

Pakistan Offshore Bid Round



2025

Directorate General Petroleum Concessions
Ministry of Energy (Petroleum Division)
Islamabad, Pakistan



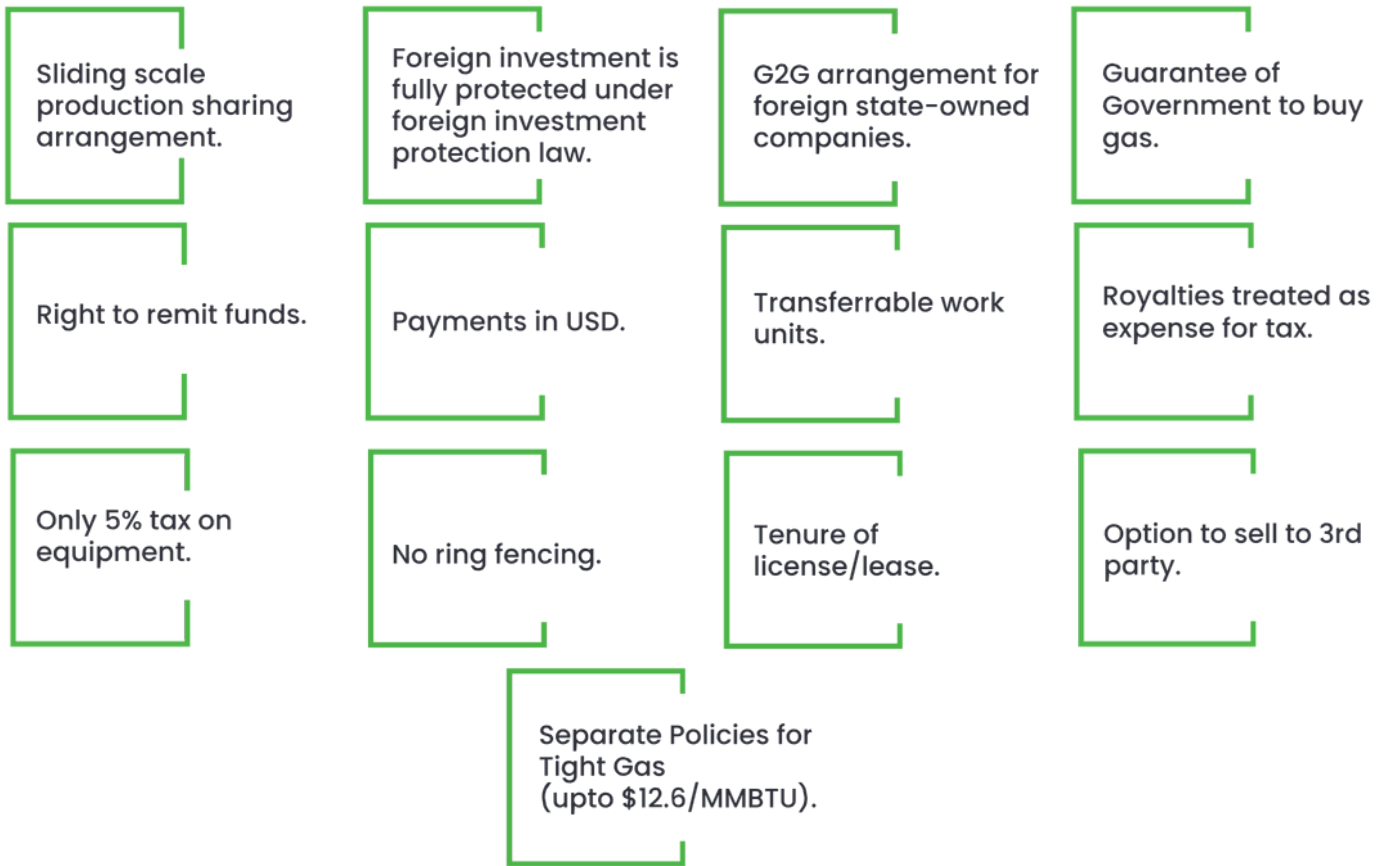
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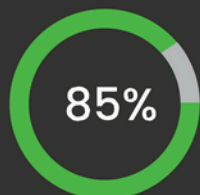
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ATTRACTIVE FISCAL AND REGULATORY POLICY FOR PETROLEUM INVESTORS



PROFIT OIL/
GAS UPTO



COST
RECOVERY

\$7 – \$9

GAS PRICE
USD/MMBTU

4 YRS

HOLIDAY ON
ROYALTY

Bonanza of US\$ 1/MMBTU over and above well head gas price for first three offshore discoveries

PROCEDURE FOR GRANT OF E&P RIGHTS AND REQUIREMENTS



Competitive Bidding

Petroleum Exploration License for entering PCA or PSA



G to G

Petroleum Exploration License for entering PCA or PSA to Strategic Partner Companies



Direct Negotiation

Non-exclusive Reconnaissance Permits for undertaking studies and multi-client surveys



3 years' experience as operator or JV partner



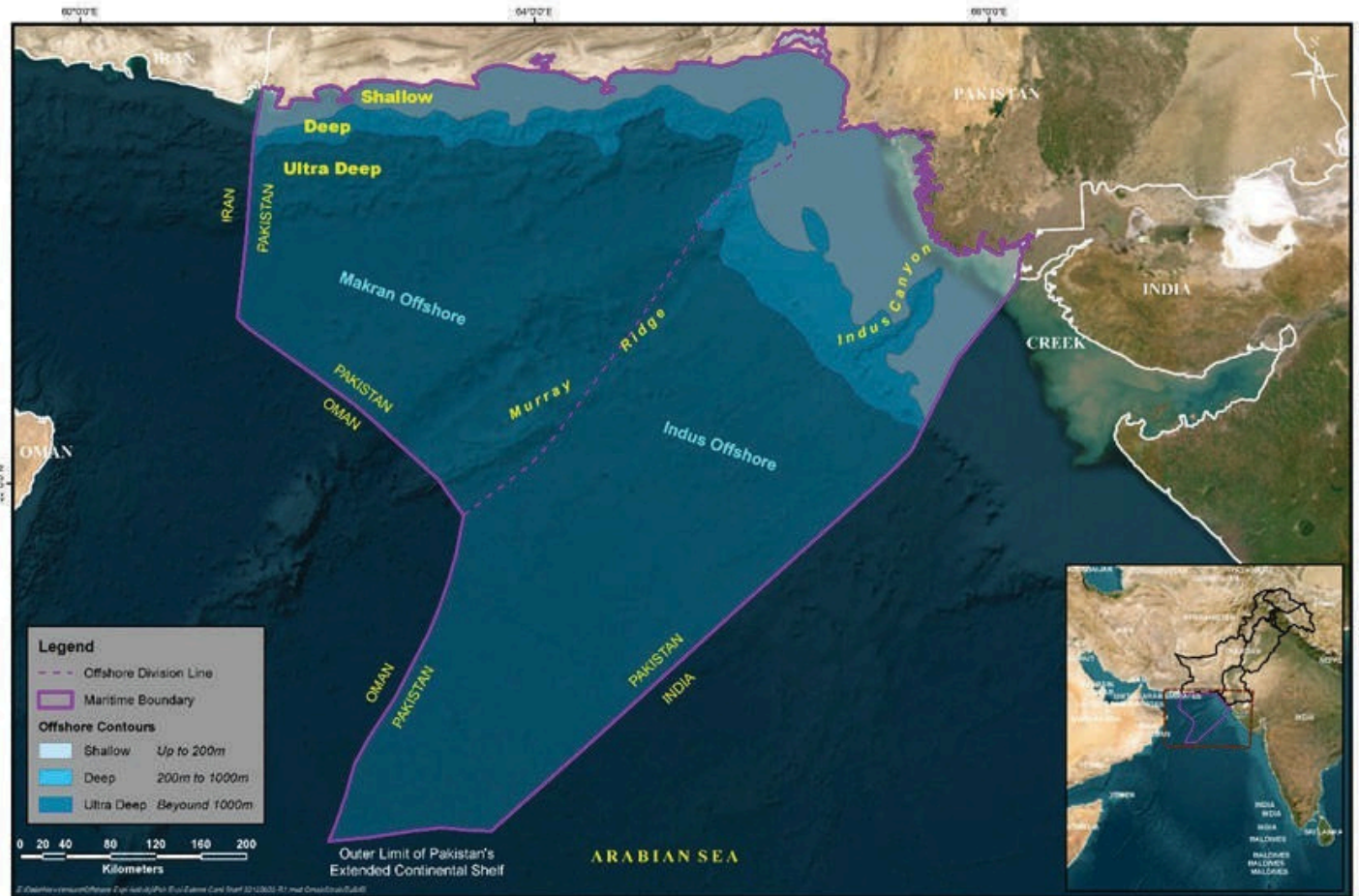
Demonstratable Technical and Financial capability



Within a period not exceeding ninety days after award of a petroleum right, the contractor shall either become incorporated in Pakistan or obtain permission to operate in Pakistan as a registered branch office of a foreign company.



INTRODUCTION



Pakistan's offshore consists of two distinct geological basins namely Indus and Makran, combined both basins encompass an area greater than 282,623 sq. km. The offshore area is further subdivided into shallow, Deep, and Ultra Deep Zones. The Govt of Pakistan (GoP) is offering investment opportunities in Indus Offshore with investor-friendly attractive fiscal terms, revised in 2023.

The Indus Offshore has the **world's second-largest** delta-fan system, after the Ganges in Bengal, with a sediment thickness of up to 10 km. This system is also analogous to some of the world's prolific hydrocarbon-bearing deltas, e.g., Nile, Mahakam, and Niger.

Considering the large size of the Indus offshore basin (157,868 sq. km) well drilled per sq. km area does not reflect the actual exploration potential of the entire basin. Since 2000, only 4 wells have been drilled which indicates the negligible exploration efforts as compared to many other global offshore areas.



BIDDING PROCESS

GoP is offering Blocks for competitive Bidding in two Phases. Roadmap and tentative timelines for bidding process are as below:-



Upcoming Offshore Bidding Blocks			
Sr.	Blocks	Area Sq.Kms	Grid Area
1	2466-10 Bin Qasim South	2021.69	26.00
2	2266-12 Offshore Ultra Deep-A	2055.49	25.87
3	2266-13 Offshore Ultra Deep-B	2451.61	30.85
4	2166-1 Offshore Ultra Deep-C	2475.04	31.01
5	2165-3 Offshore Ultra Deep- D	2444.86	30.63
6	2264-3 Offshore Ultra Deep- E	2429.76	30.44
7	2265-6 Offshore Ultra Deep- F	1373.56	17.36
8	2265-7 Offshore Ultra Deep-G	2048.36	26.00
9	2265-8 Offshore Ultra Deep-H	1976.92	24.98
10	2264-4 Offshore Ultra Deep-I	1859.69	23.50
11	2365-5 Offshore Ultra Deep-J	900.36	11.40
12	2465-6 Offshore Deep-K	2482.33	31.80
13	2266-14 Offshore Deep-A	1774.2	22.33
14	2266-10 Offshore Deep-B	833.78	10.56
15	2366-10 Offshore Deep -C	2482.83	31.69
16	2366-8 Kochi Creek	2450.14	31.32
17	2367-6 Keti Bandar	2464.75	31.47
18	2366-9 Behr Block	2481.44	31.62
19	2267-3 Zarrar	2424.8	30.74
20	2466-9 Gharo Creek	2453.05	31.49

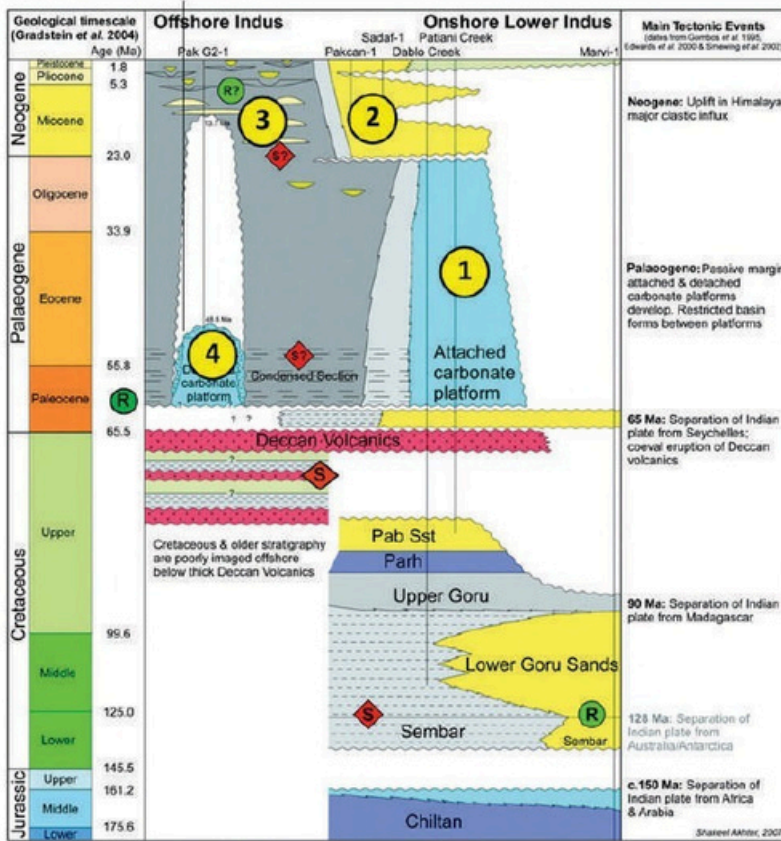
Sr.	Blocks	Area Sq.Kms	Grid Area
21	2265-9 Offshore Ultra Deep-L	2087.59	27.83
22	2265-10 Offshore Ultra Deep-M	1999.10	26.65
23	2265-11 Offshore Ultra Deep-N	1860.21	24.80
24	2465-5 Sapat Bandar	1894.66	24.49
25	2461-5 Gawadar Offshore	2499.05	32.00
26	2462-2 (Makran Offshore Shallow-A)	2479.90	32.19
27	2464-5 (Makran Offshore Shallow-B)	2115.16	27.33
28	2462-3 (Makran Offshore Ultra Deep-I)	2498.72	32.11
29	2362-2 (Makran Offshore Ultra Deep-II)	2487.54	31.90
30	2463-1 (Makran Offshore Ultra Deep-III)	2425.26	31.14
31	2362-1 (Makran Offshore Ultra Deep-IV)	2403.52	30.75
32	2363-1 (Makran Offshore Ultra Deep-V)	2460.41	31.50
33	2361-2 (Makran Offshore Ultra Deep-VI)	2372.93	30.24
34	2362-4 (Makran Offshore Ultra Deep-VII)	2491.60	31.74
35	2362-3 (Makran Offshore Ultra Deep-VIII)	2384.24	30.43
36	2462-4 (Makran Offshore Ultra Deep-IX)	2418.22	31.11
37	2361-1 (Makran Offshore Ultra Deep-X)	2369.38	30.32
38	2366-11 (Offshore Deep-D)	2495.57	31.80
39	2266-15 (Offshore Deep-E)	2440.87	30.91
40	2366-12 (Offshore Deep-F)	2455.08	31.27

Table-1 Statistics of Blocks on offer for Phase-1



PLAYS TYPES

The generalized stratigraphy and various play types of Indus Offshore are shown in below Figure-3



Following potential plays needs to be explored in future exploration campaign:

- 1** Shelf Edge Carbonate Build-up
- 2** Miocene Delta
- 3** Channel Levee System
- 4** Deep Water Carbonate Build-up

Figure-3 Generalized stratigraphy of Indus Offshore

Source Rock

Paleocene

Drilled only in Karachi South-1 well with TOC ranging from 1-3%

Miocene

TOC ranges from 1-3.5% in Indus Marine A-1

300m of source rock interval with TOC Range of 1.26-3.24% drilled in PakCan-1 well

Seal Rock

Miocene & Oligocene Shales

Intra-formational shales of Miocene and Oligocene may act as top seal

EXPLORATION HISTORY

1

As of to date, only 14 wells have been drilled in Indus Offshore

2

11 in Shallow water and 3 in Ultra-deep water

3

6 wells for Paleogene/ Cretaceous Plays and 6 wells for Miocene clastic Play

4

2 wells for carbonates build-ups (Deep water)

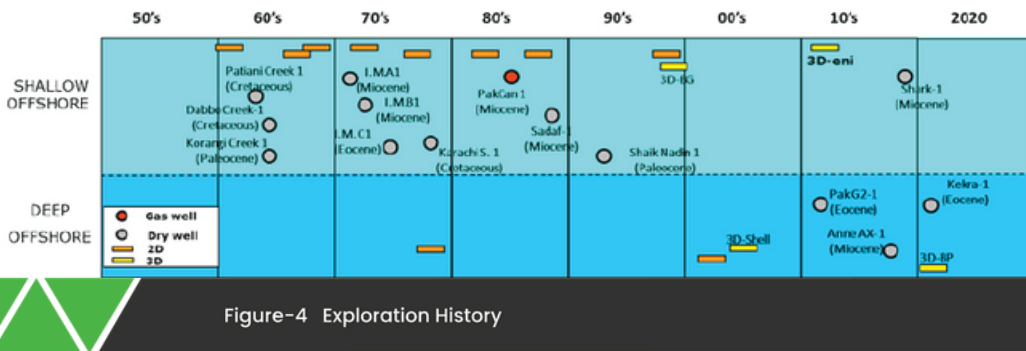


Figure-4 Exploration History

PakCan-1 well drilled in 1985 tested 3.7 MMscfd thermogenic gas, indicating good potential for Miocene clastic sands as source rock & reservoir.

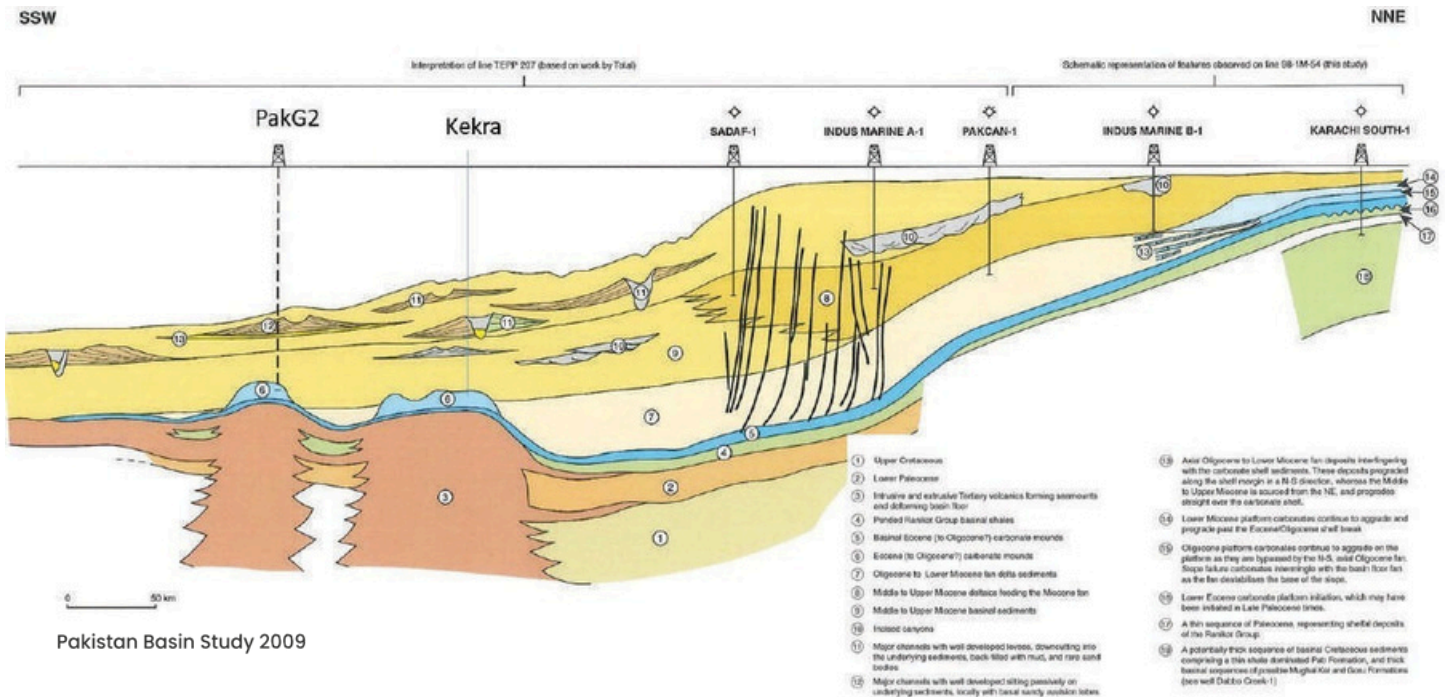


Figure-5 Regional geo-seismic cross section






Regional geo-seismic section (Figure-5) depicts the overall geological setting and extent of various plays being targeted in the past.



TOTAL SEISMIC DATA COVERAGE

So far ~64,000 L.KM 2D and 11950.5 Sq. km 3D seismic data have been acquired in the Indus offshore (Figure-6).

 No. of 3D Seismic 11 surveys	 3D Coverage 11950.5 Sq. Kms	 No. of 2D Lines 1172	 2D Coverage 63913.60 L. Kms
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-  INDUS BASIN OFFSHORE BLOCKS
-  MAKRAN BASIN OFFSHORE BLOCKS
-  2D SEISMIC SURVEY
-  3D SEISMIC SURVEY
-  WELLS DRILLED

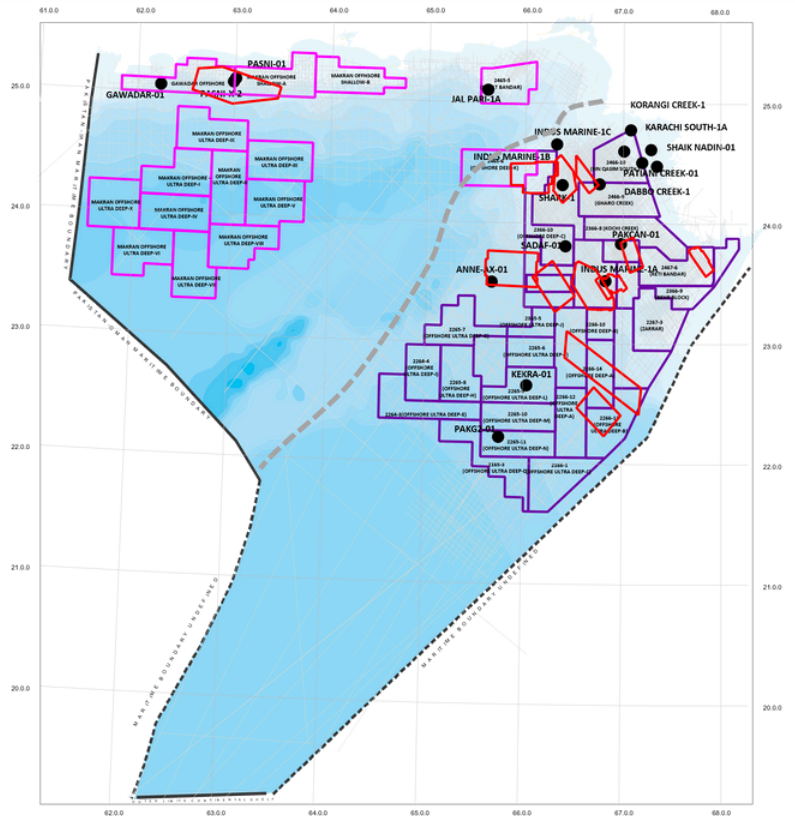







Figure-6 Total Seismic Coverage Maps of Indus Offshore

Opportunities & risks

-  Indus Offshore is the largest and least-explored basin with an estimated resource potential of 10-40 Tcf.
-  Working petroleum system, proven by 3.7 MMscfd flow of gas at Pakcan-1
-  Mainly Gas play with possibility of oil play in the eastern periphery – Marginal oil discovery at KD-1 (India).
-  Significant volume of 2D and 3D seismic is already available
-  Source and Charge are key Play elements that require play-based approach to unlock the HC potential of this huge sedimentary area





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