

GEV LODGES ADDITIONAL PATENT APPLICATION

HIGHLIGHTS:

- **Additional Patent Application lodged based on new ideas developed during the ABS design approval process for the CNG 200 Optimum ship**
- **Original Basic Optimum Patent Application to be lodged in 37 countries**
- **The filing of patent application follows the successful design approval by ABS announced on 11 January 2019**

Global Energy Ventures Ltd. (ASX: GEV, "GEV" or the "Company"), the leading developer of global integrated compressed natural gas (CNG) projects, is pleased to announce that a new patent application has been filed.

The patent application has been made to protect two ideas that arose during the design work undertaken in support of the American Bureau of Shipping (ABS) full design approval process. The inventor is GEV Canada's Chief Technical Officer, John Fitzpatrick.

The Additional Patent Application encompasses two main ideas

1. To avoid overstressing of the ship's side structure, small spaces are required between the pipes. When the pipes are pressurised, they will try and expand radially but since they are constrained vertically by the forcing beam, they will tend to oval horizontally. If there were no spaces, these horizontal expansions would accumulate and press against the side shell of the ship and cause distortion. In the patent application, GEV is laying claims to the idea of separating the pipes with a small space (methodology) and a mechanism for easily accommodating these spaces during construction (apparatus).
2. The original Basic Optimum Patent application (see description below) taught that shims could be used to take up any gaps that exist between the forcing beam and the pipe. Two improved ways of filling these gaps were developed and GEV has captured these ideas within the patent application.

The Basic Optimum Patent Application was filed in August 2016 and following the completion of the Provisional Patent Application process, GEV will have lodged formal Patent Applications in 37 countries by 12 February 2019.

The Basic Optimum Patent application protects the concept of forcing long straight pipes, in the hold of a ship or on the deck of a barge, together so forcefully that the friction developed between the pipes prevents relative movement between the pipes themselves and between the pipes and the ship or barge. This is the key Intellectual Property (IP) owned by GEV that allows bundles of long-straight pipe to be used as CNG pressure vessels in a ship or on a barge.

Chairman & CEO of GEV, Maurice Brand said: "The Patent process protects GEV's IP following the approval by ABS for the CNG 200 Optimum ship. This is material for GEV as full technical information is made available to ship yards, financiers, regulators and potential GEV customers."

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ABOUT GLOBAL ENERGY VENTURES LTD:

The Company's mission is to create shareholder value through the delivery of integrated CNG solutions to global gas markets. CNG is a well proven solution with technical and commercial advantages along with being safe and environmentally friendly. GEV's CNG 200 Optimum ship received full American Bureau of Shipping (ABS) design approval in January 2019.

GEV is aiming to create shareholder value through:

- Maintaining global leadership in marine CNG shipping;
- Pursuing multiple CNG projects to improve the probability of success;
- Securing access to strategic gas resources that provides for an integrated CNG gas supply solution;
- Offering CNG project stakeholders flexible commercial arrangements;
- Employing world class management and staff that are leaders in their chosen discipline; and
- Maintaining the highest standards of efficiency, safety and environmental responsibility.