CoalSeam Gas Use
Greenhouse Gas Emissions Reduction

Mario Alberto Santillan Gonzalez
### Registered

This interface provides information on the last 15 CDM project activities that have been registered by the CDM Executive Board. CDM project activities registered earlier are accessible through the Project Search interface.

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CMM Coal Mine Methane
Use the gas from the mine

Flares

Minera del Norte
Real Time Monitoring

Real-time monitoring via an Internet connection from Headquarters

The measurement parameters and functions are:
- Gas flow entering the flare
- Temperature of the stack flare
- CH\textsubscript{4} % and Oxygen %
- Data record every 15 minutes
- Check that the measurement systems emit values.
CoalMine Methane

Real Time Monitoring

Mine 5 Flare
“La Esmeralda”

Mine 6 Flare

Mine 7 Flare

Minera del Norte
CMM Coal Mine Methane

Second phase

Power Generation
CMM CoalMine Methane

Use the gas from the mine:

Power Generation

- First stage 1.113 MW
- Second phase 6.95 MW
- Generate 7.95 MW with
- 3 power generators on Mine V
- 2 in Mine VI
- and 2 in Mine VII.
VAM (Ventilation air methane)
Use the gas ventilation from the mine
VAM (Ventilation air methane)
Using the gas extracted in ventilation

Minera del Norte
The VAM Project (Ventilation air methane)

- 4 PDD’s ready for validation at the United Nations.
- Validation Contract (Proposal DNV)
- Generate more than 100 megawatts
CBM - Coalbed Methane
Metano en Mantos de Carbón
The CBM project (Coalbed Methane), involves extracting the gas associated with coal deposits that have not yet been mined.

Objectives:
- Outgas the coal seams before mining and minimize the risk of accidents when operating,
- Besides using the methane is hosted at depths that are currently not mineable.
MINOSA Data

- Gas Prospecting
- Exploratory Wells
- Gas Reserves
Goals of the First Expo Forum Energy Coahuila 2014:

1. Discuss the legal framework for energy reforms.
2. Provide a platform for both Texas and Mexico’s energy sectors to stand together on one platform for mutual understanding and growth.
3. Discover key opportunities for energy-related firms.
4. Analyze the future prospects of the energy sector.
5. Explore the potentials of wealth, which have been opened by new legislations last year, and new reforms to be imposed later this year.
6. View Mexico and Texas as states of one of the most exciting destinations for technology, and as business leaders of the energy sector.
In any case, participants of projects to generate credits such as the U.N.'s Clean Development Mechanisms (CDM) think there will be demand for credits by companies that will prefer to hand them over to the government instead of paying the carbon tax. There are some 210 Mexican projects currently in the CDM pipeline. They could earn more than 200 million credits by 2020, according to UNEP Risoe data.

The carbon tax bill went back to the lower house for a new vote, due to changes made by senators in other parts of the fiscal reform. If approved, it will be sent to the president to be signed into law.
The Mexican Stock Exchange promotes the Mexican Carbon Platform
AHMSA may credit Carbon bonds to mitigate the impact of environmental tax, through the development of emission reduction projects in accordance with the Kyoto Protocol and the launch of Mexico2, will be easier.

- The start of power generation is planned for 2014. first phase, then 2015
- The VAM project is developed in parallel and results are expected in 2014-2015.
- Energy Peña Nieto Reform, it’s ready we have a legal framework clear to develop the natural gas into the coal seam, just actives mines.
- Ahmsa´s has asked for the first contract to utilize the gas (CBM, VAM and CMM) under the NAC. Or CNH and SENER.
Gracias ¡