



# Korniza Rregullatore per Depozitimin e Gazit Natyror ne Pensilvani dhe Tarifat Zhvillimore per Depozitimin e Gazit Natyror

14 maj 2008

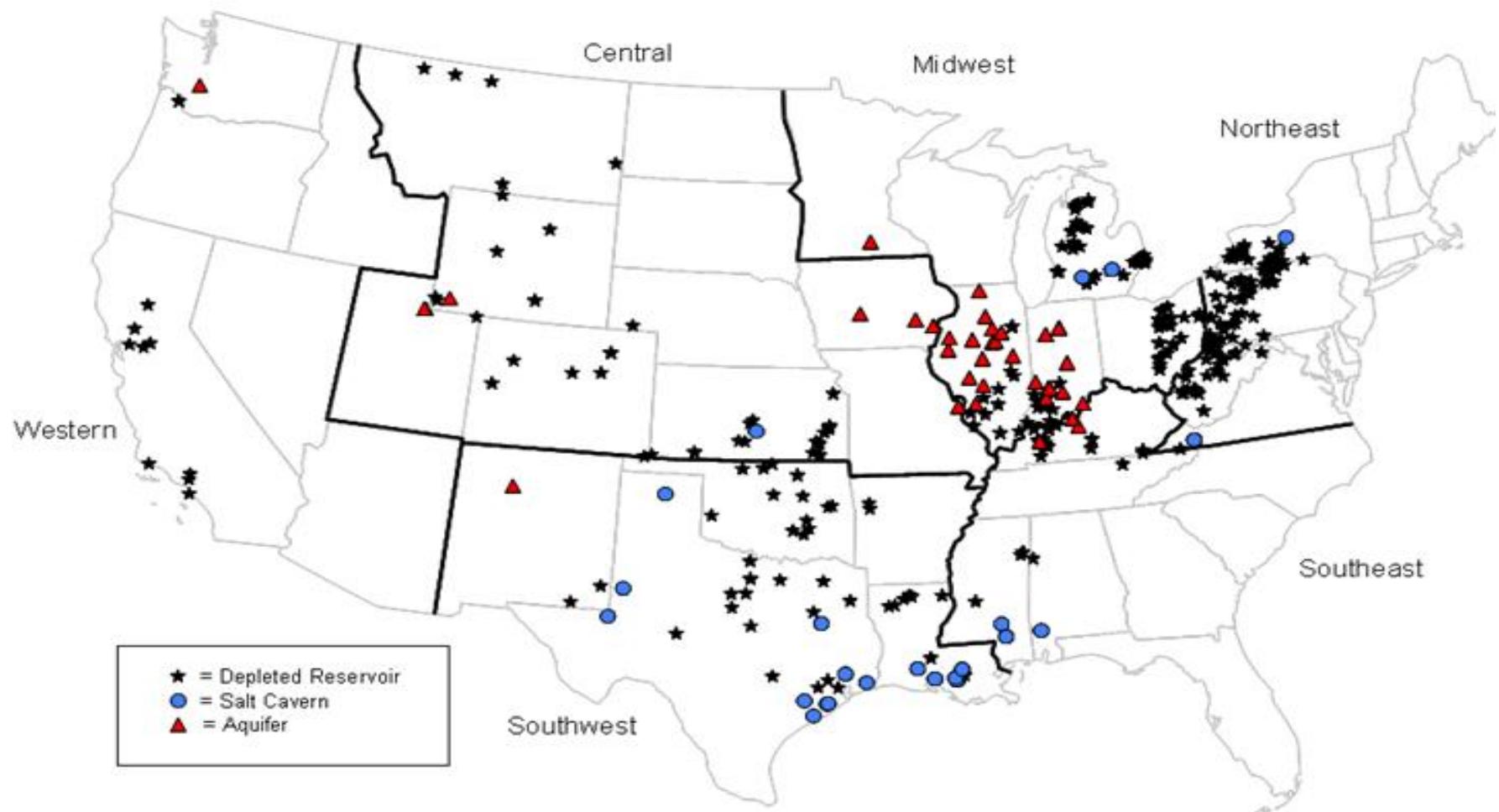
Prezantuar nga:

Paul Metro

Krye Inxhinier per Masat e Sigurise se Gazit

Komisioni i Ndermarrjeve te Sherbimeve Publike i Pensilvanise

# Depozitat ne SHBA



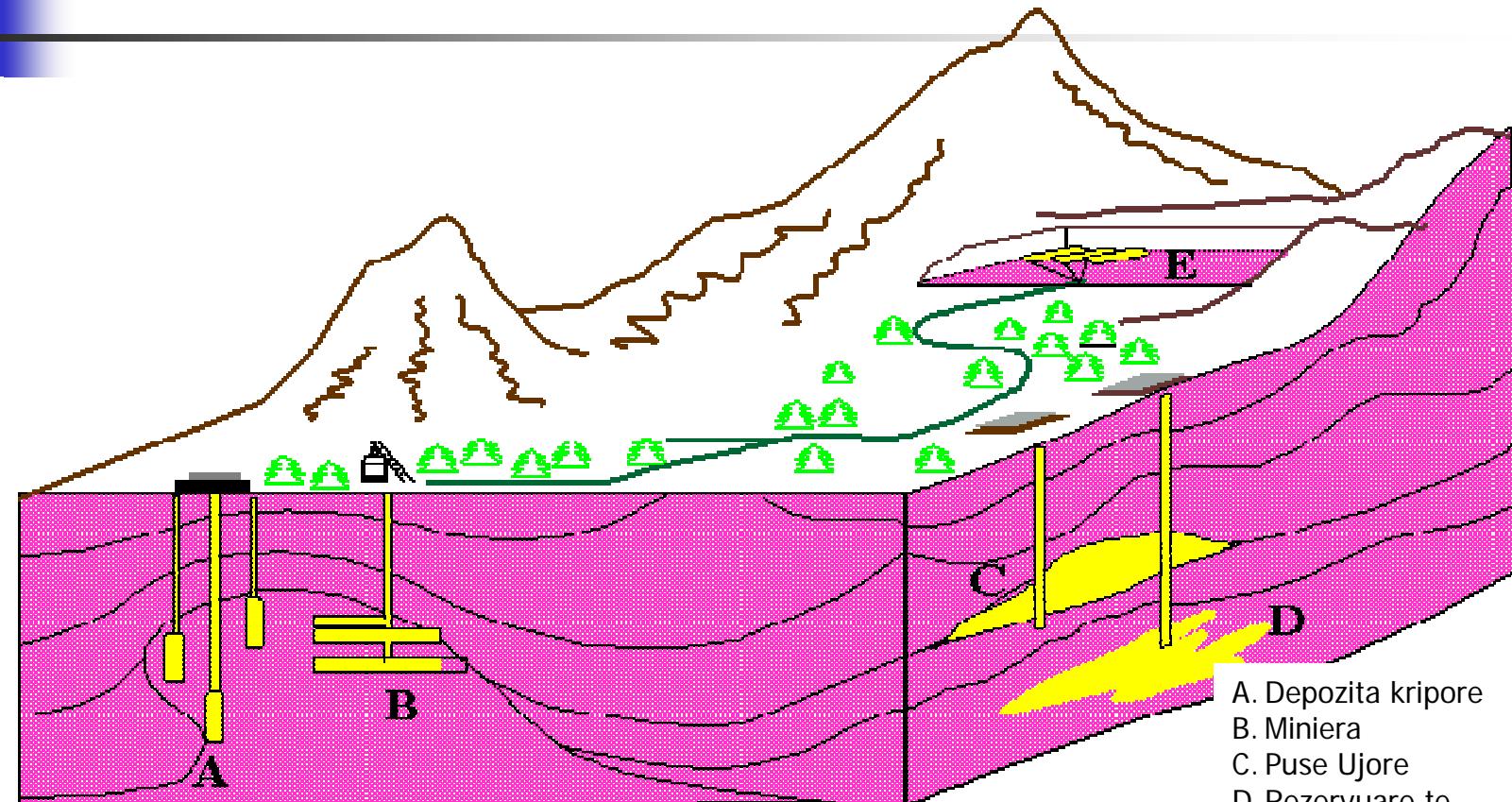
Source: Energy Information Administration, Office of Oil & Gas, Natural Gas Division Gas, Gas Transportation Information System



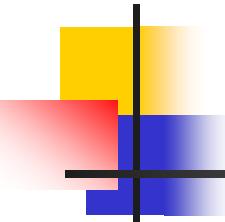
# Rregullativa per Depozitat

- Depozita e nendheshme e gazit natyror permban rrjetin e tubacionit, kompanite e shperndarjes lokale, prodhuesit dhe transportuesit e gypave si edhe pajisjet per inventarizim, rezervat per nevoja stinore dhe gaz natyror te nevojshem per te shmangur crregullimet midis marrjes dhe shperndarjes ne kete rrjet.
- Ekzistojne tri lloje kryesore te depozitave te nendheshme ne Shtetet e Bashkuara sot. Keto jane:
  - rezervuare te shterura te gazit natyror ose naftes,
  - xhepa ujore, ose
  - depozita kripe.
- Ne disa raste jane perdorur tunelet e minierave. Pjesa derrmuese e depove te nendheshme, 81 per qind ne fillim te viti 2007, u krijuan prej rezervuareve ne zona te shterura te gazit natyror qe mund te pershtateshin me lehtesi ne depo, dhe qe gjendeshin prane konsumatoreve dhe sistemeve ekzistuese te gypave te gazit.

I Figura 1. Llojet e Hapesirave Depozituese te Nendheshme te Gazit Natyror

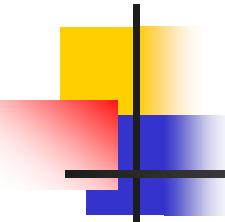


Source: PB-KBB, Inc.



# Depozita

- Ne disa rajone, sic eshte pjesa qendrore e Shteteve te Bashkuara, depozita natyrore te ujit me cilesi te pershatashme jane shnderruar ne depozita te gazit natyror. Nje depozite ujore mund te kthehet ne depozite te gazit natyror nese perberja sedentare qe mbart ujin eshte mbuluar nga nje shtrese e papenetrueshme guri. Ndonese gjeologjia e depozitimeve te ujit eshte e ngjashme me fushat e shteruara te prodhimit, perdorimi i tyre per gaz natyror zakonisht kerkon baze gazi me te gjere dhe monitorim me rigoroz te teknikave te nxjerrjes dhe pasurimit.
- Qysh nga vitet 1980, numri i vendndodhjeve te depozitave te nendheshme te kripes ne Shtetet e Bashkuara eshte rritur me shpejtesi, kryesisht per shkak te cilesive te vecanta dhe shkalles se futjes ne perdorim (mbetjet). Shumica e depozitave te nendheshme te kripes jane ndertuar ne formacione tipike kripore, te cilat gjendjen ne pjesen jugore te Shteteve te Bashkuara qe shtrihet per gjate Gjirit te Meksikes. Depozita kripore gjithashtu kane dale nga shtresime te hershme kripe ne pjesen verilindore, qendrore, dhe perendimore te Amerikes, por numri i tyre ka mbetur i kufizuar per shkak te mungeses se nje tekniqe gjeologjike te pershatashme. Ngritura e depozitave eshte me e kushtueshme sesa konvertimi i zonave te shteruara, nese llogariten dollarret e shpenzuar per nje mijë kembe kubik te kapacitetit te gazit te perdorshem, por mundesia per te kryer disa cikle shpimi dhe perfthimi per vit e zvogelon koston per njesi ne nje mijë kembe kubik te gazit te perfthuar dhe te pasuruar.



# Depozita

- **Rajoni Verilindor**
- Shtetet e Pensilvanise dhe Nju Jorkut jane rruge kalimet kryesore per shperndarjen e gazit perbrenda rajonit dhe perfshijne territoret e sherbimeve kyce te kompanise Transmisioni Dominion dhe Rrjeti i Kompanise Transmisioni Kolumbia Gaz. Keto shtete se bashku me shtetin e Virxhinia-s Perendimore kane kapacitetet me te medha te depozitave te nendheshme ne rajon. Depozita eshte faktor kryesor si per sigurimin e nevojave per rezerve, ashtu edhe per ruajtjen e balances ne sistemin e transmetimit qe ekziston ne rajon. Me shume kapacitete transmetuese dalin sesa hyjne ne keto shtete, cka pasqyron aftesite depozituese te tyre si burime rezervash sezonale per shtetet qe ndodhen ne pjesen veriore dhe lindore.

Operatoret me te medhenj te depozitave ne Verilindje jane njeherit edhe tri kompanite me te medha te transmisionit ne rajon. Kompania Transmisioni Kolumbia Gaz disponon 29 depozita (prej 107 ne krejt rajonin), me kapacetet depozitimi te gazit punues deri me 140 (Miliarde kembe kubik) Bcf (prej nje totali prej 767 Bcf). Ndonese Kompania Transmisioni Dominion perdon vetem 14, depozitat e saj kane kapacitet me te medha te gazit punues ne rajon, 409 Bcf. Kompania Kombetare e Lendes Djegese disponon numrin me te madh te depozitave ne rajon, 31, por hapesirat depozituese jane vetem te afta te depozitojne deri 114 Bcf te gazit punues.

# Kapacitet Depozituese ne Verilindje

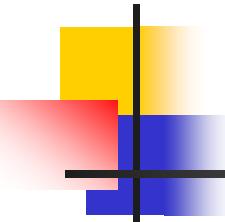
Northeast Region Summary of Underground Natural Gas Storage, by State & Reservoir Type, 2006

State	Depleted Gas/Oil Fields			Aquifer Storage			Salt Cavern Storage			Total		
	Sites	Working Gas Capacity (Bcf)	Daily Withdrawal Capability (MMcf)	Sites	Working Gas Capacity (Bcf)	Daily Withdrawal Capability (MMcf)	Sites	Working Gas Capacity (Bcf)	Daily Withdrawal Capability (MMcf)	Sites	Working Gas Capacity (Bcf)	Daily Withdrawal Capability (MMcf)
<i>Connecticut</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Delaware</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maine</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Maryland</i>	1	17	400	0	0	0	0	0	0	1	17	400
<i>Massachusetts</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>New Hampshire</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>New Jersey</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>New York</i>	23	116	1,840	0	0	0	1	2	145	24	118	1,985
<i>Pennsylvania</i>	49	405	8,635	0	0	0	0	0	0	49	405	8,635
<i>Rhode Island</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vermont</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Virginia</i>	1	1	22	0	0	0	2	4	325	3	5	347
<i>West Virginia</i>	31	244	3,701	0	0	0	0	0	0	31	244	3,701
<b>Active Sites</b>	<b>105</b>	<b>783</b>	<b>14,598</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>6</b>	<b>470</b>	<b>108</b>	<b>789</b>	<b>15,068</b>
(Marginal Sites) <sup>1</sup>	(6)	(29)	(32)	(0)	(0)	(0)	(0)	(0)	(0)	(6)	(29)	(32)
<b>Percent of U.S.</b>	<b>33</b>	<b>23</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>10</b>	<b>3</b>	<b>3</b>	<b>27</b>	<b>19</b>	<b>18</b>

<sup>1</sup> Marginal sites: Very little or no activity reported during the 2006 calendar year. Marginal sites included in State/Regional totals.

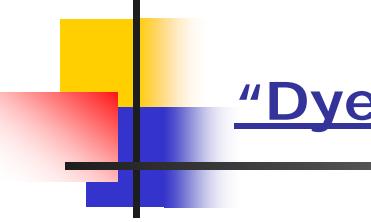
Note: Bcf = Billion cubic feet. MMcf = Million cubic feet. States with no underground natural gas storage are shown in *italics*.

Source: Energy Information Administration, GaTran Natural Gas Transportation Information System, Underground Natural Gas Storage Database.



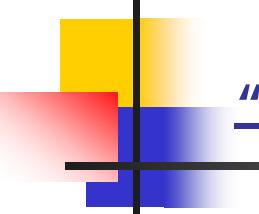
# Depozita

- E ardhmja Gazit Natyror shndrit, qyshkur shpallet projekti i depozitimit integrues nga Kompania Dominion
- **Kombinon depozita kripore te reja me rezervuare te zbratza**
- **I shton edhe 50 Bcf kapacitetit depozitues te kompanise Dominion**
- **Do te sjelle hapjen e 75-100 vendeve te reja pune**
- RICHMOND, Va. – Diten e marte Dominion (NYSE: D) shpalli Projektin e Depozitimit Integrues, cka do ta zgjeroje kapacitetin depozitues te gazit natyror deri ne 50 miliarde kembe kubik (Bcf). Projekti integron perqindjen e larte te depozitimit ne formacione kripore me kapacite te larta te rezervuareve te zbratza. Si rezultat, krijohet nje teknike eficiente dhe praktike qe ofron tarifa kompetitive dhe elastike te depozitimit te gazit per klientet ne tregun e hapesires verilindore dhe asaj mes-Atlantike. Faza e pare do shtoje 11.2 Bcf depozitimit te gazit te ri natyror. Ndertimi eshte planifikuar te filloje ne 2009, kur do perqendrohet puna ne dy depozita kripore qe do t'i shtohen numrit ekzistues te rezervuareve te zbratza. Depozitat kripore do jene ne qarkun Tioga, Pensilvani.



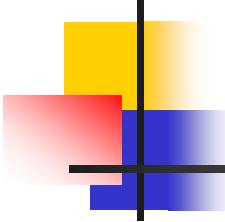
## **"Dyer te Hapura" per Kapacitetet Depozituese**

Perpara vitit 1994, kompanite ndershteterore te transmisionit, nen juridikcionin e FERC-ut, ishin pronare te gazit qe qarkullonte ne rrjetin e tyre, perfshire gazin ne hapesirat depozituese, dhe gjithashtu kishin kontroll ekskluziv mbi kapacitetet dhe perdorimin e ketyre depozitave. Me venien ne zbatim te Urdhereses 636 te FERC-ut, kompanite e transmisionit nen kete juridikcion duhet te lejonin politiken ‘e dyerve te hapura’ ne hapesirat e tyre depozituese. Dmth, pjesa me e madhe e kapacitetit te gazit te perdorshem (pervec sasise se nevojshme te rezervuar per funksionimin e rrjetit, per mbarevajtjen e sistemit dhe balacimin e ngarkeses se rrjetit) ne secilen hapesire depozite duhet te jetë ne dispozicion per t'u kontraktuar nga nje pale e trete pa kurrfare diskriminimi.



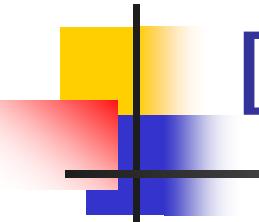
## **"Dyer te Hapura" per Kapacitetet Depozituese**

- Sot, pervec hapesirave depozituese ndershtetore, shume hapesira te tjera ne pronesi ose te kontraktuara nga LDC te medha, nga transmisione ndershteterore dhe kontraktore te pavarur zbatojne politiken e 'dyerve te hapura', vecanerisht ne hapesirat depozituese te lidhura me tregjet e gazit natyror. 'Dyert e hapura' kane mundesuar perdorimin e gazit jo vetem si artikull inventar rezerve ose si rezerve plotesuese sezonale. Per shembull, klientet dhe palet e treta mund te marrin ose te sjellin gaz ne hapesiren depozituese (sipas aftesive normative perkatese ose kufizimeve tarifore) nderkohe qe ndryshimet ne nivelet e cmimeve paraqesin mundesi arbitrazhi. Me tej, depozitimi kombinohet me nje numer te ndryshueshem te instrumenteve financiare (psh. variante dhe alternativa kontrate, kembime, etj.) nepermjet rrugeve nga me te komplikuarat dhe me origjinalet, me qellim qe te nxirret perfitim nga kushtet e tregut. Duke pasqyruar kete ndryshim te fokusit ne industrine e depozitimit te gazit natyror ne vitet e fundit, rritja me e madhe ne mundesite e nxjerries se perditshme eshte shenuar ne perqindjen e larte te hapesirave te depozitimit, qe perfshin rezervuaret e depove te kripes si edhe disa rezervuare te zbrasta nafte dhe gazi. Keto hapesira mund ta riperdorin inventarin e vet : ta shterojne krejtesisht dhe rimbushin gazin e perdonur per nevoja praktike (ose anasjelltas) me shpejt sesa cdo lloj tjeter hapesire depozituese; ky eshte tipar i pelqyeshem per nevojat operative te ndryshueshme te perdonuesve te sotem te hapesirave depozituese. Qysh prej vitit 1993, mundesite e zbrazjes se perditshme nga perqindja e larte e depozitave kriporë eshte ngritur ne menyre te ndjeshme. Megjithate, edhe hapesirat depozituese konvencionale vazhdojne te jene shume te rendesishme per industrine.



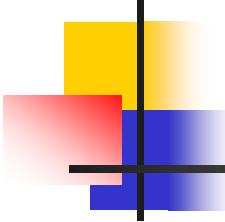
# Depozitimi Pensilvania

- Disa ndermarrje publike te gazit natyror ne Pensilvanine perendimore jane pronare te hapesirave depozituese ose marrin me qira nje pjese te tyre
- Ndermarrjet publike te gazit ne Pensilvanine lindore kontraktojne rrjetin ndershteteror per kapacitete depozituese



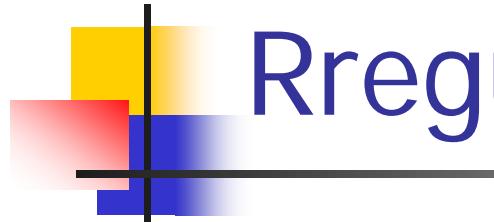
# Depozitimi Pensilvani

- Per sherbimet publike te Pensilvanise nuk ekzistojne procedura licensimi per fushat e depozitimit
- Organi rregulator eshte FERC
- Hapesira depozituese u ndane nga ndermarrjet e shperndarjes ne vitin 2000
- Depozitimi eshte tashme nje komponent i kostos ne koston e shtuar te gazit



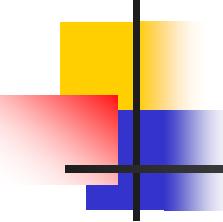
# Depozitimi Pensilvani

- Perdorimi i depozitave dhe kontratat shqyrtohen nga Komisioni per cdo vit
- Rregullativa e Komisionit per burimet me koston me te ulet nxit perdorimin e hapesirave depozituese qe ulin koston e gazit
- Kërkesat per prokurimin me kosto me te ulet



# Rregullativi - Statuti

- **§ 1302. Tarifat; dorezimi i dokumentacionit dhe inspektimi.** Ne baze te rregullatives se aprovar nga Komisioni, ndermarrja e sherbimit publik do te paraqese para ketij komisioni, ne kohen dhe metoden e percaktuar nga komisioni, tarifat ku jepen krejt cmimet e vendosura dhe te inkasuara ose te detyrueshme perbrenda juridiksionit te komisionit. Tarifat e ndermarrjes se sherbimit publik qe gjithashtu varen nga juridiksioni i nje organi rregulator federal do te korrespondojne, ne masen qe mund te jete e praktikueshme, me formen e percaktuar nga ky organ rregulator federal. Secila ndermarrje e sherbimit publik do t'i kete kopjet e ketyre tarifave ne dispozicion per publikun ne perputhje me dispozitat dhe rregulloret e percaktuara nga komisioni. Nje kopje e dokumentacionit te tarifave do te jete ne dispozicion, ne nje vend dhe per nje kohe te caktuar dhe te arsyeshme per krejt zonen e sherbimeve publike, me qellim qe te inspektohet dhe shqyrtohet nga konsumatoret, nese paraqitet kerkesa prane ndermarrjes publike.



# Depozitimi Pensilvani

- Tarifat e ndermarrjeve publike te gazit ne Pensilvani bazohen ne koston e sherbimit
- p.sh. kostoja e bazuar ne klasifikimin e konsumatorit (komercial, industrial, shtepiak)
- Shqyrtimi vjetor i procedurave te kostos se gazit

**RATE ST-SW**  
**STORAGE SERVICE - SCHEDULED WITHDRAWAL**

**AVAILABILITY**

Storage service is available to transportation ratepayers under the following conditions:

(C)

- a. Rate ST-SW is available for overdeliveries in excess of 3.5 percent, subject to a maximum volume limitation in storage at any one time, that will be based on the ratepayer's average monthly usage and on monthly volumetric injection levels set forth below.
- b. Monthly limitations on scheduled injection levels into storage are as follows:

April:	2 percent of average monthly usage
May:	15 percent of average monthly usage
June-September:	20 percent of available monthly usage
October:	15 percent of average monthly usage
- c. The ratepayer must withdraw all gas in storage under Rate ST-SW during a consecutive four-month period, beginning either November 1, December 1, or January 1, whichever date the ratepayer selects. One-quarter (1/4) of the gas in storage when scheduled withdrawal begins will be withdrawn each month. For withdrawals other than during the four-month period of scheduled withdrawals, the ratepayer must request withdrawal of gas stored under Rate ST-SW by the 25th of the month. If the ratepayer does not notify the Company that gas stored under Rate ST-SW should be withdrawn, and the ratepayer has not delivered sufficient quantities of gas during the month to meet that month's requirements, the Company will automatically withdraw any gas stored under Rate ST. If the ratepayer has no gas stored under Rate ST, the ratepayer will be subject to the balancing provisions of Rate GS-T or Rate T.
- d. Storage of gas by a transportation ratepayer other than described in A., B., and C. above will be at the Company's sole discretion.

## **RULES AND DELIVERY TERMS**

### **Deliveries Into and From Storage**

Deliveries to the Company in excess of the 3.5 percent banking level will be injected into storage under Rate ST unless the ratepayer requests that the gas be stored under Rate ST-SW by the 25th of the month. If the monthly limits on injection levels are exceeded, then the Company may purchase these volumes under the balancing provisions in Rate GS-T or Rate T.

Unless otherwise agreed to by the Company, the ratepayer's storage gas shall be withdrawn from storage in accordance with a Storage Withdrawal Schedule, consistent with the terms of paragraph C. above, provided to the Company by the ratepayer prior to October 15. If the ratepayer does not notify the Company by October 15 of its storage withdrawal schedule, then withdrawals will begin January 1.

### **STORAGE CHARGE**

- \$ 0.0532 per Mcf at the time of delivery into storage (injection fee)
- \$ 0.0532 per Mcf at the time of withdrawal from storage (withdrawal fee)
- \$ 0.2906 per Mcf assessed on the maximum storage level attained in the storage year (capacity fee)

### **LATE-PAYMENT CHARGE**

A late-payment charge of 2.00 percent per month for industrial and NGDC ratepayers and 1.50 percent per month for commercial ratepayers shall be applied for failure to make payment in full, for all charges billed by the Company, by the due date shown on the bill. A late-payment charge of 1.50 percent per month for residential ratepayers shall be applied for failure to make payment in full within five days after the due date shown on the bill. This charge is to be calculated on the overdue portion of the bill, excluding any unpaid late-payment charge.

### **SURCHARGES**

All applicable riders to this tariff.

**ISSUED: March 30, 2001**

**EFFECTIVE: April 1, 2001**

**RATE ST  
STORAGE SERVICE**

**AVAILABILITY**

(C)

Storage/balancing service is available to transportation ratepayers under the following conditions:

- a. Rate ST is available for overdeliveries in excess of 3.5 percent, subject to a maximum volume limitation in storage at any one time, that will be based on the ratepayer's average monthly usage and on monthly volumetric injection levels set forth below.
- b. Monthly limitations on scheduled injection levels into storage are as follows:

April - 2 percent of average monthly usage  
May - 15 percent of average monthly usage  
June-September - 20 percent of average monthly usage  
October - 15 percent of average monthly usage
- c. Withdrawals from storage shall be limited to a maximum daily amount equal to 1/44 of the ratepayer's maximum volume limitation.
- d. Storage of gas by a transportation ratepayer other than described in (A) and (B) above will be at the Company's sole discretion.

**THE PEOPLES NATURAL GAS COMPANY  
d/b/a DOMINION PEOPLES**

**SUPPLEMENT NO. 19 TO GAS PA—PUC NO. 43  
FIRST REVISED PAGE NO. 58  
CANCELING ORIGINAL REVISED PAGE NO. 58**

**RATE ST  
STORAGE SERVICE**

**STORAGE CHARGE**

- \$ 0.0532 per Mcf at the time of delivery into storage (injection fee)
- \$ 0.0532 per Mcf at the time of withdrawal from storage (withdrawal fee)
- \$ 0.6289 per Mcf fee assessed on the maximum storage level attained in the storage year (capacity fee)

The rate for delivery into storage will be assessed in the month in which (a) the storage election is made or (b) the Company grants a request for storage. The rate for storage of gas (storage level fee) will also be assessed at that time and will be applied to the maximum storage level attained in a storage year (April 1 through March 31) and will be reassessed annually on April 1. The rate for delivery of gas from storage will be assessed in the month the gas is withdrawn. At the time of withdrawal, the applicable transportation rate from GS-T or Rate T will also be assessed.

**LATE-PAYMENT CHARGE**

A late-payment charge of 2.00 percent per month for industrial and NGDC ratepayers and 1.50 percent per month for commercial ratepayers shall be applied for failure to make payment in full by the due date shown on the bill. A late-payment charge of 1.50 percent per month for residential ratepayers will be made for failure to make payment in full within five days after the due date shown on the bill. This charge is to be calculated on the overdue portion of the bill, excluding any unpaid late-payment charges.

**SURCHARGES**

All applicable riders to this tariff.

## **RULES AND DELIVERY TERMS**

### **Deliveries Into and From Storage**

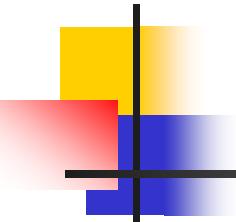
Deliveries to the Company in excess of the 3.5 percent banking level will be injected into storage unless the ratepayer requests otherwise by the 25th of the month. If the monthly limits on injection levels are exceeded, then the Company may purchase these volumes under the buy-back provisions in paragraph 13 of Rate GS-T or paragraph 13 of Rate T.

The Company shall withdraw the ratepayer's gas from storage to meet the ratepayer's needs in excess of gas advanced in accordance with the terms of Rates GS-T or T, unless the ratepayer notifies the Company by the 25th day of the month. If the ratepayer does not have the required storage balance to meet the withdrawal, then the ratepayer will be subject to the balancing provisions contained in Rate GS-T and Rate T.

Request for storage under availability provision (d) above must be made by the 25th day of the month. The Company will notify the ratepayer of acceptance or rejection of this request within three days of the receipt of the request.

**ISSUED: January 31, 2003**

**EFFECTIVE: April 11, 2003**



# Referencat

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- Administrata e Informimit per Energjitiken – Departamenti i Energjitikes i Shteteve te Bashkuara
- Kodi dhe Statuti i Pensilvanise