



HEXA-COVER® OIL & GAS  
REFERENCES

PROVEN TECHNOLOGY SINCE 2004  
MANUFACTURED IN EU, NORTH AMERICA AND  
AUSTRALIA

## Canada

More than 3.000 installations for the Hexa-Cover® Oil & Gas technology has been deployed, for controlling i.e.:

Reduce tank vent emissions such as BTEX Benzene, Toulene, Ethylbenzene and Xylene

Lower tank head space vapour load burdens

Reduce water vapour

Reduce heat loss

Insulation for liquid surfaces

Reduce offensive and carcinogenic BTEX odours

Reduce expensive defoaming chemicals

Reduce energy consumption

## Harold Marcus Terminals, Inc.:

*"In an attempt to reduce fuel odors, and benzene emissions, it was decided to install a Hexa-Cover® Floating Cover system on one of our transmix tanks (gas & diesel mixed), here at the Marcus Terminal in January 2016.*

*The tank chosen is a 4000 bl. tank, measuring 30 feet wide and 32 feet high. Installation was facilitated through a 24 inch manway cover on top of the tank, where by a large nylon bag containing 1.200 individual hexagonal, interlocking "pucks", was suspended over the manway, using a crane, and the tie on the bottom of the bag released, dispensing the 1.200 pucks in the bag, into the tank, in a matter of seconds. This procedure was repeated for three bags, and in the space of an hour and a half, the installation was complete. A box of 24 additional pucks was supplied and added as the covers came together and interlocked on the fluid surface, exposing gaps.*

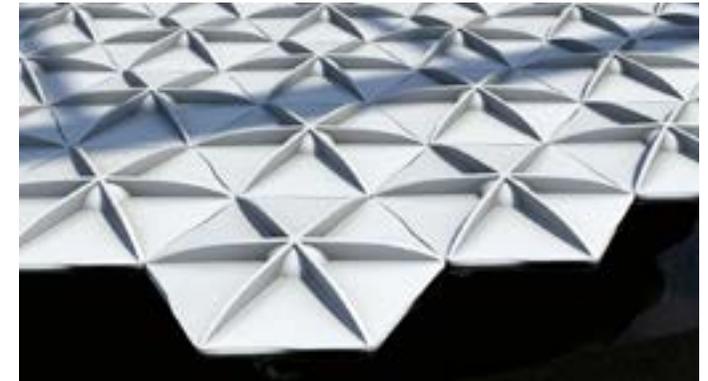
*Since the cover has been installed, it has been observed that odor in the headspace, of the tank has been reduced by an estimated 90%, and around the exterior of the tank, the odor is at times, non-existent.*

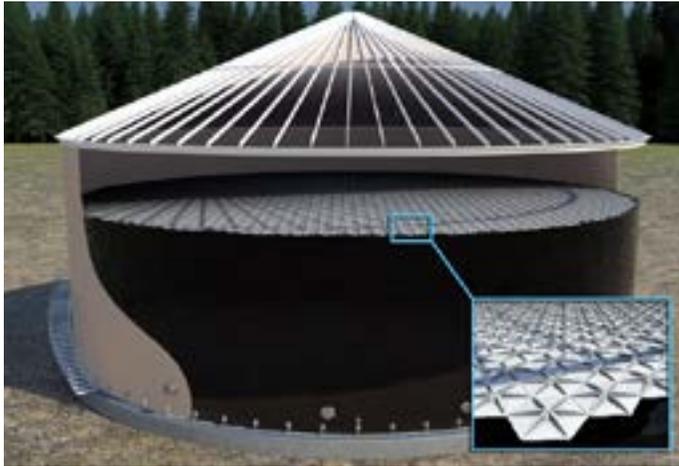
*Testing of benzene emissions in the headspace of the tank, is ongoing, with preliminary results indicating a reduction of 60 %.*

*To date, we are very pleased with the performance, and simplicity of Hexa-Cover® Floating Cover that we have installed on our transmix storage tank"*

John Barnes, Harold Marcus Terminals, Inc.

October 2017 Harold Marcus Terminals covered another tank with Hexa-Cover® Floating Cover





*In order to prevent heat loss and improve cost effectiveness, Canadian Natural and a joint venture partner created and tested the installation of a floating blanket that insulates the oil and contains the heat.*

*This floating blanket consists of several hundred polymer, hexagonal interlocking tiles. Implementation of this floating blanket created a fuel savings of approximately 20 per cent.*

*By consuming less fuel, we expect to avoid over 27kt CO<sub>2</sub>e/year of emissions over the 10-year life of the project.*

*To date, Canadian Natural has installed these floating blankets in over 2,000 heavy oil wells and intends to continue installing them in most of our heavy oil production tanks"*

## **Brazil**

RS region: Wastewater, petrochemical

## **China**

Beijing	Industrial wastewater
Beijing	1.100 m2 industrial wastewater
Beijing	6.400 m2 industrial wastewater
Dongguan	Industrial wastewater
Hebei	Industrial wastewater
Jinzhou	Contaminated wastewater
Nanjing	Industrial wastewater
Tianjin	1.000 m2 Industrial wastewater
Tianjin	3.300 m <sup>2</sup> Wastewater tanks (petrochemical)
Tianjin	4.000 m2 Industrial wastewater
Qilu SinoPec	Contaminated wastewater



## **CNRL - Canadian Natural Resources Ltd**

*"Due to the viscosity of produced heavy oil, we need to heat our storage tanks to 80°C in order to liquefy the oil for transport.*

*Our goal was to reduce the amount of fuel consumed to maintain the temperature in our heavy oil production tanks.*

*The storage tanks are already insulated but a void space exists between the top of the oil and the top of the storage tank where heat rises and escapes. I*

## Chile

Santiago Refinery - 800 m<sup>2</sup> wastewater  
 Santiago Refinery - 2.400 m<sup>2</sup> wastewater  
 BioBio Refinery - 2.500 m<sup>2</sup> wastewater  
 ConCon Refinery - 2.700 m<sup>2</sup> wastewater

## Denmark

DK-4400 Refinery (VOC - benzene, toluene)

## Finland

FIN99250 CCD (counter current decantation)

## France

F-13165 Diesel tank  
 F-36670 Wastewater, VOC  
 F-44480 Industrial process water (Oil & Gas)  
 F-93155 Collection pit (diesel, gasoline etc)

## Germany

D-06237 Refinery 2.300 m<sup>2</sup> water storage

## Greece

GR-8648 Wastewater (seawater / oil mix)

## Italy

I-95121 Refinery, water storage facility



## Jordan

7.900 m<sup>2</sup> wastewater

## Kazakhstan

Aktogay 4.000 m<sup>2</sup> PLS reservoir

Almaty 1.650 m<sup>2</sup> PLS reservoir



## KSA

4.800 m<sup>2</sup> wastewater facility (Odor / emission)  
1.100 m<sup>2</sup> wastewater pond 60-90°C (VOC etc)  
4.350 m<sup>2</sup> wastewater

## Oman

4.200 m<sup>2</sup> Industrial wastewater, Petrochemical)

## Qatar

4.160 m<sup>2</sup> Industrial wastewater, Petrochemical)





Effective coverage for all fluids

Water scarcity: a growing problem!

Hexa-Cover® helps Australia reduce evaporation by 73%.

Additionally, Hexa-Cover® eliminates algae growth and prevents unwanted birds and ducks from landing on the covered water.

All to the benefit of the environment and human beings.

[Link, article](#)

Government of Western Australia



*"Made from 100% recycled plastic, the covers were shown to reduce evaporation by 73%, saving more than 1.6 million liters of drinking water, during a recent trial involving researchers from the University of Western Australia in Wellstead, 90km east of Albany."*

## More Water Better Water

[Link, video](#)

ABC News



Another dam well underway:



## Norway

N-5954: Wastewater / crude oil

## Spain

E-08272: Hazardous wastewater

E-43110: Styrene

## Sweden

S-453 92: Industrial wastewater (petrochemical)

## Switzerland

CH 1868: Water storage facility

CH 8353: Water storage facility

## UK

DA11: 2 x Industrial water storage (1.500 m<sup>2</sup>)

EH27: industrial wastewater

## USA

Clarksburg, 36036 WV: 2.315m<sup>2</sup> Frac Water Tank

Colorado: 5 x Frac Water Tanks

Dallas, 26301 WV: 2.315 m<sup>2</sup> Frac Water Tank

Pacheco, CA: 1.800 m<sup>2</sup> water reservoir





**For more information**

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