%), Zielona Góra (8.70%); Żagań county, communes: Brzeźnica (1.57%), Żagań (0.25%); Żary county, communes: Jasień (6.49%), Lubsko (6.98%), Żary (1.13%)

# TARGET: PERMIAN ROTLIEGEND, MAIN DOLOMITE

**CONCESSION TYPE:** prospecting, exploration and production **TYPE OF DEPOSITS:** conventional for oil and gas

**SOURCE ROCKS:** Carboniferous fine-grained clastic rocks; Main Dolomite carbonate platform and slope microbialites and basin plain fine-grained clastic rocks

RESERVOIR ROCKS: Upper Rotliegend aeolian and alluvial sandstones; Main Dolomite carbonate platform and slope limestones and dolomites

**SEAL ROCKS:** Zechstein evaporites

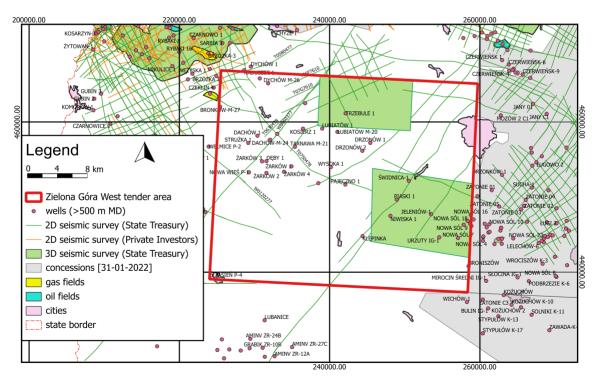
TRAP TYPES: geomorphological, structural, stratigraphic

WELLS: 37 deep wells > 500 m MD

SEISMIC SURVEYS: 29 lines 2D of total length ~309 km;

2 surveys 3D of total acreage ~209 km<sup>2</sup>

OIL AND GAS FIELDS (as exploration analogues): Nowa Sól and Czeklin gas fields, Lelechów and Gryżyna oil and gas fields





# 2022 INFORMATION AND OPPORTUNITIES

### NATURAL GAS

According to the Balance of mineral resources deposits in Poland, published every year by the Polish Geological Institute — National Research Institute, 306 natural gas fields were balanced in 2020 of over 141 bn cbm (5 TCF) of anticipated economic resources. The production from 200 fields achieved 4.9 bn cbm (177 BCF), while domestic consumption in 2020 was ~21 bn cbm (742 BCF).

On the Polish Lowland, the largest natural gas reserves occur in three Permian horizons – Rotliegend, Zechstein Limestone, and Main Dolomite (Western Petroleum Province, WPP). Large, but sparse fields are found also in the Middle Cambrian of the Baltic Basin (Northern Petroleum Province, NPP). Smaller fields are documented in the Devonian and Carboniferous of the Lublin area (Eastern Petroleum Province, EPP) and Western Pomerania (WPP).

In the Carpathians (Southern Petroleum Province, SPP), the largest natural gas reserves occur in the Miocene of the Carpathian Foredeep and its Paleozoic and Mesozoic basement. Smaller fields are documented in the Outer Carpathian flysch succession.

Prognostic resources of conventional natural gas in the

### **CRUDE OIL**

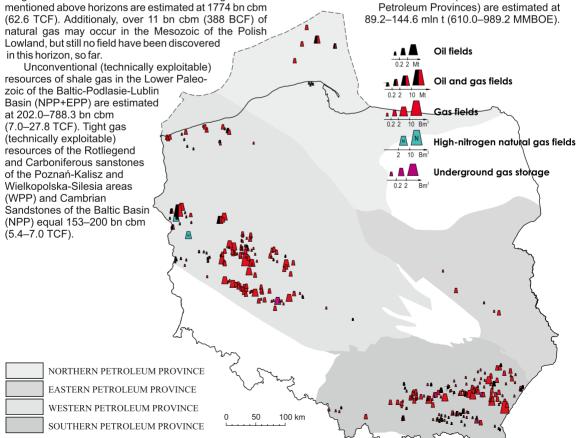
In 2020, 87 crude oil fields were balanced of over 21 mln t (143.66 MMBOE) of anticipated economic resources. The production from 57 exploited fields achieved almost 1 mln t (6 MMBOE), while domestic consumption in 2020 was over 26 mln t (177.9 MMBOE).

On the Polish Lowland, the largest crude oil fields occur in the Permian Main Dolomite horizon (WPP). Similarly as in the case of natural gas, large, but sparse fields occur also in the Middle Cambrian of the Baltic Basin (NPP). Small fields are documented in the Devonian and Carboniferous of the Lublin area (EPP).

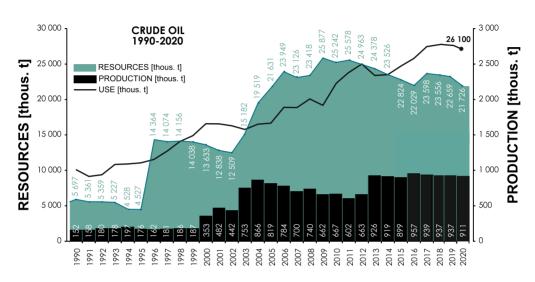
In the Carpathians (SPP), small crude oil fields occur in the Outer Carpathian flysch succession, as well as in the Palaeozoic and Mesozoic basement of the Carpathians and Carpathian Foredeep.

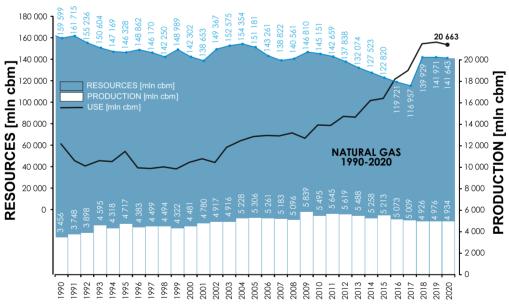
Prognostic resources of conventional crude oil in the described horizons are estimated at about 390 mln t (2.7 BBOE). Almost 5 mln t (34.2 MMBOE) of crude oil may occur in the Mesozoic of the Polish Lowland, as well.

Unconventional (technically exploitable) resources of crude oil in the Lower Palaeozoic shales of the Baltic-Podlasie-Lublin Basin (Northern and Eastern









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