

1 OG ROK# EhFikd# hG G Ókd # Ekf Ód

^EMOK#LÓHKE

] 5 \98#FOkMd# ojoókQL

5Î#ÓjI#CC#G ooikEM

\hkIod

] QEkO

- ] 5 \98#90 9^7W
- ] \ / i:
- \EkOzÓQiEF#OÓQIEk
- 7ÓjRÆ
- / iLOk#kEjQij

# Located in Trondheim, Norway



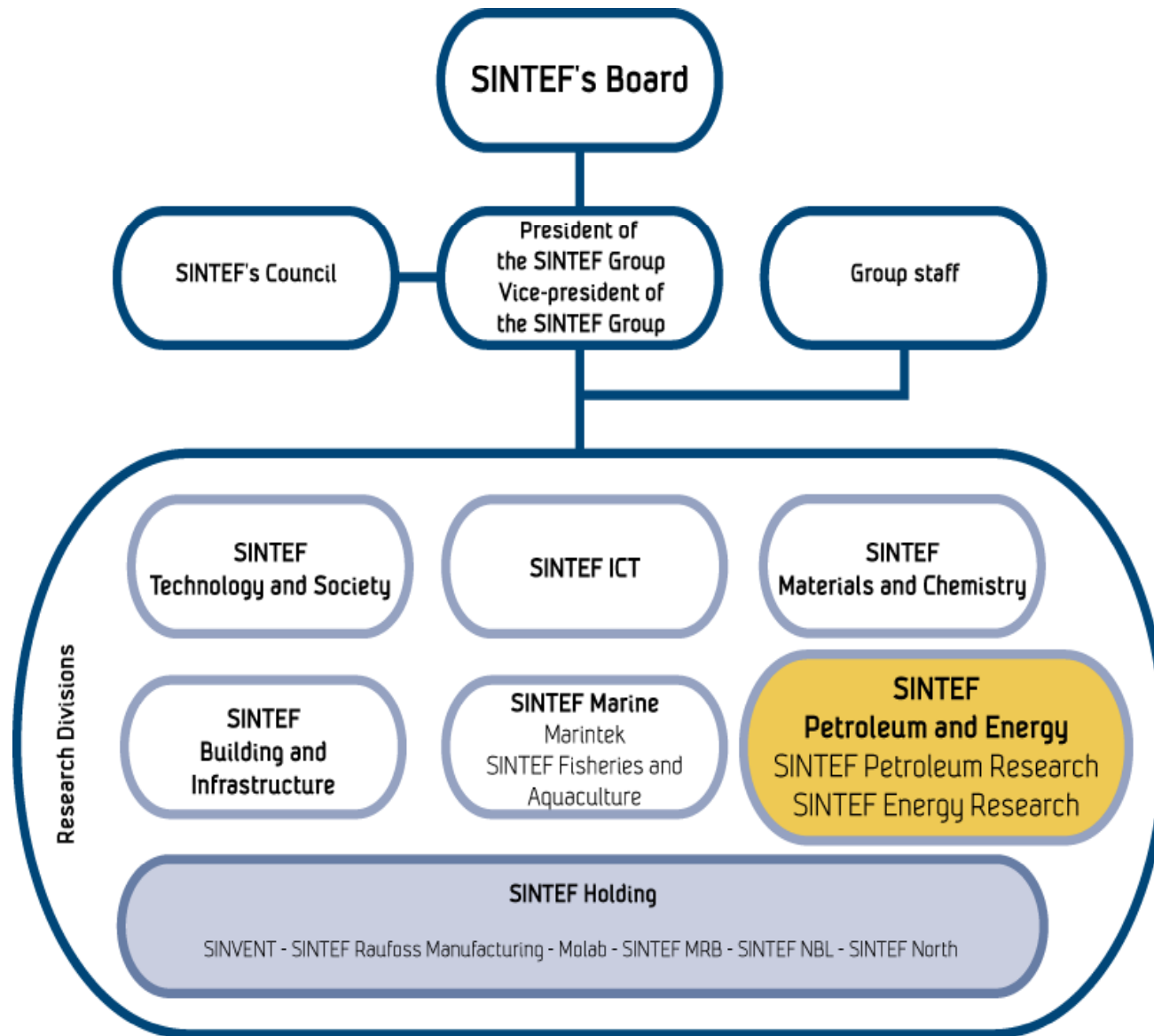
0 hG ROk#Ez#DG kHEdooj .

0 \ 0 [ # ? == # QKOF'ikQ#=#

7FQH#EjijPEQ#FP#L: # ihPOFij...

] 5 \ 98#D \$BA# QKOF'ikQ#C#

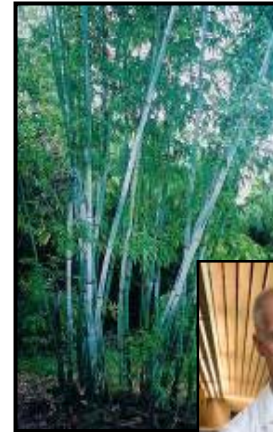
] ihPOFij #D="==



# 9FokMd#kójóóQL#QHj iok

] 50 \98# #0 \0 [#\_ÓqO#?A=#0G kHEd00j#  
zEQhjKFM#EF#0FokMd#OQLFEHEMd

- »dPK# Ef Ok
- ] EÓ#QHj
- fl KFP#
- ·KEOFokMd
- ; ; ] # ; ÓKREF# Ókin#ÓFP# iekóMO
- iokE#0G KjjKEF#RhKPKFMj
- / K#ÓFP#MÓj#0rkHEkÓiKEF#ÓFP#kEPHQiKEF
- 9FokMd#jdj iOG j



] \ / i # ] \ Ó R I D # i O K Ó i K E M # Q E F P K I E F j # E k # R I E G Ó j j #  
Q E G R h j i K E F # K I Ó F i j

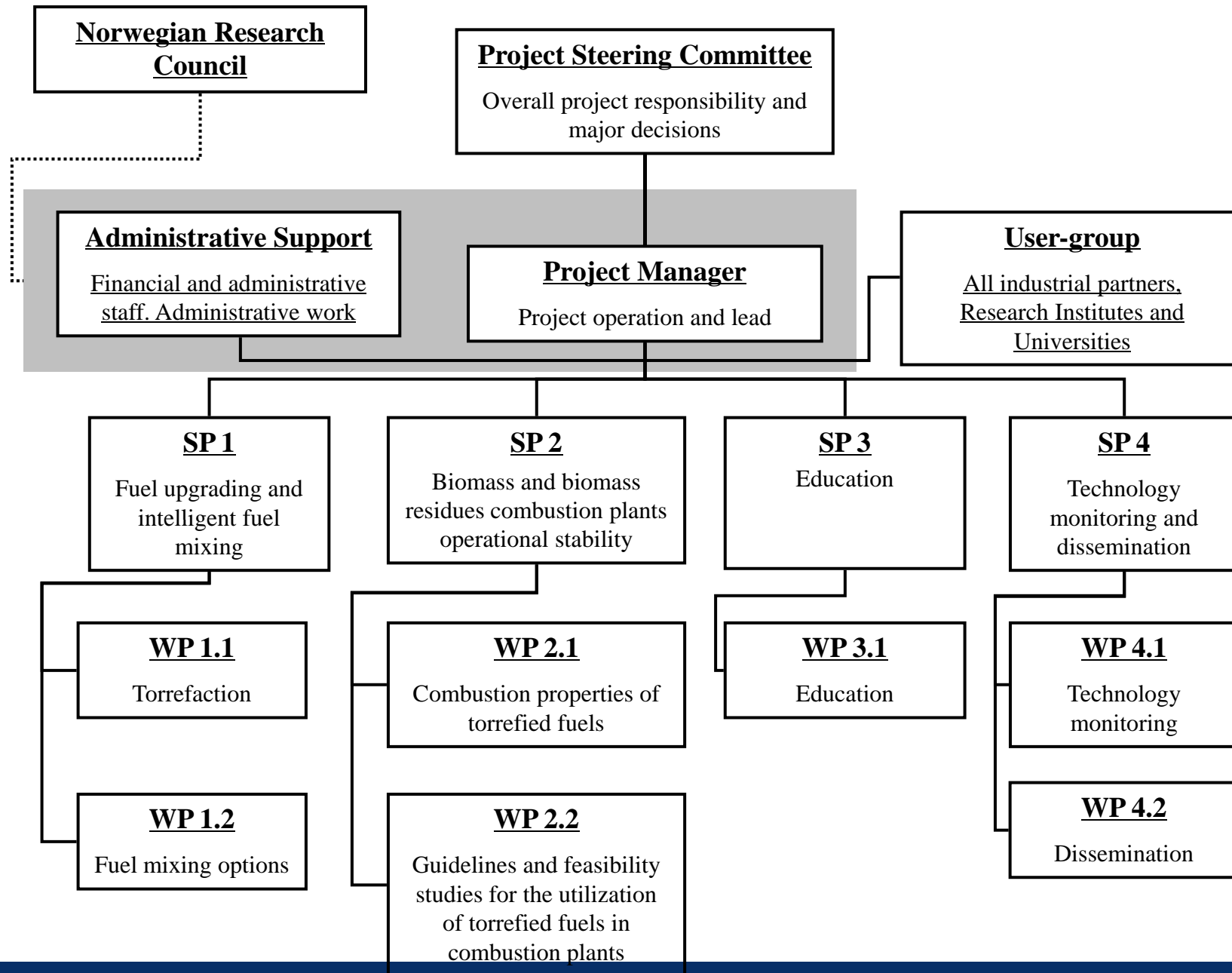
- The main objectives in STOP:

Development of new strategies for improved operating conditions control in biomass and biomass residues combustion plants through:

- The utilization of more homogenous fuel with minimized season variation
- Optimized fuel in terms of pollutant emissions
- Improved fuel quality through torrefaction

ikEJQI#EgOkqIKOf: Iod#PÓiC

- ] \ / i # ] \ ÓRIQ# iOkÓiKFM#QEFPKIEFj#Ek#REG Ójj#  
QEG RhjiKEF#kÍOfij#
- ikEJQI#idkO 31 · #; EG koiÓFQO#RhKPKFM#kEJQI.
- ·hPMoi,
  - 0 EkfOMÍOf^ OjOÓkQL#; EhFQK#?A#I9hkeÓ
  - 5Phjikd#P=#I9hkeÓ
  - \EiÓH#ABA#I9hkeÓ
- :hkÓiKEF B#dOÓkj







# \EkkóziKEF#óóQIEk

## ;LókóoiokKj ikQj

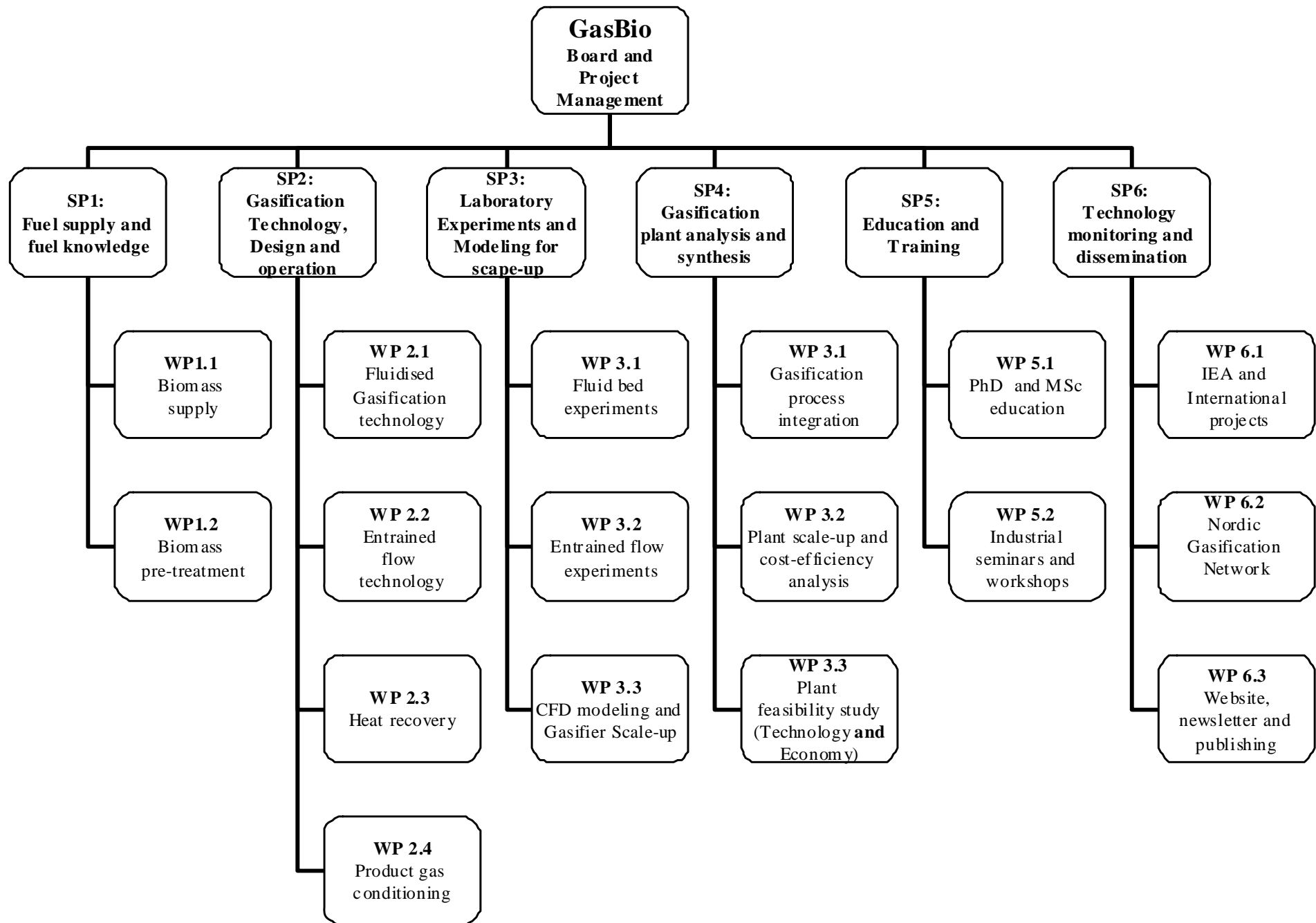
- 800P#dko      fl EEPQLKkj#j Óf Phj i#j ikÓf#k  
kOHDIj#..
- ;ókóQkid      = D' ?#IMOL
- \OG kokóihko      D==# C==#;
- 8hOI#j KÿC      \$f' DA#G G
- hHI#POFj Kid#      \$==# @==#M•G<sup>C</sup>

## 1 ÓKE# EG kEFOFIj

- KE#EK#Óf #G ÓiokíÓI
- 800PKFM#j Qkof
- : kdKFM#QEFqodEk
- » oóikFM#QEFqodEk
- \EkkóziKEF#QEFqodEk
- ; EEHFM#QEFqodEk
- ] HPKFM#OOPOk#ROif OOF#QEFqodEkj

ikEUDQi#EqOkqIKOf | Iod#PÓiC

- 0 OF #kEUDQi# KILK#LokG EQLOG IQÓH#RKEzhOI#kEPhQiKEF#  
'7Ój · KE..
- ikEUDQi#dkO 31 · #; EG koiÓFQO#RhKPKFM#kEUDQi.
- · hPMoi,
  - 0 Ekf OMÍOF# OjOÓkQL#; EhFQK@?A#I9hkeÓ
  - 5Phjikd \$?A#I9hkeÓ
- \EiÓH#A=#I9hkeÓ#
- :hkÓiKEF B#dOÓkj



# 7 Ój kóí kE#k# kzhOHj #7 Î ] · 5/ ...

- 1 ÓkERDQikoj

- \E#PqOHEk#) Ekf OMÍOF#QEG koiOFQO#E#LO# kzhOHj #kóó”
  - 9G kLÓjkj #E#ÓMcéjQÓID#kEPhQikE#E#hKÓRID#hÓHKIOj #E#dFiLOjkj #Mój#
- \E#QEFikRhio#E#LO#OPhQikE#E# kzhOHj #kEPhQikE#QEj ij
  - 5FFEqÓikE#j #E#Mój kóí kE#kEQQojj oj
  - 8EQhj #E#E# é#ÓHh#REG Ójj #kóí kE#j

- fl » W°

- 0 Ekf Ód#Ój #ÓkMO#FhjOP#REG Ójj #ojEhkQoj
- 9 [ #OMKjÓikE#G ÓFPÓioj #hRj iÓFiÓi#E#Qkóójo #E#LO#hjo#E#RkzhOHj
- · kzhOHj #COOP#EiOFjkj #ojóóQL#E#ROQEG O#QEG koiKikO#E#zEjj kzhOHj #E#Ó#ÓkMok#QÓK

/ iLok#7 ÓjKZQÓiKEF# OjOÓkQL#iKEJQij

# ^ Oz ' 3 Od#PÓiC

MFEOHHEjKj Ój# RÓjKj#Ek#OQEFPMOFokÓiKEF#KEzhOHj#ÓFP#LO#zhiko  
RKEkOZFKd

- iKEQDi#dkO #1 ·# ^ojOókQL# EhFQKEZ# Ekf Ód
- ·hPMoi,
  - \EiÓH#CG #phkE
- :hkÓiKEF #B#Oókj#D==<# D=\$D..
- iÓkiFOkj
  - ;EEkPFÓiEk# 8#kÓkOk#ÓFP#Zok#ojOókQL#Fj ikhiO..
  - FPhjikd # iÓiEK# EkOMÓókP#lOdÓFP#Hj IEM# ÓGRK
  - /iLOkj #1 ·# [K # \0 [

# ‘KMF’ Oz / R. D. Q. i. k. o

## 1. ÓF#ER.DQ.i.k.oj

- \E#PQOHEk#hFPÓG OF íÓ#FEF#OPMO#REh#i#QOF ík#kEQOj#Oj#Ek#Ej#Ez#QZQik#QDEFqOkj#EF#Ez#KMF#EQO#HE#j#Q#G ÓiOk#ÓH#F#i#E#QOEF#MOF#Ói#EF#RE#zh#Oj#ÓFP#E#i#Lok#ÓH#C#ÓP#POP#k#kE#Ph#Qij#
- ;OF ík#kEQOj#Oj#F#Q#h#P#R#EG#Ój#k#k#i#k#Ó#i#G#OF#i#d#P#k#E#d#j#k#k#Ó#G#OF#i#Ó#i#E#F#Ó#F#L#O#G#E#Q#L#O#G#Q#Ó#H#Q#DEF#q#Okj#EF#Ez#k#kEQOj#R#d#k#kE#Ph#Qij#”

## ] hRMEÓHj .

- S#k#E#q#h#F#P#O#k#j#i#Ó#F#P#K#M#E#z#L#O#h#F#P#Ó#G#O#F#i#Ó#G#Q#L#Ó#F#K#G#j#E#Q#E#Q#P#E#k#k#i#k#Ó#i#G#O#F#i#Ó#F#P#Ó#Q#i#E#F#Ó#i#E#F#E#z#P#K#Z#O#F#i#H#M#F#E#Q#O#H#E#j#Q#Ó#F#G#Ó#i#O#K#Ó#H#E#k#L#K#O#P#K#Z#O#F#i#k#kE#Ph#Q#i#E#F#E#h#i#O#j#P#K#Q#i#d#P#k#E#d#j#k#k#P#h#k#M#k#k#i#k#Ó#i#G#O#F#i#d#P#k#E#d#j#k#k#Ó#i#O#K#k#k#i#k#Ó#i#G#O#F#i#Ó#F#P#R#E#G#Ó#j#j#Ó#j#K#Q#Ó#i#E#F#E#K#L#B#K#Q#L#O#K#K#E#k#j#Q#L#H#d#F#i#L#O#j#k#”
- S#k#E#q#P#h#F#P#O#k#j#i#Ó#F#P#K#M#E#z#L#O#h#F#P#Ó#G#O#F#i#Ó#G#Q#L#Ó#F#K#G#R#O#i#F#O#F#k#k#i#k#Ó#i#G#O#F#i#Ó#F#P#K#E#F#j#Ó#F#P#Ó#F#Y#d#G#Ó#i#Q#Q#E#F#q#Okj#E#F#E#z#H#M#F#E#Q#O#H#E#j#Q#G#Ó#i#O#K#Ó#H#j#Ó#F#P#h#k#i#L#O#k#P#Q#O#H#E#K#G#O#F#i#E#z#Ó#F#Y#d#G#O#H#d#j#i#O#G#j#H#L#Ó#i#E#K#E#G#Ó#i#O#H#L#O#k#kEQOj#j#G#E#k#Ó#Z#Q#i#k#o#”
- 9#q#Ó#H#Ó#i#Ó#F#P#G#k#E#q#G#Q#K#E#L#M#Ó#F#K#G#j#E#k#h#j#O#E#F#Ó#G#O#F#i#Ó#i#E#F#E#z#H#M#F#E#Q#O#H#E#j#Q#H#d#P#k#E#d#j#Ó#i#O#j#F#i#E#j#Q#O#E#F#P#M#O#F#Ó#i#E#F#R#E#z#h#O#j#Ó#F#P#Ó#H#Ó#Ó#P#P#O#P#k#kE#Ph#Qij#”
- 9#q#Ó#H#Ó#i#Ó#L#O#G#E#j#i#Q#E#j#i#E#Z#Q#O#F#i#E#Ó#d#E#z#h#j#K#M#L#O#G#E#Q#L#O#G#Q#Ó#H#Q#E#F#q#Okj#E#F#E#k#H#G#h#H#Ó#F#O#E#h#G#Ó#F#h#Z#Q#i#h#O#E#z#k#O#F#Ó#R#i#O#h#O#H#j#L#M#L#Ó#H#O#Q#L#O#G#Q#Ó#H#j#Ó#F#P#h#H#G#Ó#i#O#K#Ó#H#j#k#E#G#H#L#O#H#O#k#Ó#i#Ó#P#R#E#k#E#d#G#O#k#j#Ó#F#P#h#E#G#R#d#k#kE#Ph#Qij#z#E#G#O#P#P#h#k#M#k#k#i#k#Ó#i#G#O#F#i#d#P#k#E#d#j#k#k#Ó#F#P#Ó#G#O#F#i#Ó#i#E#F#”
- S#k#E#q#h#F#P#O#k#j#i#Ó#F#P#K#M#E#z#L#O#G#Q#L#Ó#F#K#G#j#E#z#L#O#G#E#Q#L#O#G#Q#Ó#H#Q#E#F#q#Okj#E#F#E#i#E#R#E#E#K#j#Ó#F#P#R#E#Q#L#Ó#k#Ó#F#P#h#F#P#L#O#H#R#O#j#i#Q#E#F#P#K#E#F#j#E#F#Ó#G#j#E#z#k#kE#Ph#Q#i#Q#E#G#K#E#j#K#E#F#Ó#F#P#k#kEQOj#j#Q#E#F#E#G#d
- 9#q#Ó#H#Ó#i#Ó#L#O#k#kE#k#O#k#i#O#j#E#z#L#O#R#E#E#K#j#E#K#L#H#O#j#K#Q#i#E#H#L#O#R#O#L#Ó#q#E#h#k#Ó#j#Ó#h#O#Ó#F#P#Ó#F#q#K#E#F#G#O#F#i#Ó#F#P#L#Ó#H#L#H#Q#E#F#j#O#L#H#O#F#Q#O#j#”
- i#h#R#H#L#E#=#k#Ó#k#O#k#j#E#j#Q#O#F#i#Z#Q#E#h#F#Ó#H#j#H#P#h#Q#Ó#i#O#C#H#L#:#•i#E#j#i#E#P#E#Q#Ó#F#P#K#Ó#i#O#j#”

# • KEG Ójj #E#KlhKP#zhOHj |´ Iod#PÓiC

- \LOG EQLOG KÓH#REzhOH#kEPhQikeF
- iKEUQi#dkO 31 .|
- .hPMoi,
  - 0 Ekf oMIÓF# ojOókQL# EhFOKE#A=α
  - FPhjikd #A=α

\EiÓH#G K#Phke#D==<ÉD=\$\$.
- :hkÓikeF C#UÓkj
- iÓkiFOkj
  - ;EEkPKFÓieI# iKEUQi#E f FOk# \0 [# :OkI# LOG #FM”
  - FPhjikd # iÓieK
  - ] 5 \98# dPKEQÓkREF# kEQOjj# LOG Kjikd##3KQÓi# OG KFK#OFiok..



# • KEG Ój j #E#KlhKP#zhOHj |´ ERJQIiQoj

/qokÓH#ERJQIiQoj .

‘\$. 8hFPÓG OF iÓH#ojóokQL#EF#iOd#QóióHliQ#j iokj#kOZEK KFM#EMj#DiQ.”

‘D.. 9j iÓRHjL #FEf KOPMO#FOOPOP#E#j OHQI#G kkeqOP#QóióHj ij #E#PjEKROFij

- 9PhQóioD#L: j#AkóF lhóHOP#ojóokQLokj”
- ìhRHjL kojóokQL#ojhHj
- ;EEkOkóio QHEjOid# KIL#FPhj id# KILF#okj EFFFH#lÓKFM#ÓFP#ojóokQL”
- 9j iÓRHjL G kkeqOP# \`#OQLFEHEMd
- 9j iÓRHjL Î PqÓFQOP#ÓREkóiekd#ÓQKKIOj
- 9j iÓRHjL ;EFQOkihóH#hFPokj iÓFPKFM#i #FOF #G ÓiOkóH#FEf KOPMO

0 Of #FFEqóikqo#kkoikóig Of i#Ez# EkPIQ# EEP#EK#QEj ié  
OzzOQikqo#hohéiLÓFEI#kkEPHQikeFr#D==?@=\$=.#

- ikEJQI#idko # EkPIQ#FOkMd# OjOókQL
- .hPMOj
  - \EiÓH\$ @G K#hKE
- :hkÓiKEF #B#lOókj
- iÓkiFOkj
  - ;EEkPIFÓiEk# 85
  - FPhjikd # iÓiEK# EkOMÓókP# EqEYdG O# 93Î · # Ekj IO# IEM#  
] IEMOIokzEkOFKEMOF
  - ^u : #FqOFiÓ# Óikj# \# 5 \98

# 0 Of i#FFEqÓikq#kkóikóig Of i#Ez# EkPIQ# EEP#Ek#Qej ié OzzQikq#hOféOILÓFEI#kkEPhQikeF#D==?€D=\$=..!

## 1 ÓK#MEÓH

: OqOHEk#FM#Of #kóikóig Of i#OQLFK#hoj#ÓFP#kEPhQikeF#QLOG Oj#LÓi# #PhQO#LO#EqÓi#kkEPhQikeF#Qej ij#El#  
zOféiLÓFEI#kEG # EkPIQ# EEP”  
4E#FM# EkPIQ#OjÓkQL#OjEh#Qoj#F#LO#k#h#P#kE#zOf#Ókó”

## ] hR#MEÓH

\$# OqOHEk#kóikóig Of i#OQLFK#hoj#LÓi.

é1 ÓiO#Q#HEjO# Ek#ÓQOj#RiO#E#d#P#E#Y#F#D#Y#G Oj#LÓi#Q#F#Q#k#L#O#Q#R#E#L#P#Ó#i#F#i#E#O#G Of iÓRiO#  
j#h#M#Ó#k#j#d#P#k#Ó#i#F#M#L#O#E#:#M#F#F#F#O#i#F#E#k#i#F#P#P#k#j#k#k#i#F#M#L#O#Q#d#j#i#O#F#O#j#i#k#q#i#h#O#E#z#Q#O#H#E#j#O# #d#L#k#j#L#O#  
L#d#P#E#d#j#k#j#z#L#O#Q#R#E#L#P#Ó#i#O#k#Ó#i#F#E#E#E#F#E#G#O#k#Q#j#h#M#Ó#k#j#Q#Ó#F#R#O#Q#L#i#O#Q#O#P#E#k#O#z#Q#O#F#i#d#Ó#F#P#E#k#L#  
L#M#L#O#k#i#O#P#j”

D#Oj#i#Ó#F#P#Q#Ó#h#Ó#i#O#F#Y#d#G Oj#L#E#F#F#M#F#Q#Ó#j#O#P#k#O#Q#Q#k#ó#i#k#ó#i#G Of i#Ó#i#k#i#k#i#O#j#Ó#F#P#L#O#k#Ó#E#k#Ó#F#Q#O# #  
C# OG EFj#i#Ó#i#O#z#Q#O#F#i#L#P#E#d#j#k#j#Ó#F#P#O#k# Of iÓRiO#k#d#E#z#k#ó#i#k#ó#i#O#P#M#F#E#Q#O#H#E#j#i#Q#E# Ó#i#O#k#Ó#j#

B#Q#Ó#h#Ó#i#O#k#E#Q#j#j#Q#E#F#z#M#k#Ó#i#E#F#j#Ó#F#P#P#O#q#O#E#k#j#G#h#Ó#i#E#F#E#G#E#P#O#j#Ó#F#P#E# Ó#i#O#k#Ó#O#F#O#M#d#P#Ó#Ó#F#Q#j#z#L#L#O#Q#Ó#k#E#j#  
k#ó#i#k#ó#i#G Of i#L#d#P#E#d#j#k#j#z#O#G Of i#Ó#i#E#F#Ó#H#O#k#Ó#i#Q#O#j#j#i#h#P#k#P#F#F#L#O#Ó#R#E#L#Ó#i#E#d”

A#L#k#Ó#k#Ó#Ó#Q#E#j#i#R#O#F#O#z#i#Ó#j#j#O#j#G Of i#E#z#F#Q#O#j#i#G Of i#Ó#F#P#E#k#Ó#i#E#F#M#Q#E#j#ij#F#P#O#k#Ó#k#E#j#j#Q#O#F#Ó#k#E#j# #

@#Q#Ó#h#Ó#i#O#L#O#k#E#j#j#R#k#i#O#j#z#L#L#O#j#G#h#Ó#F#O#E#j#E# Ó#F#h#z#Ó#i#h#O#E#z#h#O#j#j#P#P#O#P#é#Q#Ó#H#O#Q#L#O#G#k#Ó#H#j#Ó#F#P#E# Ó#i#O#k#Ó#j#z#E#G#  
R#d#é#k#E#P#h#Q#i#j#z#L#G#O#P#P#h#E#M#k#ó#i#k#ó#i#G Of i#E#k#L#Ó#z#Q#j#j#E#F#M#F#F#E#L#i#Q#L#Q#E#F#j#i#k#h#i#O#j#Ó#R#E#h#i#A#=#E#z#L#Ó#i#Ó#H#O#  
E#z#L#O#E#Q#E#G#F#M#E#E#E#P#Ó#F#E# Ó#i#O#k#Ó#”

# ] hj · KE8hOIÉ 3 Od PÓiÓ

- ] hj iÓKFORH# KEzhOH#FFEqÓiKEFj#F# KEoiLÓFEI# KEPhQiKEF#\OQLFEHEMKOj
- iKEUQi#dko #0 EkPIQ#FOkMd# KEUQi
- ·hPMoi ,
  - \$@# KE#hKE
- :hkÓiKEF #B#OÓkj#D=\$=ÉD=\$B.
- iÓkiFOkj ,
  - ;EEkPFÓiEk## 5D \98
  - FPhjikd# iÓiEK#lOdÍOFp# Óikj
  - /iLOkj #\ \# \ [ # 85#FFqOFiÓ

# ] hj · KE8hOHé / R.ØQikqOj

## 1 ÓK#MEÓF:

\E#Ók#d#h#i#k#ó#í#é#l#k#h#m#l# #Q#O#F#Q#O# #Ó#P#F#M#E#E#F#E#q#ó#í#k#F#j# #G#H#L#O#Q#O#F#í#ó#í#k#k#E#P#h#Q#i#E#F# #Q#L#F#E#H#M#I#O#j# #E#k#Q#E#F#Q#O#k#j# #E#F#E#z# #H#M#F#E#Q#O#H#H#E#j#Q#P#R#E#G# Ó#j#j# #F#i#E# #Q#O#E#F#P# #M#O#F#O#K#ó#í#k#F# #R#E#O#i#L#Ó#F#E#H# #L#O#j#O#Q#O#F#í#ó#í#k#k#E#Q#O#j#j#O#j# #F#Q#H#P#O# #k#ó#í#k#O#í#G# O#F#i# #L#D#P#K#E#d#j#k# #Ó#F#P# #O#K# O#F#í#ó#í#k#F# #

## ] hRMEÓHj .

\$ # O#q#O#H#E#K#G# O#F#i#E#z# #E#k#Q#O#F#i#k#E#Q#O#j#j#O#j# #E#k#ó#í#k#O#í#G# O#F#i#E#z# #E#k#P#I#Q#H#M#F#E#Q#O#H#H#E#j#Q#P#R#E#G# Ó#j#j# #j#E#z#i#F# #E#E#P#Ó#F#P# #í#k#F# #R#d# #Q#K#Q#i#q#O# #K#G# #E#q#ó#í#k#z# #M#F#E# #j#k#M#E#F#I#Q# #R#H#P#j# #Ó#F#P# #E#k#E#M#Ó#F#I#Q# #E#k#O#F#i#j# #

D # O#q#O#H#E#K#G# O#F#i#E#z# #E#k#Q#E#j#i#ó#z#Q#i#k#Q# #k#E#Q#O#j#j#O#j# #E#k#Ó#F#Y#d#G# Ó#i#Q# #L#D#P#K#E#d#j#k# #z#Q#O#H#H#E#j#O# #R#d# #j#i#Ó#R#H# #L#K#M#Ó# #E#q#O# #Q#L#F#E#H#M#d# #E#k# #k#Q#Q#H#M#E#z# #F#Y#d#G# #j# #

C # O#q#O#H#E#K#G# O#F#i#E#z# #E#q#O#H#L#O#G# #E#k#L#K#Q#G# #Q#E#E#M#Ó#F#K#G# #j# #E#k#R#E#O#i#L#Ó#F#E#H# #k#E#P#h#Q#i#E#F# #R#d# #K# #j#E#Ó#í#k#F# #E#q#O#H#L#O#G# #E#k#L#K#Q#G# #Q#O#H#H#E#d#i#Q# #E#M#Ó#F#K#G# #j# #L#Ó#í#k#E#P#h#Q#O# #M#F#I#Z#Q#Ó#F#i#k# #E#k#O#i#L#Ó#F#E#H# #L#Ó#F#E#F# #F# #í#k#F#j# #E#F#Q#O#H#H#E#j#O# #K# #M#O#F#O#i#Q# #F#M#E#F#O#O#K#E#M#E#z# #O#K#Q#I#O#P# #j#i#k#F#j# #F#Q#H#P#E#M# #L#O#G# #E#Ó#F#Ó#k#E#R#Ó#i#k# #j#í#k#F#P#I#Q# #E#k# #P#O#Q#Ó#j#O#P# #k#E#P#h#Q#i#E#F#E#z# #R#d# #k#E#P#h#Q#i#j# #G# #j#k#E#k#E#P#h#Q#i#E#F#E#z# #Q#O#H#H#Ó#j#O#j# #G# #E#k#Ó#z#Q#O#F#i#ó#i#L#Ó#F#E#H# #k#E#P#h#Q#i#E#F# #Ó#F#P# #R#O#i#O# #M#E#F# #i#L# #k#E#k#O#k#i#O#j# #

B # #k#i#G# #Ó#í#k#F#E#z# #L#O# #O#K# O#F#í#ó#í#k#F# #k#E#Q#O#j#j#O#j# #R#d# #K# #j#k#M# #L#O# #E#q#O#H#L#O#G# #E#k#L#K#Q# #í#k#F#j# #j#E#Ó#í#k#F# #Ó#F#P# #P#O#q#O#H#E#K#O#P# #G# #H#L#O# #k#E#Q#i#q#Ó#F#P# #K# #P#O#q#O#H#E#K#G# O#F#i#E#z# #O#K# O#F#í#ó#í#k#F# #k#E#Q#O#j#j#O#j# #K#L# #E#F#Q#Ó#j#O#P# #k#E# Ó#i#k#Q#E#F#i#O#F#i# #j#k#M# #R#H#E#j#O# #O#K# O#F#i#k#M# #í#k#F#j# #E#z# #] #Ó#Q#L#Ó#E#G# #d#Q#j# #Q#O#K#j#K#C# #K# #j#k#M# #k#ó#í#k#O#í#O#P# #R#E#G# Ó#j#j# #k#E#P#h#Q#O#P# #G# #H#L#O# #k#E#Q#i# #

A # #k#E#Q#O#j#j# #Q#E#F#Q#O#k#i#h#Ó# #j#M#F#E# #Ó#i#k#í#Ó#F#P# #F#O#M#d#R#Ó#Ó#F#Q#j# #Ó#F#P# #Q#E#j#i#R#O#F#O#z# #Ó#j#j#O#j#G# O#F#i#E#z# #Q#L#F#E#H#M#I#O#j# #P#O#q#O#H#E#K#O#P# #j# #k#ó#í#k#E#z# #L#O# #k#E#Q#i# #E#k#P#O#k# #E# #P#O#i#O#K# #F#O# #H#L#O# #Ó#j#R#K#d# #

# \LO# KE/ K# OzFOkd#kEJQj

- \LO# KE/ K# OzFOkd#kEJQj
- ikEJQj#dko# · 5i' koj00kQL# EhFOKEz# EkfÓd
- ·hPMoi,
  - \EiÓH# ÁG K#hke
- :hkÓiKEF#D#00kj
- iÓkiFOkj,
  - ;EEkPFÓiek##i8!
  - 5Phjikd# iÓiEK# EFG OF# âPKÓ# KEFPLOK# DFOKMSREKMIÓFMOF#\_OIji
  - /iLOkj# jIEF# FKQkjKd

# \LO# KEK# OzFOkd é 7 EÓHj

## 1 ÓK#MEÓ#

- : OqOHEk#ÓFP•Ek#G EPKz#OQLFEHEMd#Ek#kEPHQFM#REÉEK
- LhÓHKIOj#kEG #EEP#EMM#EM#OjKPhoj#hKÓRIO#Ek#
  - kOkÍQKFM#Ejj#LÓÓiKFM#EKj
  - zkiLOk#hKÍOPKFM#E#kÓFjkEkiÓiKFM#hOHj

## ] hRAMEÓHj

- 8KFP#ÓF#ÓHOKFÓiKQ#hj iÓKÓRIO#G OILEP#Ek#ÓjL#OG EqÓ#E LIQL#  
ÍDÓqoj#G KFG hG #FEK#MÓFQÓjL#G#LO#REÉEK
- : OqOHEk#OOP#G K#kEiEQEHj#Ek#kEPHQFM#KMI#K LÓjO#REÉEK
- 9j iÓRHjL#Ó#kÓQ#iQÓ#hKPOHFO#Ek#ÓqÓhÓiKFM#REK#hKÓRKId#  
f KIL#OjKQO#E#REÉEK#DEG Rhj iKFM#ÓFP#OqÓhÓiO#LO#OOP#Ek#  
ÓPPKIOj#ÓFP#Ejj#hOH#hKkEK#REÉEK#DEG Rhj iKFM

# i^ / 85 \ ' 3 Od # PÓiC

- i kEzKÓRIQ#R EOfOKMd#ÓFP#kÓkOk#kEPhQikEF#LkEhML#FFEqÓikQ#  
kÓf #G ÓiOkÓ#ÓFPHEM#ÓFP#kEQOjj#EiOMkÓiKEF
- i kEQQi#dkO , 5i# ^OjOókQL# EhFjKEz# Ekf Ód
- .hPMoi
  - \EiÓH#BÁG K#PhKE
- :hkÓiKEF B#Oókj#D==<|´ D=\$C.
- iÓkiFOkj ,
  - ;EEkPFÓiEk#Z \ \ #\OQLFKÓH# ^OjOókQL# OFiOk#Ez#KfÓFP.
  - 5Phj ikd #\EiÓH#Ez# #Phj ikd#kÓkiFOkj
  - /iLok# LÓG Okj#D \0 [



i^ / 85\€ 7EÓHj

PROFIT aims at establishing innovative systems and technological solutions for integrated raw material and heat handling in a paper mill, waste combustion plant, pellet plant and a synthetic biofuel plant, opening for:

- Considerable increase in wood logging for bioenergy purposes, amounting to min. 0.4 TWh/year, only in the Follum case, however with considerably higher potentials.
- Development of a new, innovative fractionation system for chip handling, allowing for a more optimal use of the wood raw material
- Cost-effective production of pellets
- Cost-effective production of synthetic biodiesel
- A step-change in critical pulp properties (e.g. strength, variation, optical properties, energy consumption) ensuring more uniform and improved TMP pulp quality.

# Î 8 / ^ 9 | ' 3 0 d # P Ó i C

- Î P P O P é o h o # k E G # Q L O G K O H j # Ó F P # k E L G O k j # R d # F O F # F i O M k Ó i O P # j O k Ó k Ó i K E F # z Ó Q i K E F Ó i K E F # Ó F P # h k M k Ó P K E M # O Q L F E H E M K O j
- i k E U Q i # d k O 9 [ # k E U Q i
- · h P M O i
  - ] 5 \ 9 8 # 9 [ ^ # < A # ? —
  - \ E i Ó H # 9 [ ^ # \$ = # = \$ # B C \$
- : h k Ó i K E F B # O O k j # D = = < # D = \$ C ..
- i Ó k i F O k j
  - ; E E k P K F Ó i E k # z \ \
  - F P h j i k d # # â P k Ó # O H # Ó F K j Q E j # L i O # k Ó F K i # 0 Î \ 9 X 1 # B ; H ´
  - / i L o k # E i Ó H # z # D = # k Ó k i F O k j

# Î 8 / ^ 9 / R. DQ i K q O j

/ q o k Ó H # E R. D Q i K q O , [ k m Ó P K F M # E z # L O # B k Ó z i # k h k K F M # k E Q o j j # F i E # Ó # G h H i K k E P h Q i # R i E k O z F O k d # Q E F Q O k i

- 9 Ph Q Ó i o i L : # Ó F P # ] Q Ó F P K Ó i o j # k Ó F l h Ó H K O P # o j o Ó k Q L o k j ”
- i Ó i o F i # Ó F P # k h R H K j L k o j o Ó k Q L # o j h H i j ”
- ; E E k o k Ó i o Q E j o i d # K L # F P h j i k d # Ó F P # o j o Ó k Q L # F j i k h i o j # K L F # o j o Ó k Q L ”
- 9 j i Ó R H K j L z E G Ó H K F i j # E # o j o Ó k Q L # M e h k j # F # h k E k O
- 9 j i Ó R H K j L Ó P q Ó F Q O P # Ó R E k Ó i E k d # Ó Q K K i o j ”
- : O q O H E k ` ; Î # Ó F P # Q E G k h i Ó i E F Ó i # G E P O H j } ] Q Ó H F M é h k z E G # Ó R # Q Ó i o # E # z # H # Q Ó i o
- : O q O H E k O F i K O d # O F # E E P Ó R Ó j O P # R i E k O z F O k d # Q E F Q O k i j ”
- i O k z E G Q Ó j o # j i h P K o j # F # Q E j o i d # E E k o k Ó i E F # K L # F P h j i k d # Ó F P # o j o Ó k Q L # F j i k h i o j

# 9hke · KE^ Oz´ 3 Od#PÓiC

- 9hkeOÓF#G hHKOQO#F iOMkÓiOP#REkOzFokd#POjMF#Ek#hj iÓFÓRIQ#REG Ójj# kkeQOjjkEM
- ìkeUQI#dkO 9 [ #keUQI
- ·hPMoi
  - ] 5 \98 ##### [ ^ @ \$ < # A –
  - ·EkOMÓÓkP # [ ^ # C # == # ==
  - \EiÓH# [ ^ # C – # ? B # AC
- :hkÓiKEF B#lOÓkj#D=\$=|´ D=\$B.
- ìÓkiFOkj ,
  - ;EEkPFÓiEk## 0 ^ ]
  - FPhjikd #k iOG Ó# EkOMÓÓkP#EoEYdG Oj| #Ekjbo#l OkQI#l OiÓREHQ#OrkHEkOk# [G IQEkO”
  - / iLOk#EiÓH#EzD – #kÓkiFOkj

# 9hke · KE^ Oz´ / R∞Qikqoj

/ qokOH#ER∞Qikqo , \LO#phke · KE^ Oz´ QEFQok i#k# #ÓF#F iOMkÓiOP# #hj iÓKÓRiD#ÓFP#PIqOkj KZOP#  
RKEkOzFokd#LÓi#E K#ÓFÓRiD#ÓKMOéjQÓH#Koj oókQLi#Oj iKFM#Ek iG KÝÓiKEF#ÓFP#  
POG EFj ikÓiKEF#Ez#kEQOj jOj #F#LO#kEPhQikeF#Ez#Ó#E KPO#ÓFMO#Ez#kEPhQij#E KIL#LO#  
PhÓ#ÓIG #E#hjo#ÓH#KÓQikeFj#Ez#qÓKEh#RKEG Ój jOj#ÓFP#DrkHEK#LOK#KEiOF iÓ#E#  
kKEPhQO#LO#L∞MLOj i#qÓH#Ej j KRD#F#ÓF#QOEÓZZiQOF i#ÓFP# #hj iÓKÓRiD#E Ód”

- 9PhQóio iL: #ÓFP# ] QÓÓFPKÓioj #kÓK l#hÓH#ZOP#Oj oókQLokj ”
- iÓiOF i#ÓFP#kHRKjL koj oókQL #oj hHj ”
- ; EEkOkÓio QEjOnd#E KIL#FPhj ikd#ÓFP#Oj oókQL #Ej ikhioj#E KIL#F#Oj oókQL#ÓFP#POG EFj ikÓiKEF”
- 9j iÓRHjL zEK Ó#FIj#E#Oj oókQL#M#Ehkj#E#phkeko
- 9j iÓRHjL ÓPqÓFQOP#ÓREkÓiEk d#ÓQKKiOj ”
- : OqOHEk ` ; Î#ÓFP#QEG khiÓiKEFÓ#E EPOHj # QÓHFmÁk zEK #ÓR #QÓH#E#h#H#QÓH ”
- : OqOHEk kehioj#Ek#LO#h iKKÓiKEF#Ez#Ó#ÓMO#PKQokj Kd#Ez#hj iÓKÓRiD#RKEG Ój j ”
- : OqOHEk#qÓH#ÓPPOP#M#COF#QLOG KÓHj #zEK #M#F#EQOH#HEj iQ#COOPj iEQI
- iOkzEK Qójo# #ihPKOj#E#QEjO#QEEkOkÓiKEF#E KIL#FPhj ikd#ÓFP#Oj oókQL #Ej ikhioj

\LÓFI#dEh#zEk#dEhk#ÓiOFiKEF