

# **INPEX's Activities in Kazakhstan Kashagan Project and Human Resource Development**

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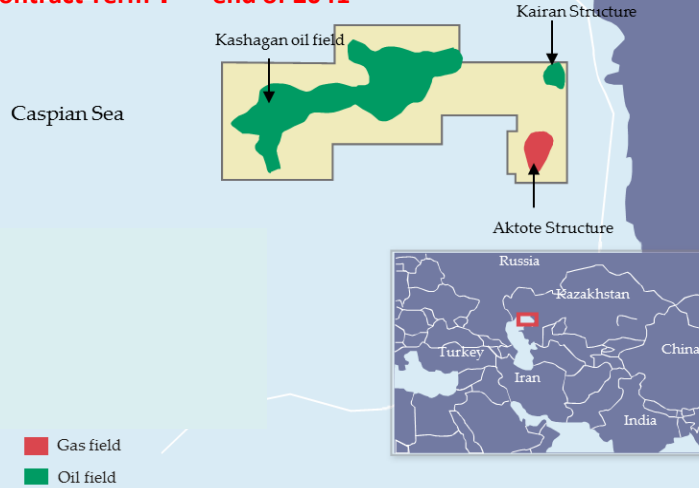
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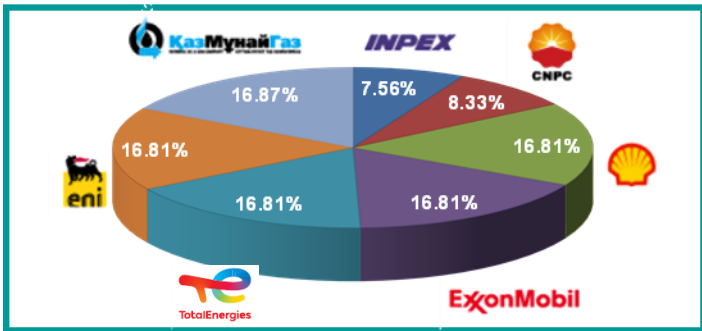


**Reserves : 9~13 billion bbl**  
**Contract Term : ~ end of 2041**



- INPEX has been participating since 1998 (25 years)
- INPEX has invested more than 5 billion USD in the project over the last 25 years
- Office in Astana and Atyrau, more than 10 staffs currently working

## NCS PSA Joint Venture



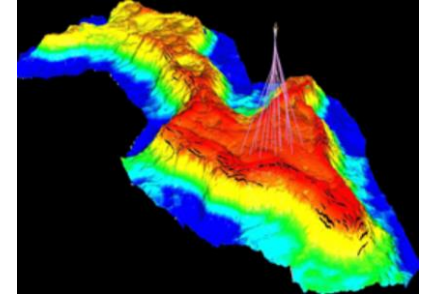
## NCOC(Operator)

**North Caspian Sea Operation Company (NCOC)**

- Nov 1997: RoK and an international consortium of major O&G companies signed North Caspian Sea Production Sharing Agreement (NCSPSA)
- Sep 1998: INPEX joined NCSPSA
- Jul 2000: Kashagan Oil Field was discovered
- Feb 2004: RoK approved Kashagan's Development Plan
- Sep 2013: Oil production started
- (Oct 2013: Production had been suspended)
- Sep 2016: Reopened the first wells
- Oct 2016: Oil shipment has been commenced
- Current: Producing more than 400,000 barrels of oil per day (20-30% of Kazakhstan's total crude oil production)

## I. Huge reserves

- One of the largest reserves discovered in the past 40 years
- High reserves potential (9~13 billion bbl )
- Plans for further production ramp-up through ongoing and future development



## II. Complex technical issues

- Extremely high concentration of H<sub>2</sub>S
  - ✓ Need to control corrosion risk and H<sub>2</sub>S emission
- Extremely high reservoir pressure
  - ✓ Need to control high risks of drilling/construction/production
  - ✓ Need high pressure injection compressors
- Frozen sea in winter / Lowing Sea Level
  - ✓ Challenging logistics/restrictions



## III. Inland Sea

- Limited transportation route



Being one of the largest projects in Kazakhstan with foreign direct investment, the Kashagan Project has a powerful multiplier effect (e.g., creating opportunities for employment) on the economy of the country.

## ❑ Local Content

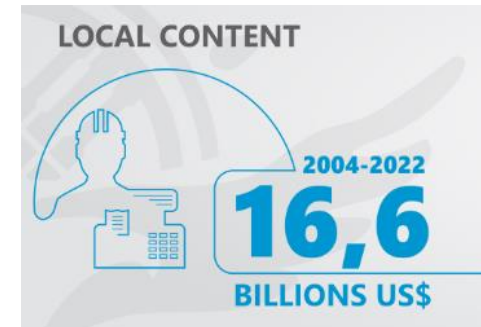
- The Kashagan Project has attracted major investments to the region to develop local people, local suppliers and local infrastructure thus making a significant contribution to the set up and strengthening of new sectors of Kazakhstan's economy.

## ❑ Social and Infrastructure Projects

- Funds for the construction of schools, kindergartens, hospitals etc. in Mangistau Oblast and Atyrau Oblast.

## ❑ Sponsorship & Donations Program (S&D)

- Through S&D Program, the Operator responds directly to the needs and requests of local communities, such as summer Camp for local children, donation of ambulance and beds for hospital and English teaching by British council to junior high school students.



- As a member of the Kashagan Project consortium, INPEX is contributing to stable production and progressing the future growth developments in an effective manner with the Kazakhstan government and other partners.
- We believe that these efforts will contribute to Kazakhstan's economy and to a stable global energy supply.
- As a company promoting cleaner upstream oil and gas operations, we also would like to cooperate with Kazakhstan decarbonization efforts. As a first initiative, we have launched the CCS/CCUS training program for KMG group.

## INPEX Basic Management Policy Towards a Net Zero Carbon Society by 2050

As a pioneer in energy transformation (EX), INPEX will provide a stable supply of diverse and clean energy sources including oil and natural gas, hydrogen and renewable power.

### 5 net zero businesses<sup>1</sup>

Expand each business at an accelerated pace and become recognized as a credible key player

### Oil & gas business

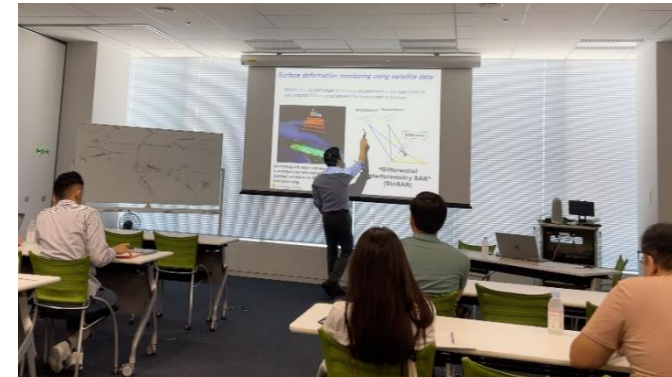
Maintain stable energy supply on the basis of thoroughly making the business cleaner

2050  
Challenge for net zero

Be a company rich in vitality, creativity and diversity, capable of sustainable development

1: ①Hydrogen/ammonia, ②Reduce CO<sub>2</sub> emissions from oil & gas operations (CCUS)<sup>2</sup>, ③Renewable energy, ④Carbon recycling/new business, ⑤Forest conservation  
2: Carbon dioxide Capture, Utilization and Storage

- To support and to contribute to the Republic of Kazakhstan's initiative for decarbonization through human resource development, INPEX provided a custom-made program in Japan.
  - Custom-made program associated with the University of Tokyo which focused on researching/implemented technology of CCS/CCUS
  - Attendance: 5 personnel from KMG group.
  - Visit duration: 17 days from 6th Sep to 22nd Sep.
  - Positive feedbacks from the attendees and INPEX is preparing for 2024 Training Program Scope & Schedule.



# Thank you for your attention!

