

# Petroleum Engineering, Oil and Gas

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**Conversion of methane from stranded gas wells, gas fields and biomass as a stop gap for the electrical grid, reduction in climate change gases and low-cost source to microgrid.**


Growing concerns about climate change and methane emissions by US and Canadian federal, state and provincial governments are attempting to address how to remove methane gas from the atmosphere in an economical way. Methane is generated from a variety of industrial, geologic and biological sources but specifically discussed here are stranded or shut-in gas wells, well flaring, coal mine leakage and coal bed methane well sources. In the US in 2016 201 BCFG was flared or vented with an economic loss of \$522M+. In conjunction with this problem is the decommissioning of over 74 coal-fired and nuclear power plants in the US and Canada. The trend is toward more power plants driven by natural gas and renewable sources excluding hydro. Governmental and industry concern is that the decommissioning of power plants with a capacity of 72GW will not be replaced as quickly as needed by natural gas and renewable sources.

The deregulation of the utility market with deregulation caused by the renewables has created volatility and has caused brown and black outs across the country. In addition, many states in 2018 have enacted significant fines for flaring and leaking gas from industry facilities and wells that cease methane emission and move toward zero emissions. The equipment to process non-marketable or secondary gas has been around for some time. However, simply converting this gas to electricity still creates significant emissions. In addition, converting gas to electricity and selling it to the grid today is more easily done in many historical oil, gas and coal areas. Another result of the volatility in the energy markets is the rapid growth of microgrids. These are self-contained micro-utilities that provide consistent power and lower costs. A specific need for electricity is the Internet industry which has projected electrical demand for “server farms” or “data centres” for data mining to require

50 power plants at 500 megawatts each by 2020. These “server farms” require tremendous amount of electricity to cool and heat the facilities year round which will cause distress in the electric grid in the US and Canada. If all of the “server farms” were combined worldwide they would be equivalent to a country consumption between Italy and Spain. The application of this technology is worldwide. As governments and regulators seek to eliminate natural gas emissions from both natural gas wells, factories and biomass sites the need for technology will grow. As the world economy grows the need for more diverse sources of electricity will be benefited by this technology. The opportunity for the gas industry is clearly present in converting stranded, flared and abandon gas wells into profit centres and minimize negative public view point of these type of operations.

### Speaker Biography

Steven A Tedesco serves as the chief executive officer and president of Running Foxes Petroleum Inc. He was chief executive officer of Admiral Bay Resources Inc., from November 2005 and was its president from February 2005. He was acting as chief financial Officer of Admiral Bay Resources Inc., from September 2010 to June 13, 2018. He serves as the founding president of Atoka Geochemical Services Corp., the parent company of Atoka Coal Labs, a leading service provider to the CBM industry and also serves as the president of Atoka Coal bed Methane Laboratories Corp. He serves as a CBM Consultant of Peabody Coal, Newfield Exploration, Calpine, Berry Petroleum and Wolverine Gas & Oil. He is responsible for geological concepts and has financed the assembly of 12 coal bed methane projects for 1.6 million acres in the Illinois and Western Interior Basin with several private and public companies. He served as chief executive officer and president at Advanced Cannabis Solutions, Inc., until August 14, 2013. He served as the chief executive officer and president of Promap Corporation since November 1987. He was director of Admiral Bay Resources Inc. from March 2, 2004 to June 13, 2018. He served as a director of Promap Corporation since November 1987 and Advanced Cannabis Solutions, Inc., until August 1, 2013. He is the sole author of one technical book and has developed a unique method for calculating gas from mechanical logs, which is patent pending. He holds a master's in science in geology from Southern Illinois University, specializing in coal in 1981.

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