



Meeting with local
stakeholders

„Olefins III Complex construction - potential of the Project”

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19-22-02-2024

Olefins III Complex - range

Increasing the scale of production of olefins (ethylene, propylene) and other petrochemical products (styrene, ethylene and glycol oxide).

Additional margin and maximization of the rate of return.

The target **production capacity** of Olefins in Płock after the project implementation will be **1,040 thousand tone**.

Olefins III Complex

ISBL (Inside Battery Limit)

- **Steam Cracker Unit (SCU),**
- **Styrene Extraction (SE),**
- **Pygas Hydrotreating Unit (PGH),**
- **Ethylene Oxide and Glycols (TEiG),**
- **ETBE Unit (ETBE),**
- **Cooling Water Unit** (Instalacja chłodzenia wody obiegowej, CW),
- **Steam Generation Unit (SGU),**
- **Condensate Treatment Unit (CTU).**

And substation buildings, electrical and control rooms.

(Hyundai Engineering & Tecnicas Reunidas)

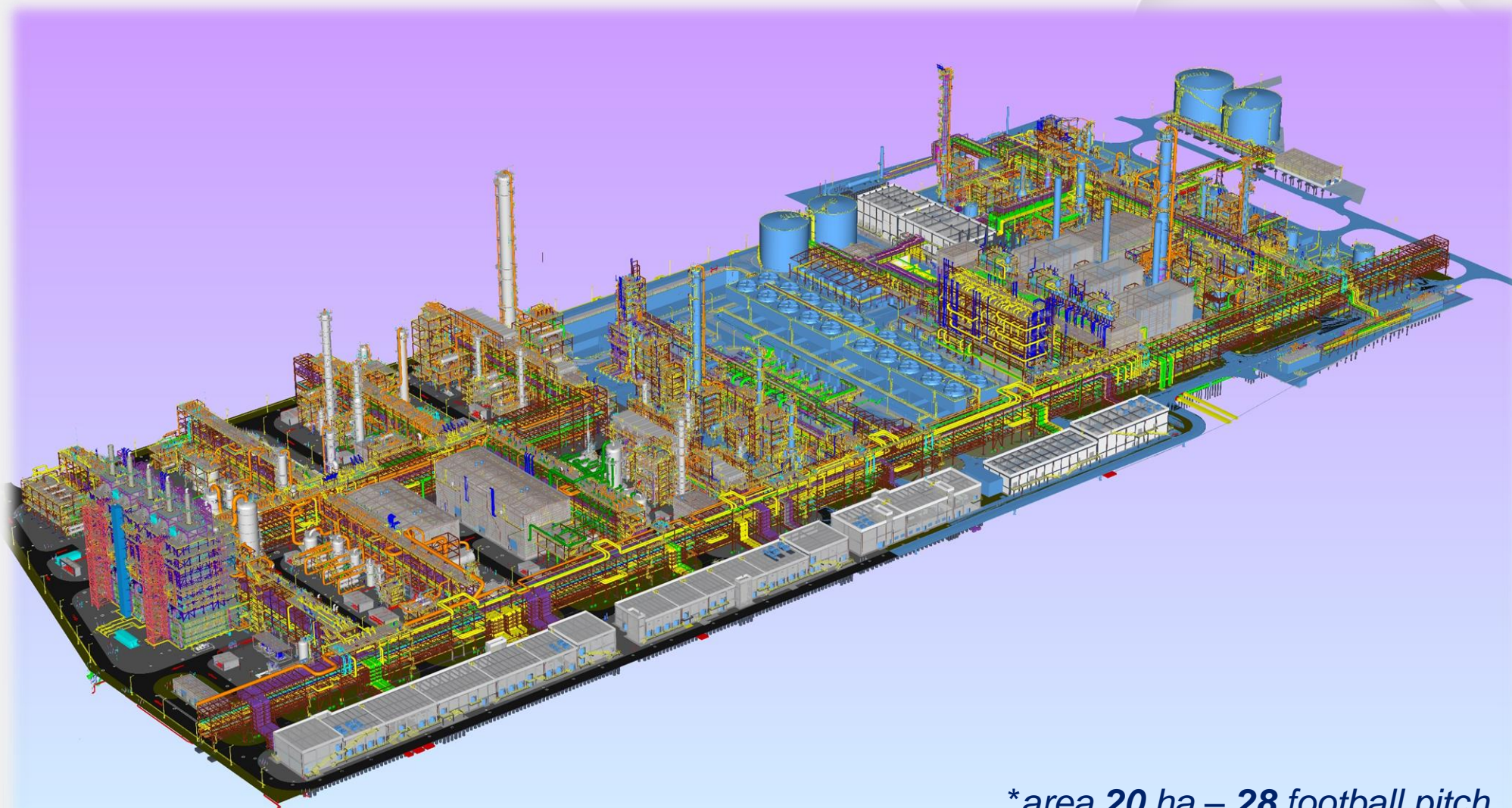
OSBL (Outside Battery Limit)

- **Water Units** (*SEEN Technologie / ATREM*), Package K-001
- **Tanks farm and Logistics infrastructure** (*Aldesa Construcciones Polska (Hiszpania) / China Civil Engineering Construction Corp.*), Package K-002
- **A/g and U/g Utilities interconnection and flare** (*Polimex Mostostal*), Package K-003
- **Power substations and interconnections** (*Zarmen*), Package K-004

Olefins III Complex – main products

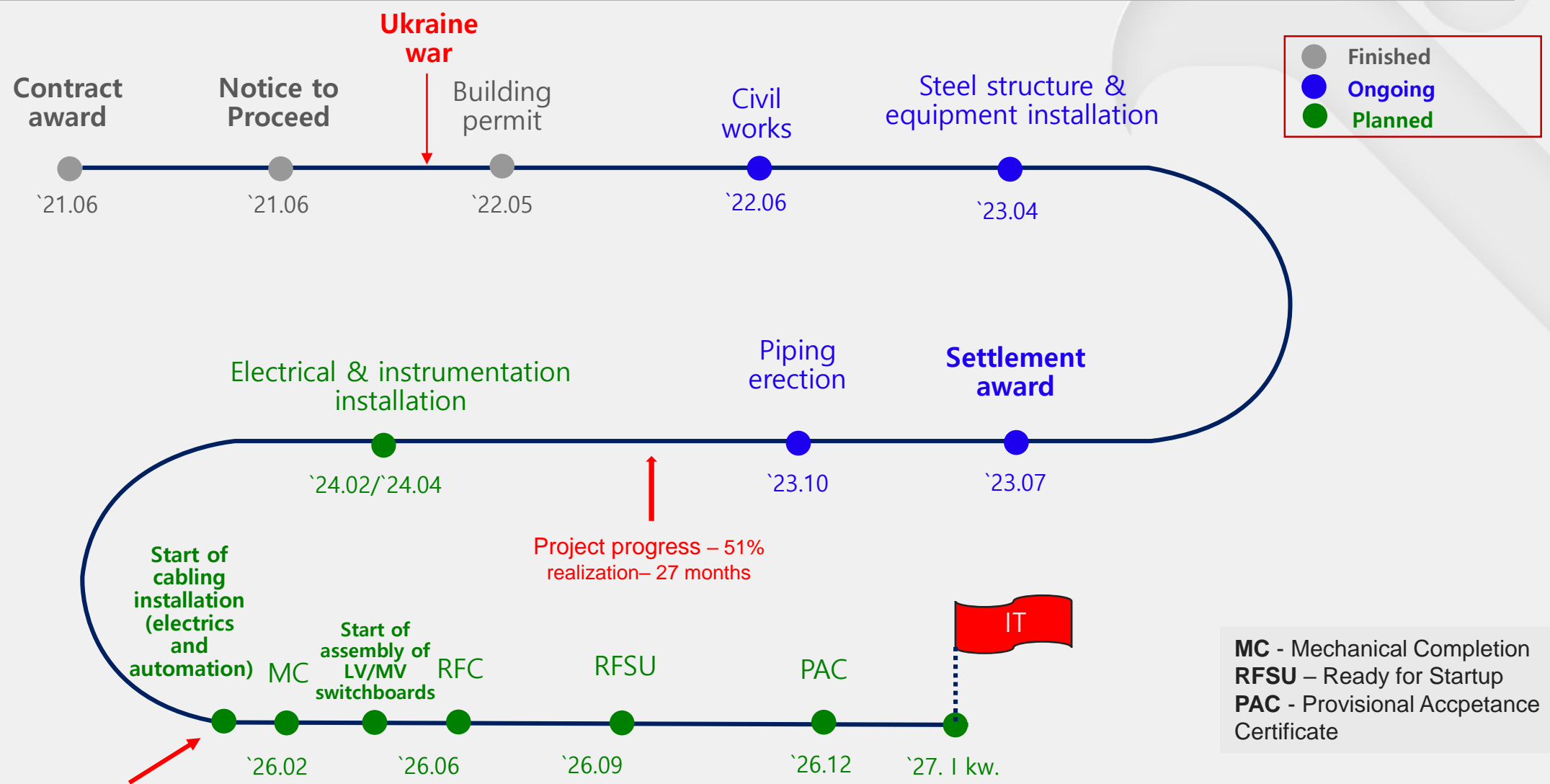
	Main products	Application examples	
SCU	<ul style="list-style-type: none"> Ethylene Propylene 	<ul style="list-style-type: none"> production of polymers, plastics, glycols production of polymers, plastics, glycols 	<p>pipes, foils, caps, bottles</p>
TEiG	<ul style="list-style-type: none"> Ethylene Oxide (EO) Monoethylene glycol (MEG) Diethylene glycol (DEG), Triethylene glycol (TEG) 	<ul style="list-style-type: none"> production of ethylene glycols, polyols sterilization of medical equipment low-freezing component of liquids humidity stabilizer gas drying 	<p>cable insulation, toys</p>
ETBE	<ul style="list-style-type: none"> Ethyl tert-butyl ether (ETBE) 	<ul style="list-style-type: none"> additive to motor gasolines that increases their octane number and improves the combustion process in the engine biofuel additive 	<p>supplement to biofuels</p>
SE	<ul style="list-style-type: none"> Styrene 	<ul style="list-style-type: none"> plastics production production of synthetic rubbers resin production 	<p>tires, suitcases</p>
PGH	<ul style="list-style-type: none"> C5 fraction+ 	<ul style="list-style-type: none"> ingredients for composing motor gasoline and diesel oil 	<p>polycarbonate windows, nylon glycols</p>

Final Model 3D *



**area 20 ha – 28 football pitch*

ISBL Milestones



Olefins III in numbers (expected range ISBL)

CHT currently employs an average of 2,000 workers and approximately 600 supervisory and administrative staff on the construction site; the remaining number of people are workers in workshops for the prefabrication of steel structures and pipelines.



Foundation piles
19 000 pcs.



Static and pressure
devices
~800 pcs.



Electric and control
cables
3 807 km



Structural concrete
155 000 m³



Pumps and
Compressors
~500 pcs.



Process Instruments
17 500 pcs.



Steel structure
37 000 t



Aboveground and
underground pipelines
941 km



Control and electrical
cabinets,
~900 pcs.

Olefins III in numbers (ISBL)

On a daily basis, construction works are carried out using over 50 cranes.

One of the world's largest MAMMOET cranes - PTC 140-DS, class 3,200 tons, with a lifting capacity of up to 5,000 tons*.

** 100 Leopard_2, Abrams, Tiger tanks*



ISBL – current progress status

Scope	Weight	Actual progress
Engineering	8.44%	98.88%
Procurement / Deliveries	47.88%	77.91%
Construction	38.73%	36,94%
Pre-commissioning	2.15%	0.00%
Technological commissioning	2.00%	0.00%
Commissioning	0.80%	0.00%
Ogółem Projekt ISBL	100.00%	59.96%

Branches	Weight	Actual progress
EW CHT	2.26%	100.00%
Civil and U/g	15.57%	73,76%
Architectire (buildings)	6.07%	37,12%
Steel structure (pref + install)	10.76%	70,54%
Equipment install	11.64%	43,62%
A/g piping (pref + install)	24.73%	24,31%
Electrical	10.92%	0.94%
Instrumentation	9.46%	0.33%
Painting	4.41%	12,61%
Others	4.18%	0,00%

Photos from the construction site

IIQ. 2021



IIQ. 2022



IIIQ. 2022



IQ. 2023







IVQ 2023



Olefins III – scope of work and collection for ISBL



Olefins III – sources of supply



Polish companies

OSBL (Outside Battery Limit)

1. SEEN Technologie / ATREM } *Contract 1,27 billion PLN*
2. Aldesa Construcciones Polska } *Contract 1,97 billion PLN*
3. Polimex Mostostal } *Contract 3,87 billion PLN*
4. Zarmen } *Contract 1 billion PLN*

8,1 billion PLN



In scope of infrastructure, further packages are planned for implementation.

Polish companies

ISBL (Inside Battery Limit)

1.	PEAK	15.	AKOJ	29.	W&L	43.	REMAK	57.	UNIBEP
2.	BARG CENTRUM	16.	NIZBUD	30.	GEO-WIKTOR	44.	CMCS Michał Gustak	58.	JARMAR
3.	BUDINŻ	17.	BM-SPRZĘTBUD	31.	MOSTOSTAL	45.	GC ENERGY	59.	TOTALBUD
4.	ARTEKON	18.	NO PROBLEM	32.	COMBROS Orzechowscy	46.	GFM	60.	TRANS-KOP
5.	GEO-MAPA	19.	GEOLOOK	33.	GEOSURV	47.	TERMIKA	61.	BUDIMEX
6.	GLOBAL COMPANY	20.	KIM WORKS KONSTRUK.STAL.	34.	TAROLBUD	48.	PROFIL Plus	62.	PROGRESS-BUD
7.	JARMAR	21.	MACK-BUD	35.	POLKOL	49.	SELECTA 7	63.	RUSZMIR
8.	POLKOL	22.	MAKOSZ	36.	P.P.U.H. SONOBAD	50.	ORLEN OCHRONA		
9.	SERW Sp. Z o. o.	23.	MONREM	37.	NAVITEST	51.	KAMBUD		
10.	SPEC-KOP	24.	NORD	38.	REVICON CONTAINERS	52.	DZWIGMAR		
11.	SPEC-REM	25.	PROGRES S.NIZIAŁEK	39.	KA-RO	53.	MODULAR		
12.	SPREVAA	26.	RMC Technika Diamentowa	40.	GEO-WEKTOR	54.	MM3		
13.	ZUET ENERGIA	27.	ROMA BUD	41.	GFM Rusztowania	55.	SOLETANCHE		
14.	JAKON	28.	SK TECHNOLOGIE	42.	ARGUS CO. LTD	56.	KELLER		

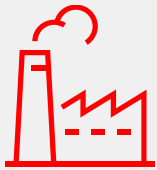
Polish companies

Local companies

1. JARMAR
2. SPEC-KOP
3. SPEC-REM
4. ZUET ENERGIA
5. MOLENDOWSKI
6. P.P.U.H. SONOBAD
7. REVICON CONTAINERS
8. GEO-WEKTOR
9. RUSZMIR
10. ORLEN OCHRONA
11. DZWIGMAR
12. MODULAR SYSTEM
13. MM3
14. PROGRESS-BUD
15. SZAMAŃSKI
16. IZOBET
17. ARBOR
18. TRANSKOP
19. SCANBUD
20. REPRO
21. TRANS-SPRZĘT

Good neighborhood

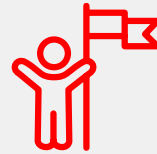
We strive to ensure that the **development and changes** in which we participate **translate into benefits for our entire environment**. Therefore, **we base** the construction of a **new, zero-emission economy on partnership** with all stakeholder groups.



Over 650 new jobs



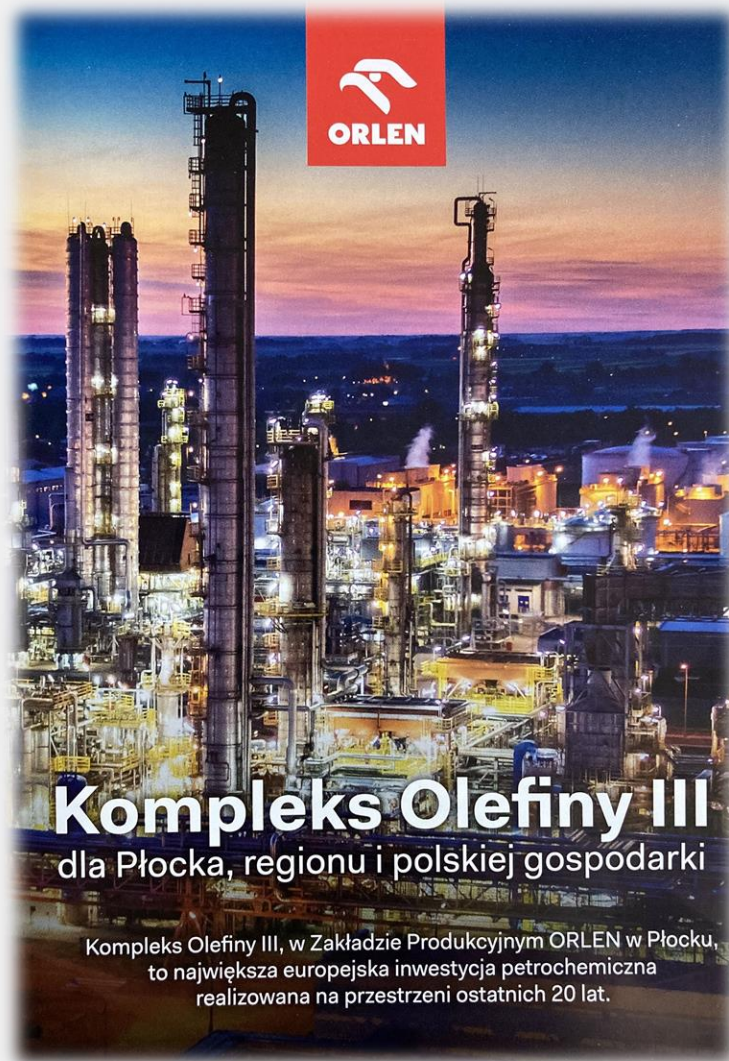
160 milion PLN in additional tax revenues to the local budget annually



Development opportunity for local cooperators



Contractors using local services



Kompleks Olefiny III dla Płocka, regionu i polskiej gospodarki

Kompleks Olefiny III, w Zakładzie Produkcyjnym ORLEN w Płocku, to największa europejska inwestycja petrochemiczna realizowana na przestrzeni ostatnich 20 lat.

Thank you for attention