



# Company Profile

## Corporate Fact Sheet

### Joint Venture

#### Transaction Summary

- On March 25, 2010, officials from BGP and ION signed the final legal agreements defining a new land seismic equipment joint venture and forming a new and independent company, INOVA®.
- Legally known as INOVA Geophysical Equipment Limited, INOVA offers a comprehensive portfolio of advanced geophysical technologies used in oil and gas exploration to seismic service providers around the world.
- INOVA is owned 51% by BGP, a wholly owned subsidiary of China National Petroleum Corporation (CNPC), and 49% by ION Geophysical Corporation. BGP paid ION \$108 million cash for its stake in the joint venture.
- In addition to forming the joint venture, ION issued to BGP 19.9% of its common stock, making BGP ION's largest individual shareholder with 14.6% ownership in the company.

#### About INOVA

- INOVA's portfolio includes energy source and source control systems, land seismic recording systems, and digital full-wave seismic sensors.
- Products to be manufactured and marketed by INOVA include G3i® HD and Hawk® land acquisition systems, AHV-IV® series, UNIVIB® and UNIVIB® 2 Vibroseis vehicles, Shot Pro™ II and Vib Pro™ source control systems, AccuSeis™ 1C digital sensor and VectorSeis® multicomponent digital sensors.
- Products are available to all land seismic contractors.

#### INOVA Leadership

- In October 2012, INOVA's Board of Directors appointed Glenn Hauer to serve as INOVA's President and Chief Executive Officer. Glenn had served on the executive team since the company's inception as its Senior Vice President of Product Management.
- INOVA's seven-member Board of Directors is comprised of four members appointed by BGP and three members appointed by ION. Board members include ION CEO Brian Hanson and BGP President Wang Tiejun.

#### JV Benefits

- INOVA combines the strengths of its parent companies – ION's history of innovation and BGP's history of operational excellence.
- INOVA's products will be rigorously field tested by parent company BGP, the world's largest land seismic contractor, in diverse operating environments around the globe, to ensure product quality and reliability.
- INOVA will be able to capture economies of scale in the supply chain and in customer support, helping to lower the costs of manufacturing INOVA's land technologies and improve the field experience of all INOVA customers.
- The combined global footprint of ION and BGP will ensure INOVA customers receive the support they require, regardless of deployment location.

#### INOVA Corporate Identity

- The name INOVA was chosen to reflect the company's history of pioneering innovation within the seismic industry by paying homage to predecessor companies I/O and ION.
- INOVA's logo is inspired by the Yin and Yang of Chinese science and philosophy, a symbol used to describe how polar or seemingly contrary forces are interconnected and interdependent in the natural world and how, in turn, they give rise to and



reinforce each other.

- INOVA's introductory tagline, "Together, We Get the Job Done," reflects INOVA's single-minded focus on ensuring its contractor customers are able to deliver on their project commitments to their E&P operator customers.

### **INOVA's Objectives**

INOVA's management team intends to create a unique 'best of both' culture that draws upon the distinctive attributes of its parent owners' skill sets and operating philosophies. INOVA's technical professionals will reflect ION's rich tradition of innovation in land seismic product development, ARAM's philosophy of 'no excuses' customer service, and the practical operating insights BGP has acquired as the world's largest land seismic contractor. This unique blend of insights and capabilities will ensure that INOVA's products remain on the cutting-edge of innovation, though tempered by the practical reality of what contractors require to reliably execute complex seismic programs in the most difficult operating environments. The strategies to achieve this goal can be summarized as follows:

- Build a highly innovative and efficient organization that combines the talents and cultures of the East and the West and the core competencies of BGP and ION
- Develop integrated land systems that combine state-of-art recording, next generation sources, and data and information software that delivers value to both oil companies and contractors
- Leverage the relationship with BGP and ION to further the science of Full Wave Processing and Interpretation
- Position BGP as an early adopter of next generation technology for their commercial benefit while leveraging BGP's operational expertise and field feedback to fully commercialize INOVA's new equipment.

### **Company Executive Roster**

#### **Glenn Hauer – President and CEO**

Mr. Hauer was appointed as the President and CEO in October 2012. Since INOVA's inception, he served on the executive team and led INOVA's research and development efforts as its Senior Vice President of Product Management. Prior to joining INOVA, Mr. Hauer held senior roles at ION Geophysical as Vice President, Marketing for the Next Generation Land Imaging business unit and Technical Marketing Director for ARAM Systems Ltd., a leading provider of cable-based land acquisition systems, where he worked since 1997. Previously, he worked in data processing with Geo-X Systems. Mr. Hauer holds a Bachelor of Science and a Master of Science in Engineering from the University of Waterloo.

#### **Carey Mogdan – COO and Sr. Vice President, Global Manufacturing and Customer Service**

Mr. Mogdan is responsible for INOVA's business development, sales, marketing, manufacturing operations, customer service, repair and rental business. Prior to joining INOVA, he was Vice President at Tarpon Energy Services. Earlier in his career Mr. Mogdan held senior management roles in manufacturing operations and has been responsible for greenfield and operational expansion both domestically and internationally. He holds a Bachelor of Science from the University of Alberta and holds designations from the Canadian Institute of Management, the Project Management Institute and the American Society for Quality.



### **Keith Witt – CFO and Sr. Vice President, Administrative Services**

Mr. Witt is responsible for international finance, human resources, legal and IT for INOVA and served as ION's Finance Director of Sensor, based in the Netherlands. He has held various senior finance positions in the UK and Netherlands and has held several other financial management responsibilities including European Rail Shuttle, ERS and British Salt. Mr. Witt holds a Bachelor of Science in Accounting and Economics from the University of Southampton in the UK and ACMA professional qualification.

### **Jiang Geng – Chief Technology Officer**

Mr. Jiang is responsible for technology development and is the liaison to the China National Program. Before being appointed to this position, he served as Vice President of BGP's Equipment Manufacturing Department, as Director of R&D for BGP's equipment development programs and as Senior Vice President of BGP's Offshore Department and as Chief Engineer in their Special Equipment Department at BGP's headquarters. He also worked as a seismic crew member serving as Deputy Party Chief and Senior Observer with BGP's First Exploration Division. Mr. Jiang holds a Bachelor of Science in Radio Physics from Beijing University.

### **Liang Chaoyang – Sr. Vice President of Finance**

Mr. Liang is responsible for INOVA's finance, tax and accounting/audit activities globally and focuses primarily on the finance operations in China. Before being appointed to this position, he served as Deputy Director, Finance and Control for BGP International since 2004 and as Finance Controller in the overseas branch of BGP. Mr. Liang worked as a crew accountant and finance supervisor between 1995 and 2001. Mr. Liang holds a Master's degree in Professional Accounting from Tsinghua University and a Bachelor's degree in Economics from China's University of Petroleum.

### **Tim Hladik – Sr. Vice President of Product Development**

Mr. Hladik is responsible for overseeing the product development of INOVA's technologies. Prior to joining INOVA, he held various roles in the engineering organizations within Geo-X, which later became ARAM and ION Geophysical. He also held positions as an Electrical Engineer for a global electronics company, Arrow Electronics. In his previous role as Vice President of Engineering – Cable Systems at INOVA, his work was integral in the development of the G3i product and meeting with customers internationally to assess their current and future application requirements. Mr. Hladik holds a Bachelor of Science in Electrical Engineering from the University of Calgary.

### **Fan Huiwen – Sr. Vice President of Manufacturing – China**

Mr. Fan is responsible for the manufacturing operations in China. His career with BGP started in 1997 as an engineer at the Geophysical Equipment Research Institute which led to other positions such as Chief Mechanical Engineer at BGP International and Chief Engineer of BGP's Diversified Business Development in charge of R&D of equipment, new technology, and business development. From 1998 to 2000, he served as Deputy Chief Engineer in BGP's Geophysical Equipment Manufacturing Plant. Mr. Fan holds a Ph.D. in Automotive Engineering from Tsinghua University. He also obtained his master's degree in Thermal Engineering and received a bachelor's degree in Automotive Engineering from Tsinghua University.



#### **Board of Directors**

- Mr. Hao Huimin – Vice President and Chief Geophysicist, BGP
- Mr. Brian Hanson – President and CEO, ION Geophysical Corp.
- Mr. Zheng Huasheng – Vice President, BGP
- Mr. Steve Bate – Sr. Vice President, ION Geophysical Corp.
- Mr. Yu Gang – Director of Procurement, BGP
- Mr. Li Jinyong – General Counsel, BGP
- Ms. Jamey Seel – Executive Vice President, General Counsel and Corporate Secretary, ION Geophysical Corp.

#### **About ION**

Forty years since its founding as Input/Output, the [ION](#) family of companies today provides advanced seismic acquisition equipment, command & control software, planning and imaging services, and seismic data libraries to the global oil & gas industry. ION's offerings allow E&P operators to obtain high resolution images of the subsurface and seismic contractors to acquire geophysical data more efficiently.

#### **About BGP**

A wholly owned subsidiary of [CNPC](#) - China's largest oil & gas company - [BGP](#) is the world's largest onshore geophysical service contractor. BGP services include 2-D, 3-D, 4-D, multicomponent, and VSP seismic acquisition and data processing as well as gravity, magnetic, electro-magnetic and geo-chemical surveys.