

# 携手开发新能源 合力造福全人类

——在中美新能源科技论坛暨煤层气  
回收利用会议上的发言

阳城县常务副县长 许卫星

尊敬的各位领导、各位专家，女士们、先生们：

非常荣幸能参加今天这次论坛。聆听了各位领导、各位专家的评论，深受启发和鼓舞。新能源开发利用作为节约常规能源、缓解能源危机、保障能源安全的战略性举措，既为大势所趋、势在必行，又有光明前景、大有可为。借此机会，就阳城县新能源开发特别是煤层气回收利用情况，向大家作一介绍。

我们阳城县是中国 100 个重点产煤县之一。全县 74 座煤矿中，高浓度煤层气矿井共有 30 座，集中分布在县域中部和北部。境内探明煤层气储量达到 78 亿方以上。

过去在相当长的时期内，由于装备、技术、生产力水平等诸多因素，我们对煤层气的关注，更多的在于加强瓦斯预防治理、确保煤矿安全生产。近年来，从节能减排、发展循环经济、改善能源结构出发，我们在加强瓦斯综合治理的同时，更加注重变废为宝、化害为利，大力推动煤层气回收利用，首先在资源集中的

区域，铺开实施了一批综合开发利用项目，逐步探索实践了五种模式：一是瓦斯发电。全县建成和在建煤层气发电厂 6 座，总装机容量 4 万千瓦，每年可发电 2.7 亿度、回收利用煤层气 9300 万方。其中总装机 3.3 万千瓦的大宁煤层气发电项目是中国第二大瓦斯发电项目，年可发电 2.3 亿度、回收利用煤层气 8000 万方。英国 MTM 公司计划与我县 6 座煤矿合作，新上 21 台 500KW 发电机组。二是民用燃气。利用亚行贷款建成 2 万方气站，日可供气 6.2 万方，覆盖用户 1.1 万户，目前已实现车载供气 5500 户。全面达效后，每年可利用煤层气 2200 万方。三是加工提纯。北京蓝清创能科技公司开发的屯城煤矿废气环境治理及综合利用示范项目，去年已经奠基开工，建成后每年可回收提纯煤层气 4000 万方。四是液化外销。香港联盛公司投资建设的日产 25 万方煤层气液化项目，每年可利用煤层气 7500 万方，同时也使阳城煤层气的经济半径扩大至 1000 公里。五是管道外输。由萨摩亚美中能源公司开发的地面集中抽采管输项目，每年可向县外供气 1.4 亿方。上述项目全部建成达产后，全县每年回收利用煤层气将达到 4 亿方。

在完成好已开工项目的同时，我们计划近期以西北部高瓦斯矿区为重点，采取招商引资的办法，继续集中实施一批以采煤采气一体化为主导的煤层气开发项目，力争用三至五年时间，使全县新增 1 亿方的生产能力、整体形成 5 亿方的开发利用规模，努力把煤层气产业打造成为阳城新兴的优势产业。

在座的各位领导、各位专家，都是煤层气开发利用方面的权威，欢迎会后到阳城走一走、看一看，提出宝贵的指导意见。同时也欢迎有开发兴趣的朋友们，前往阳城实地考察、投资兴业。我们将以宽松的环境、优惠的政策、一流的服务，全力提供最大便利，与大家一道携手开发新能源、合力造福全人类。

谢谢大家！

Join Hand to Develop New Energy and Make Concerted Efforts  
to Benefit Human Being

Xu Weixing

Executive vice Magistrate of Yangcheng County

Respected leaders and experts, ladies and gentlemen:

It is my great honor to participate in this forum, and I have been deeply inspired and encouraged by the speech of every leader and expert. The development and utilization of new energy, a strategic approach to conserve regular energy, relieve energy crisis and safeguard energy security, have become an inevitable and imperative trend. It enjoys bright future and great potential. Taking this opportunity, I would like to share with you some facts concerning the development of new energy, and in particular the recovery and use of Coal Mine Methane in Yangcheng County.

Yangcheng County is one of the 100 major coal production counties in China. Among 74 coal mines of the County, there are 30 high concentrated CMM coal mines, which are distributed in the central and northern part of the County.

The proved CMM reserve reaches over 7.8 billion M<sup>3</sup>.

During the past long time, CMM was considered a hazard due to equipment, technology and production level. We mainly focused on the prevention and control of methane to ensure coal mine safety. In recent years, with the consideration of saving energy and reducing emission, developing circular economy and improving energy structure, we have paid greater efforts to convert the waste to valuable energy and transfer the hazard to the benefits, and been pushing forward the recovery and use of CMM. We have put in place a number of comprehensive development projects in the energy concentrated areas. Five models have been explored and implemented. One is CMM used for power generation. There are 6 CMM power plants which have either been put into operation or under construction, with total installed capacity of 40,000 KW and annual production of electrical energy of 270 million kilowatt hours. 93 million M<sup>3</sup> CMM can be recovered and used through these projects. Daning CMM power plant, the second largest such project in China, has an installed capacity of 33,000 KW, with annual electricity production of 230 million kilowatt hours. It is capable of recovering and using 80 million M<sup>3</sup> CMM. The UK-based MTM Company is planning to cooperate with 6 coal

mines in Yangcheng County for a project of 21 500KW power generation units. The second model is CMM used for civilian fuel. A 20,000 M<sup>3</sup> gas station has been completed by using ADB loan. The 62,000 M<sup>3</sup> daily CMM supply of the station can cover 11,000 households. At present, the mobile gas supply can benefit 5,500 households. After it is fully put into operation, the station is capable of using 22 million M<sup>3</sup> CMM. The third model is to process and purify CMM. Tuncheng Coal Mine Exhaust Gas Environment Regulation and Comprehensive Use Demonstrating Project, developed by a Beijing-based company had been under construction last year. After it completed, 40 million M<sup>3</sup> CMM can be processed and purified annually. The fourth model is CMM liquefaction and marketing. Hong Kong-based Leason Group invested a 250,000 M<sup>3</sup> CMM liquefaction project, capable of using 75 million M<sup>3</sup> CMM annually. The project can significantly expand Yangcheng CMM commercial market to places of 1,000 km away. The fifth model is CMM sold to pipeline system. The ground intensive CMM extraction project, developed by SAE Energy Inc., is capable of sending 140 million M<sup>3</sup> CMM to other counties. By all the above mentioned projects are completed, the whole County can recover and use 400 million M<sup>3</sup> CMM annually.

While ensuring the smooth progress of the under-going projects, we are choosing the high CMM concentrated mining area in northwest Yangcheng County to introduce investment for a number of CMM development projects featured by integration of coal mining and CMM extraction. We are striving to increase 100 million M<sup>3</sup> of CMM supply, and to expand the County' s CMM production capacity to 500 million M<sup>3</sup> within three to five years. With these efforts, we will make CMM development a new and advantageous industry of Yangcheng County.

The leaders and experts presented today are all veterans in the field of CMM development and use. We sincerely invite everyone to visit Yangcheng after the forum and provide us valuable suggestions. We also welcome friends who are interested in investing in Yangcheng to make the investigation and establish business there. With free and easy economic environment, favorable policy and excellent service, we will spare no efforts to provide convenience. We are willing to join hand with every body to develop new energy and make concerted efforts to benefit human being.

Thank you very much.