



WITTIG

Compressores de palhetas rotativas na instalação de digestão da Erdgas Südwest

O compressor “certo” para a geração de biogás natural

Qual o princípio de compressão mais adequado à geração de biogás natural? A Erdgas Südwest GmbH pode fazer uma comparação direta, uma vez que opera várias estações de tratamento de biogás utilizando diferentes configurações de compressor. Os compressores de palhetas rotativas Wittig da Gardner Denver conquistaram os funcionários da instalação de Laupheim/Burgrieden graças aos custos reduzidos de manutenção, aos altos níveis de eficiência e aos custos operacionais vantajosos.



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Bc'gY[i]a Ybhc'XYgtU'YI H'bg-c U
ZVfjWJYa '6i f]fjXYb'dfcXi n'U[cfU
WfWJ'XY'+ž+a]'\ Yg'XY'a Yfbcg
W'V]M'g'XY V]c[zg'dcf'Ubcž'U'dUffj
Xcg'ei U]g'g-c [YfUXcgž'WfWJ'XY' ž
a]'\ Yg'XY'a Yfbcg'W'V]M'g'XY V]c[zg'
naturU'dcf abo.

Estac-c de Compresg-c de Gzs

K #H# 'L!FCK 'W'a j Uf]UXcf'XY'
Z'YeI YbW]U'Y 'W'a dfYggcf'XY'dU'\YfUg
W'a 'fYV]W'U, -c XY'CEYc'U'dfcj U'XY'
YI d'cg-c'dUfU'W'a dfYgg-c'XY'a U]g'XY'
&a]'\ Yg'XY V]c'a YfUbc'{'*'} 'VUF
dUfU'U]a Ybhu, -c XY'j z]fcg'g]ghYa Ug
Ya 'Ya dfYgUg"
...

HfUfUbcXc!gY'XY'i a 'Zc'fbYVW'Xcf'fY[]cbU'
XY YbYf[]UžU'9fX[Ug'G' Xk Ygh; a V<ž
W'a 'gYXY'W'bfU'Ya '9th]b[Ybž
UVUgYVW'UFYgžYa dfYgUg'Y'U' hcf]XUXYg'
'cWJ]g Ya '6UXYb!K' fthYa VYf['W'a [zg'
bUhi fUžV]c[zg'bUhi fU'Y'Y'VW]W'XUXY'"5'
Ya dfYgU'fYVžb\YVWi 'Ug'cdcfhi b]XUXYg'
dfcdcfW]cbUXUg'dY'U'dfcXi , -c fY[]cbU'
XY [zg'U'dUffj'XY'a Uhf'f]Ug'df]a Ug'
fYbcj zj Y]g'bi a U'ZJg'Y]b]W]UžY Vžbgfhi]i'
Ug'gi Ug'dfcdcf]Ug'YghU, öes XY'
HfUfUa Ybhc'XY V]c[zg'Ya 'dUfWf]U W'a '
cg'U[f]W' hcfYg'"9I]gh'i a U'WUfU X]j]g-c'
XY'fUfYZJg. 'cg'U[f]W' hcfYg'Zc'fbYVW'a 'U'
Āa Uhf'f]U'ž'dcfYI "žU'V]ca UggUž'cdYfUa '
H'a V'fa 'cg'X]j YghcfYg'bcg'ei U]g'U'
a UggU Ž'fa YbhužY'Zc'fbYVW'a 'c [zg'
Vfi h'bc'dcbr'XY'YbhfY[U'"5'9fX[Ug'
G' Xk Ygh'f'fYgdcgžj Y'dY'c'
dfcW]ggUa Ybhc'Xc' [zg'Vfi h'dUfU'
UggY[i fU'fei Y'W'a dfY'cg'fYeI]g]hcg'XY'
di fYnU'Y'ei U]XUXY'Xc' [zg'bUhi fU'žY'
dY'U'W'a dfYgg-c'Xc'a Yga c'Uf'U'i a '
dcbr'Ya 'ei Y'Ygh'Y'dcggU'gYf'
U]a YbhuXc'bu'fYXY XU'Ya dfYgU'"

I a U'Zc'bf'XY'YbYf[]U]a] [U' Xc' Ua V]YbY

5'j UbtU[Ya 'XYgtU'Zc'bf'XY'YbYf[]U'f'
dcXY'fYgdY]h'f'c'Ua V]YbYž'i a U]j Yn

ei Y'c'i gc'XY'V]ca UggU'"jYfU'UdYbUg'U'
ei UbtU'XUXY'XY'7C&'UVgcfj]XU'dY'Ug'
d'UbtUg'Xi fUbtY'c'gYi 'W'YgW]a Ybhc'"
5'fa 'Xc'a U]gž'W'a c'V]c[zg'bUhi fU'žU'
V]ca UggU dcXY'gYfi gUXU'dY'U'j]bZU!
Yghfi hi fU'XY [zg'YI]gh'bfY'U'hc'Xc'UXcž'
dcf'YI Ya d'c'bu'W'c[YfU, -c'XY'W]c'fY'
YbYf[]U'Ya]ghU'U, "Yg'XY'dfcXi , -c'
W'a V]bUXU'XY'W]c'fY'YbYf[]UžYa '
'cW]g'W'a 'bYVW]gg]XUXYg'Uc' b]j Y'Xc'
W]c'fY'Y'VW]W'XUXY'"



7ca dfYggcf'XY'dU'\YfUg'fchUfj Ug'LI'FCK 'dUfU'
W'a dfYgg-c'XY'V]c[žg'c'ei U'gYfj]fz'XY'
U]a Ybhu -c'dUfU] z]fcg'g]ghYa Ug'Ya 'Ya dfYgUg'"



5]bghU -c'XYX[Ygh-c'XY'6i f[fYXYb'dfcXi n'WVW'XY' ž 'a]\ "Yg'XY'a Yfrcg'WV]Vtg'XY'V]c[zg'buH fU'hcXcg'cg'Ubcg'U'dUfHf'XY'a Uhf]Ug'df]a Uj'fYbcj zj Yjg' XU'fY[-c'"5'Ya d'fYgU'fYVb\YVW' Ug'cdcfh b]XUXYg'dfcdcfV]bbUXj'dY'U'dfcXi , -c'fY[]cbU'XY'[zg'U'dUfHf'XY'a Uhf]Ug'df]a Uj'fYbcj zj Yjg'bi a U'Zjg']b]MUžY' V]bcgfi]' Uj'g' Uj'drCBF]Ug'YghU' "Yg'XY'fU'Ua Ybhc'XY'V]c[zg'Ya 'dU'fV]U'V'a 'cg'U'f]W'hc'fYg'g']gY'i a U'VWU'X]]g-c'XY'fU'Zjg' Å

9gh'Z]hc'a Y'\c'fU'g[]b]Z]W]h] Ua YbH'U YZ]W'.bW]U'V]ta d'U'fU'h] Ua YbH'{' 'a U]c'f]U XUg']bghU'U, " Yg'XY'X[] Ygh-c'ei Y'cdYfUa Ya 'V]bZ'fa]XUXY'V]ta 'U'@]5'Ya ~XY 9bYf[]U'F'Ybcj zj Y'f99; ězbUg'ei U]g WV'fW'XY '* \$i 'XU'YbYf[]U[]YfUXU'fW]c'f] b-c'f'i h]nUXU"

I a U'XUg'YghU, " Yg'XY'fU'Ua Ybhc'XY'V]c[zg' XU'9fX[Ug'G' Xk YghYgZ' g]h' UXU'Ya 6i f[fYXYb'dYfrc'XY'@]i d\Y]a žbc'gi 'XY' I 'a "' :c]V]bcgfi \$XU'Ya '&\$\$', 'Y'Z'fbYVW'*\$\$' a Yfrcg'W'V]V]tg'XY'V]c[zg'buH fU' dcf'\c'fU' d'U'U'f'YXY'"H'c'fbc] !gY'fUd]XUa YbH' Ud'U'fYbH'ei Y'U'dfc'W'fU'YfU'

signifiW]h] Ua YbH'gi dYf]c'f{' 'UbH'f]c'fZ'U' V]ta c'c'Z'fbYV]a Ybhc'c'WU'XY'a Uhf]Ug! p]f]a Ug" Dcf'V]bcgY[i]bH'U'WUd'U]XUXY'XU']bghU'U, -c'Z'Xi d']W]XU'Ya '&\$%& 5' Z'V]f]W]Ya '6i f[fYXYb'dfcXi n'U[c'fU'WV'fW' XY'+ž+'a]\ "Yg'XY'a Yfrcg'W'V]V]tg' XY' V]c[zg'dcf'Ubcž'U'dUfHf'Xcg'ei U]g'g-c' []YfUXcg'W'fW'XY'" ž 'a]\ "Yg'XY'a Yfrcg' W'V]V]tg'XY'V]c[zg'buH fU'dcf'Ubc"

J'Ub]U'f]Ybg'Xc'V]ta d'fYggc'f'XY'dU'Y'fU'g' f'ch]U'g'Ug'9a 'V]b' b'hc'V]ta 'c'fU'Ua Ybhc' XY'[zgž'U'Zjg' d'fc'W'ggi U'a U]g']a dcf'fU'bh' b'Ygh'

h]dc'XY']bghU'U, -c'f'U'V]ta d'fYgg-c'"C' [zg' f'Z'fbYV]Xc'U'i a U'] []Y]fU'gc'VfYd'fYgg-c' XY'WV'fW'XY') \$'a VU'f'fYbXc'Ya gY[i]XU' XY'gY'f'V]ta d'f]a]Xc'U'U'dfcl]a U'damente 6,5 bar.

Nesta fase o fabricante pode optar entre vários princípios de compressão. A escolha pode recair sobre compressores de parafuso, pistão e de palhetas rotativas. C'g'V]ta d'fYggc'fYg'XY'dU'Y'fU'g' f'ch]U'g'Ug'fY[i 'UXcg'dcf'Z'fYei ..bW]U'K]h] 'LIF'CK', \$; 'V]ta 'i'V]Z]W], -c'dcf'W'fW']hc' V]bc'bh'i c'XU'; U'fXbYf'8Ybj Y'f'g-c' i gUXcg' bU'bcj U']bghU'U, -c'Ya '6i f[fYXYb'" 8YghU'W]a]gY'XYj]Xc'Uc'gYi Z' bW]c'Ua Ybhc'g]Y'W]c'g'c'Y'U'i a U]j]XU' • h] 'a i]hc' 'cb[U'V]ta 'VU]]cg'fYei]g]hc'g'XY a Ubi H'Yb, -c'Z'Y'dcf'V]bcgY[i]bH'g-c']XYU]g d'U'U'd']W], " Yg'ei Y']a d']W]a 'i a Z' bW]c'Ua Ybhc' V]bc'bh'i c'"C'g' V]ta d'fYggc'fYg']bghU'UXcg'Ya '6i f[fYXYb' g-c' V]bc'WV]Xcg d'U'fU'j Un" Yg' j'c'i a f'f]W]Ug'U'f') \$* Ba 'AžY'V]ta c'gY'f]U' XY'Ygd'Y'fU'f'Z'b'Ygh' W]gc'Z'] i gUXU'i a U' j Yfg-c' U'dfcj U'XY'Yi d'cg-c' V]bc'WV]XU' d'U'U'ncbUg'XY'f]g'V]c'"B'c'ei Y'fYgd'Y]H'U' H'V]bc'c' []U'XY' V]bc'f'c' Yž'cg' V]ta d'fYggc'fYg' Ygh-c']bH' [fUXcg'bc' g]gY'a U' []YfU'"



Os compressores de palhetas rotativas da série de produção X-ROW destacam-se pela sua longa vida útil, pela elevada eficiência energética e pelos baixos requisitos de manutenção.



Tudo sob controle: sistemas funcionam de forma confiável e contínua e são geridos a partir de uma sala de controle central.

I a 'df]bW]c'f'Ygh'Xc'Y'V]ta d'fcj U'Xc' d'U'U'd']W], "Yg'XY'U'fU'fYg]g'h.bW]U' I a U]j Yn'ei Y'c'd'f]bW]c' XU'g'dU'Y'fU'g' f'ch]U'g'XY'a c'bg]fci 'U'gi U'Y'Z]W].bW]U'bu' V]ta d'fYgg-c'XY' [Ug'Yg' V]bc'f'cg'Y' V]bc'Ua]bUXcgž'cg'V]ta d'fYggc'fYg'K]h] 'LIF'CK', \$; 'V]ta 'i'V]Z]W], -c'dcf'W'fW']hc' V]bc'bh'i c'XU'; U'fXbYf'8Ybj Y'f'g-c' i gUXcg' bU'bcj U']bghU'U, -c'Ya '6i f[fYXYb'" 8YghU'W]a]gY'XYj]Xc'Uc'gYi Z' bW]c'Ua Ybhc'g]Y'W]c'g'c'Y'U'i a U]j]XU' • h] 'a i]hc' 'cb[U'V]ta 'VU]]cg'fYei]g]hc'g'XY a Ubi H'Yb, -c'Z'Y'dcf'V]bcgY[i]bH'g-c']XYU]g d'U'U'd']W], " Yg'ei Y']a d']W]a 'i a Z' bW]c'Ua Ybhc' V]bc'bh'i c'"C'g' V]ta d'fYggc'fYg']bghU'UXcg'Ya '6i f[fYXYb' g-c' V]bc'WV]Xcg d'U'fU'j Un" Yg' j'c'i a f'f]W]Ug'U'f') \$* Ba 'AžY'V]ta c'gY'f]U' XY'Ygd'Y'fU'f'Z'b'Ygh' W]gc'Z'] i gUXU'i a U' j Yfg-c' U'dfcj U'XY'Yi d'cg-c' V]bc'WV]XU' d'U'U'ncbUg'XY'f]g'V]c'"B'c'ei Y'fYgd'Y]H'U' H'V]bc'c' []U'XY' V]bc'f'c' Yž'cg' V]ta d'fYggc'fYg' Ygh-c']bH' [fUXcg'bc' g]gY'a U' []YfU'"



... 'cg' U[f]W[hcfYg' ZfbYWA ' U Ā a Uyf]U'ž dcf' Yl 'ž U V]ca UggUž cdyfUa ' hUa Vfa 'cg X][YghfYg' bog'ei Ulg U a UggU Zfa YbUžY ZfbYWA 'c' [zg'Vfi h' bc'dcbtc'XY YbfY[U...

... '5'9X[Ug'G' Xk Yghf' fYgdbgz] Y' dY'c' drcWggUa Ybhc' Xc' [zg'Vfi h' dUfU UggY[i fU'ei Y'Wa dY'cg'fYei]g]hcg'XY' d' fYU'Y'ei U']XUXY'Xc' [zg'buli fUžY' dY'U'Wa dYgg-c' Xc' a Yga c' U'f' U' i a 'dcbtc' Ya' 'ei Y'YgY' dggU'gYf' U]a YbU'Xc' bU'fYXY'XU'Ya dY'gU'

são i gUXcg' bU'Vč'a dFYgg-c' XY' [zg'XY' Zfa YbHU, -cž' [zg'XY' UY'ffcg'Y' [zg'XY' a]bUg' YbfY' ci hfUg' Ud']WU, " Yg": cfUa ' hUa Vfa ' i gUXcg'bc'a YfWUXc' Vč'a dUFU]h' Ua YbHY' bcj' c' XU'Vč'a dFYgg-c' XY' V]c' [zg'Xi fUbfY' a U]g' XY' XYn' Ubcg''

parafuso. Por conseguinte os W' g]hcg' XY' a Ubi hYb, -c' g-c' Yl hfYa Ua YbHY' VU] cg' Y'c' hYa dc' XY']bU]h]]XUXY' b-c' drc' fUa UXc' f' a i]rc' fYXi n]Xc''

Ī 7 UXU'X]U'ei Y'U']bghU'U, -c' Yghz' dUFUXU' fYdFYgYbHU' i a U'fYXi, -c' bUg' j YbXUg' Xcg' drc' Xi hcfYg'' h'c' Xcg'cg' Ybj' c' j] Xcg' h' a 'c' a U]c'f']bHY'fYgg'Y' Ya' UggY[i fU'ei Y'c' dY'f'c' Xc' XY' ž bW]cbUa Ybhc' XU']bghU'U, -c' XY' 'ei f[f]YXYb' f' c' a U]g' Y'Yj UXc' d'cg'g'f' Y'' '9g'z' Ya' ž bW]cbUa Ybhc' * '\$' X]Ug' dcf' UbcžY'cg' Xc']g' Vč'a dFYggc'fYg' XY' dU'Y'YUg' fchU]h' Ug' K']h] ['Vč'a d'f]a Ya' 'a U]g' XY' & a]\'' Yg' a ' 'XY' V]ca YhUbc' XU' fY[]-c' h'c' Xcg'cg' Ubcgž' YghU'Xc' Ya' ž bW]cbUa Ybhc' XY' Zfa U'ei UgY' Vč' b' h' bi U'Ī

Torsten Kock, director de sistemas bU ; UfXbYf' 8Ybj Yf' K']h] ['Gng]hYa gžYI d']WU Ug' j UbfU] Ybg' Xc' d'f]bW]d]c'. Ī Ī a Uj Yn' ei Y' Ug' dU'Y'YUg' fchU]h' Ug' ei Y' Vč'a d'f]a Ya' 'c' [zg' b-c' YbfUa ' Ya' Vč' b' h' U'c' X]fY' h' Vč'a ' U' dUFYXY' XU' Yghf' h' fUž' XYg' c' WUbXc']gY' UhfUj' f'g' XY' i a U' dY' W' U' i V]f]ZWUbY' \XfcX]b] a]WUž' b-c' Yl]ghY' ei U'ei Yf' XYg' [Ug' hY' bU' W] a UfU' XY' Vč'a dFYgg-c'' '5X]M]cbU' a YbHY' ž h'c' XUg' Ug' dY, Ug' a C]Y]g' hU]g' Vč'a c' c' a c' h' f' ž c' UVč' d' Ua Ybhc' Y' U' fYz] [YfU, -c' d' c' f' C]EYcž Ygh-c' XYg' Yb' U' XUg' d' UfU' UggY[i fUfYa ' i a U' cb[U' Xi fU, -c' Ī '5' f' a ' Xc' a U]gž' cg' fc' Ua Ybhc' g' dc' XYa ' gYf' gi Vg]h] h' Xcg' Vč'a i a U' Z' Yei . bW]U' Vč' b' g]XYfUj' Y' a YbHY' a Ybcf' Vč'a ' i a ' Vč'a dFYggc'f' XY' dU'Y'YUg' fchU]h' Ug' Xc' ei Y' Vč'a ' i a ' Vč'a dFYggc'f' XY'

5 Vč' b' ž]U']XUXY' Vč'a dY' b' gU' 5' [Ygh-c' XU' 9fX[Ug' G' Xk Ygh; a V< ' dcXY' Vč' b' ž]fa Uf' YghU' U]ž]fa U, -cž' i a Uj Yn' ei Y' dcXYa ' ž h' Yf' i a U' Vč'a dUfU, -c' X]fYHU' ? Uf' Y]]bn' 6fi bbYfz' YbWUffY[UXc' [YfU' bU']bghU'U, -c' XY' X] [Ygh-c' Ya' ' '6i f[f]YXYb' Y' W' YZ' XY' Yei]dY' bc' W' b' h' c' XY' a Ubi hYb, -c' Ya' ' A' i bXYf_]bXYb. Ī C' g' dY' f' c' Xcg' XY']bU]h]]XUXY' c' Wč' f' fYa' Vč'a ' i a U' Z' Yei . bW]U' a i]rc' a' Ybcf' b' c' g' Vč'a dFYggc'fYg' XY' dU'Y'YUg' fchU]h' Ug' Xc' ei Y' Ya' 'ci h' f' c' g' h' d' c' g' XY' Vč'a dFYggc'fYg' ei Y' h' Ya' cg']bghU' UXc' Ī

9ghU' Vč' b' ž]U']XUXY' f' a i]rc' j UbfU' c' gUž' b-c' UdYbUg' dUfU' cg' cdYfU' Xc' fYg' a Ug' hUa Vfa ' dUfU' cg' gYi' g' dUfW']fcg' 'cg' U[f]W' h' c' fYg' d' c' d' f]Yh' z' f]c' g' XU']bghU'U, -c' XY' [YfU, -c' XY' V]c' [zg' ? Uf' Y]]bn' 6fi bbYf'

Ī C' W' g' h' c' h' U' XU' d' c' d' f] Y' XUXY' ' ' f' XW]g]j c' 7 cbh' Xcž' b-c' dcXYa cg'] [bcfUf' c' ž h'c' XY' ei Y' U' Uei]g, -c' XY' i a ' Vč'a dFYggc'f' XY' dU'Y'YUg' fchU]h' Ug']a d']WU' i a ']bj' Ygh' a Ybhc' a U]c'f' Vč'a dUFU]h' Ua YbHY' U' g]gh' Ya' Ug' f] U]g' '9g' hY' ž h'c' XY' Y' gY' dUfW]U' a YbHY' { Y' Y' UXU' ei U']XUXY' Y' Ucg' Vč'a ' dcbYbHY' g' Xi fUXci f' c' g' ž a Ug' hUa Vfa ' ž h'c' XY' ei Y' YghYg' Vč'a dFYggc'fYg' b-c' dcXYa



Cg' dY' f' c' Xcg' XY']bU]h]]XUXY' c' Wč' f' fYa' Vč'a ' i a U' Z' Yei . bW]U' a i]rc' a' Ybcf' b' c' g' Vč'a dFYggc'fYg' XY' dU'Y'YUg' fchU]h' Ug' Xc' ei Y' Ya' 'ci h' f' c' g' h' d' c' g' XY' Vč'a dFYggc'fYg' ei Y' h' Ya' cg']bghU' UXc'' Ā Ā 9Yg' Vč'a d'f]a Ya' 'a U]g' XY' & a]\'' Yg' XY' V]c' a YhUbc' h'c' Xc' Ubcž' cdYfU' b' Xc' ei UgY' Vč' b' h' bi Ua YbHY'



? Uf' Y]]bn' 6fi bbYfz' YbWUffY[UXc' [YfU' bU']bghU'U, -c' XY' X] [Ygh-c' XY' '6i f[f]YXYb

gYfVŁa dFUXcg Ĩ d fcbhcg U i gUfi " Hc fghYb
 ? cW. Ĩ c g'bcggcg VŁa dFYggcfYg g-c
 gYa dFY'gJghYa Ug VŁbWV]Xcg
]bXj] Xi Ua YbHY UXUdHUXcg YgdYV]WŁa YbHY
 { 'Ud']WU, -c Y'g-c YgdYV]WŁa YbHY
 VŁbghfi Xcg dUFU'cg W]YbHYg Ya
 GWŁcdZYJa " Ĩ 7cbh XczgY'hj Yfa cg'Ya
 VŁbHU'cg W gfcg [YFU]gZ'cg VŁa dFYggcfYg XY
 dU\YHUg fchU]j cg g-c Ua Y\cfYgVŁ\U dUFU
 a i]HUg Ud']WU, " Yg Ĩ dUFH'W Ufa YbHY cbXY
 g-c UH]b [Xcg Y'Yj UXcg hYa dcg XY
 Z bV]cbUa Ybhc " C Y'Yj UXc b]j Y'XY YZV]. bWU
 HUa Vfa 'a Ubhfa 'fYXi n]Xcg'cg W gfcg
 fYbYf [f]hVŁgŁ"



Hc fghYb? cW]X]fV]Łf XY'gJghYa Ug bU; UFXbYf
 8Ybj Yf K]H] 'GngYa gY? UF\Y]bn'6fi bbYfZ
 YbW]fY [UXc [YFU " bU]bgHUU -c XY X] [Ygh-c XY
 Ĩ f [f]YXyb"

Como fornecedores de energia,
 também consideram importante usar
 compressores particularmente
 YZV]YbHYg Uc b]j Y' Xc VŁbgi a c'
 YbYf [f]hVŁg " ? UF\Y]bn'6fi bbYf.
 Ĩ 7cbgY [i]a cg W a d]f]ZV]a YbHY U'
 XYa cbghU, -c XY YZV]. bWU fYei Yf]XU
 dYU @] 5Ya - XY 9bYf []U F Ybcj zj Y' Ĩ

Author: 6YfbX < UUGZ8]d' " Ĩ f [< ĩZ [Yghc fXY
 j YbXUg dUFU'gJghYa Ug bU; UFXbYf 8Ybj Yf
 GWŁcdZYJa ; a V<.
 : clcg. 9fX [Ug G~ Xk Ygh; a V< e Gardner Denver
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Cg VŁa dUFU]j cg ZU]a WU]Ua YbHY UZUj cf
 Xcg VŁa dFYggcfYg XY dU\YHUg fchU]j Ug 5
]bgHUU, -c XY '6i f [f]YXyb Zc] VŁbWV]XU dY U'
 VŁbgi 'hc fU h'fWb]WU 9HK ZVŁa 'U'ei U' U'
 ; UFXbYf 8Ybj Yf ZYei YbHYa YbHY VŁ'UVcfU"
 Hc fghYb? cW. Ĩ ĩZ]na YbHY ZbYa 'hc Xcg'cg
 fYgdcbgzj Y]gd'cf d'UbY Ua Ybhc YgVŁ\Ya
 VŁa dFYggcfYg VŁa 'VUgY'bcg W gfcg
 fY UH]j cg Uc V]WŁc XY j]XUzY U [i bg
 YgVŁ\Ya VŁa dFYggcfYg ei Y' dcXYa 'gYf
 a U]g VUfUhcg'bc'a ca Ybhc XU'Uei]g, -c'a Ug
 ei Y'gY hc fbUa 'a U]g X]gdYbX]cgcg Ya
 h'fa cg XY W gfcg'cd YFU]cbU]g " ghc' dcXY
 XYj Yf]gY HUa Vfa 'Uc ZUhc XY'ei Y' U'a U]cf]U
 Xcg'cd Yradores de uma instalação de
 digestão ZUn YghY]bj Ygh]a Ybhc UdYbUg'i a U'
 j Yn " 7cbh Xcz'cg XY W]gc fYg bU 9fX [Ug
 G~ Xk Ygh; a V< 'cdYfUa 'j z f]Ug]bgHUU, " Yg Y'
 dcf VŁbgi [i]bHY' dcXYa 'ZUn Yf VŁa dUFU, " Yg"

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