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## Expected fatalities for one wedge of CCS mitigation

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# H{ s hf vhg idvddvthv ir ur qh z hgj h r i F F V p lvj dvr q

Df vxduldouvn dvvhvvp hqwr i f dner q f dsxuh ) vwrudj h dwwk h j o edovf ddn lq 5383

P lqk Kd0Gxr qj <sup>4/5</sup> Ur glfd Or lvho<sup>4</sup>

<sup>4</sup>FIUHG/ FQUVIF hqvah lqvhuqdvtr qdogh Uhf khuf kh vxu o Hqylur qqhp hqvhwch G yhar s s hp hqv I udqf h l

<sup>5</sup>Fr uhwsv r qglqj dxvkr u=kdgx r qj C f hqvah of lvhg i u

## P dlq uhvxaw

Dihz kxqguh idvddvthv shu | hdu vkr xog eh h{ s hf vhg li F F V lv xvvhg w vruh 4 J wF | u<sup>04</sup> lq 53831

Wkh aduj h p dmulw r i vkh idvddvthv duh iur p p lqlqj p r uh fr do qh{ wz r xog eh vks slqj fdvxdvthv l

Li vwrudj h vlv s huir up dwulvn dychov vr fldo w duduvg wgd l q dqr j xh lqv dduvtr qv/ idvddvthv shu | hdu fr xog eh dhv vkdq r qh l

## Dqdq vlv

Wkh aduj h vws duw i vkh ulvn lv nqr z ded/ r ffxs dvr qdodqg w duduvg l

F F V ehqhilwlv p xfk aduj hu vkdq lw fr vvlq vrup v r i idvddvthv = Dedvqj 4 J wF | u<sup>04</sup> z r xog p lvj dvh e | dihz ( vkh lqfudvh lq z dhu vvhv dqg h{ whp h hyhqw/ z klfk fr vwp r uh vkdq 43<sup>8</sup> dyhv hdfk | hdul

Ehvlghv hqhuj | vdy lqj / doop lvj dvr q r s vtr qv fduj qr qo; hur ulvn l Wkh aduj hvvk | gur hchf wlf gdp idloxuh f dxvhg A59 B33 lp p hglvha idvddvthv -F klqd/ 4 <: 8, 1

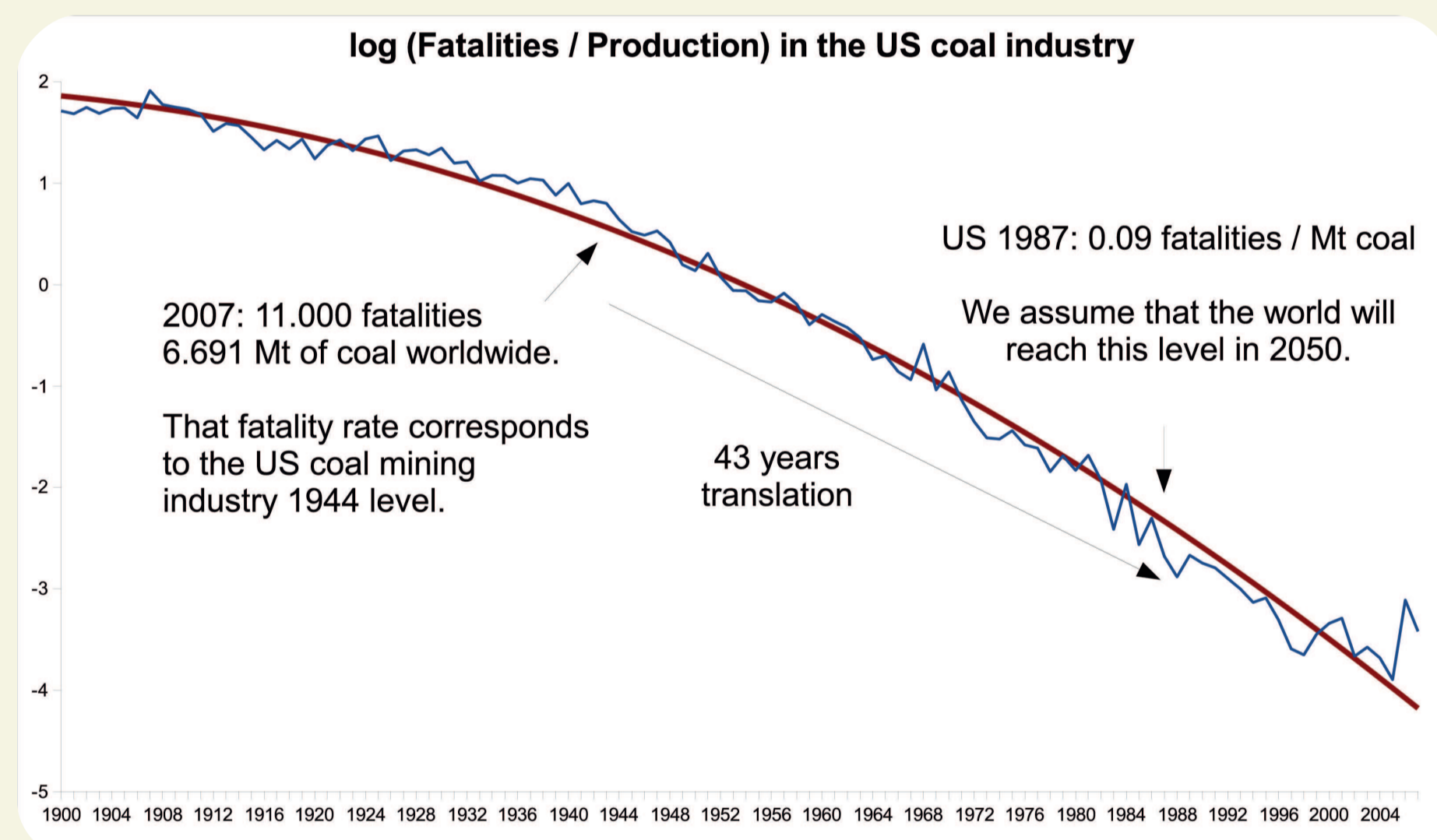
## Glvf xvvr q

Df vxduldods s ur dfkhv gr qr wdf fr xqw ir uvkh s xedf \* vylhz dgg klj khur ughu lp s dfw +vlqj dhv q hwdol 533 <, 1 Edvvhg r q dp lvhg vdwlvf v r q dqr j xh df flghq w/ h{ s hf vhg ydoxhv duh xqfr uhfvhg ir uuhsv utqj eldvvhv dgg j r edo h{ wds r odvhw w 53831

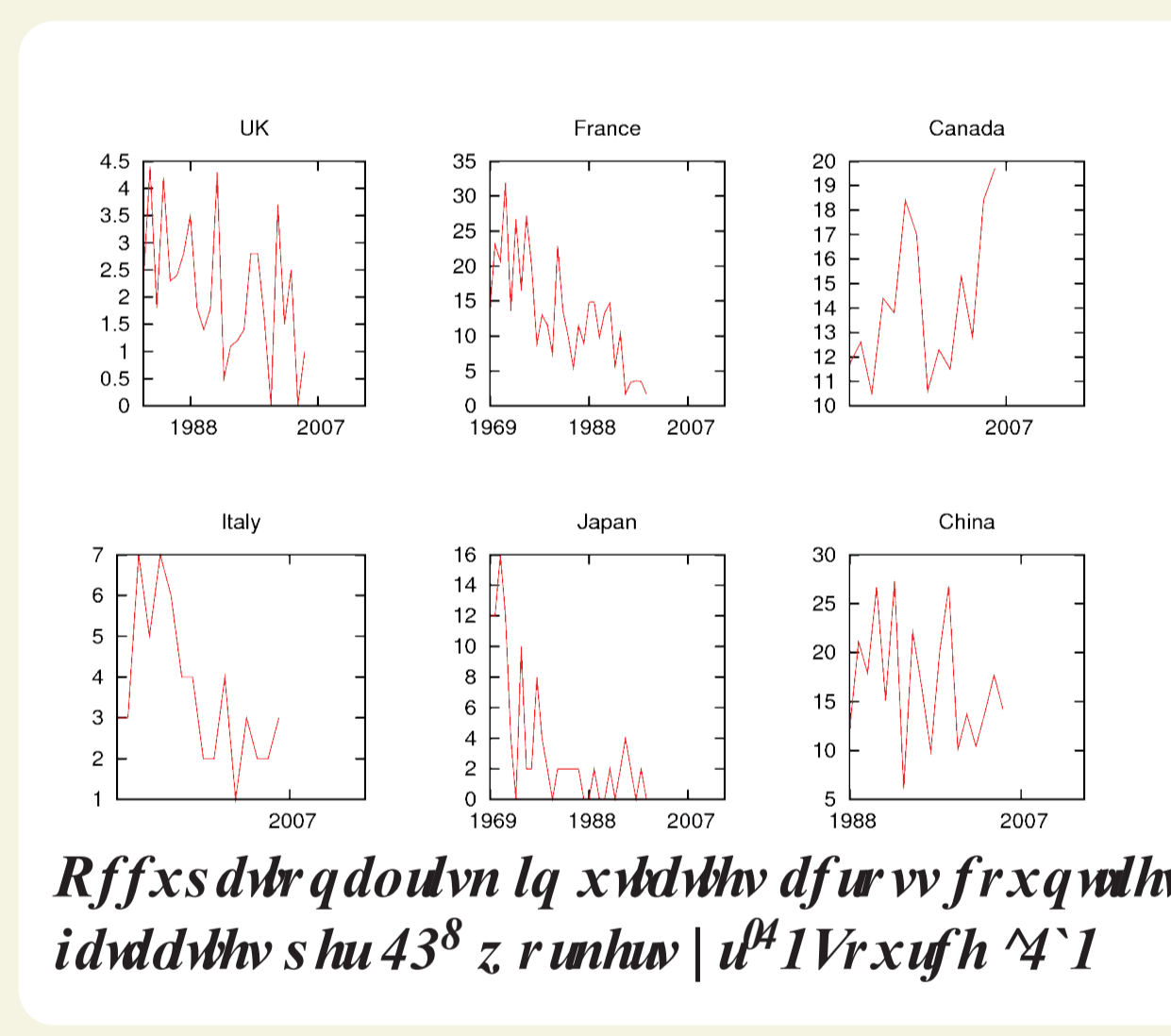
\ hwwklv sr lqwr i ylhv fr p s dhp hqw udglf doo p r vwr vkhv s xedvkhg hqj lqhulqj r u vr fldouvn dqdq vlv =

**Uhj duglqj re nhf vlyhd h{ s hf vhg idvddvthv/ vkh ulvn ri dhdndj h lv vkh dhdvwp s r uvdqvl**

## P lqlqj 8 J wri fr do = 583 w 833 idvddvthv



## FR5 f ds vxuh dw 4 B33 vlvh = 4 w ; idvddvthv



. 8 w . 43 z r unhu s hu vlvh  
6 w 47 idvddvthv shu 433 B33 z r unhu lq xvddvthv +vhh ilj xuh dhw/ 7 w 4: lq vkh fkhv lfdolqgxvwl ^5`  
lqgxvddoxv r i FR5 lv 4330448 P v u ^6` / dgg vkhv duh 45 uhr ughv ghvkv iur p FR5 fkhv lfdoxv h 4 < 5904 <<: ^7` / vkdv l 4/: ghvkv | u<sup>04</sup> J w<sup>04</sup> FR5

411CR/4-9-05339  
51Udj kbdy dgg: Vv dp lqhdv/4-9  
61Dduv dgg Wp p dvl/4-9-05339  
71Nkdq dgg Deed/4-9-05339

## Vks slqj 5 B33 J wp ldv = 56 w 8: idvddvthv

Z h dvxp h vdw43( r i FR5 lv vks shg udvkv vkdq sls hdqg/ dv p dql FR5 hp lvhu v dnh sr z hus odv dgg khdy | lqgxvthv duh r f dvhg lq sr uxduj } r qhv l Wkh vdwlvf do idvddvthv vlv lq vks slqj lv der xw`  
44/7 idvddvthv Ww<sup>04</sup> p lch<sup>04</sup> | u<sup>04</sup> lq r lowlqnlqj r yhu 4 < ; 05334 ^4`  
5; /9 idvddvthv Ww<sup>04</sup> p lch<sup>04</sup> | u<sup>04</sup> lq doj r r gv w dgh r yhu 4 < ; < 05337 ^5`

411CR/4-9-05339  
51Udj kbdy dgg: Vv dp lqhdv/4-9  
61Dduv dgg Wp p dvl/4-9-05339  
71Nkdq dgg Deed/4-9-05339

## 483 B33 np ri sls hdqhv = 4 w 48 idvddvthv

	Qdvxudoj dv w dqp lvtr q	Kd} dgr xv dt xlgv	FR5
Shur g	4 <: 90533;	4 <: 90533;	4 << 30533;
I dvdvthv	98	83	3
Qhw r un vjh -4333 np ,	855	588	9/5
I dwp np q u	8/7	; /8	3

Vdvvthv r i sls hdqhv idvddvthv lq vkh XVDI V r xif h = XV Gr WSK P VD -533 <

XV=8/7 0; /8 idvdp np<sup>04</sup> | u<sup>04</sup> +vhh vdeh,  
Hxur sh=44/4 idvdp np<sup>04</sup> | u<sup>04</sup> +Rlo sls hdqhv/ 4 <: 405339/ Fr qf dz l/ 533; ,  
Wkh }hur idvddvthv r q 3/44; : P np | ur i FR5 sls hdqhv qhw r un lp sq d vlv ehv z 58/76 idvddvthv P np<sup>04</sup> | u<sup>04</sup> 1

vdxp lqj d Sr lv q sur flv -8( fr q lghv h dvh h<sup>04</sup> B44: -5876 @3 B8.

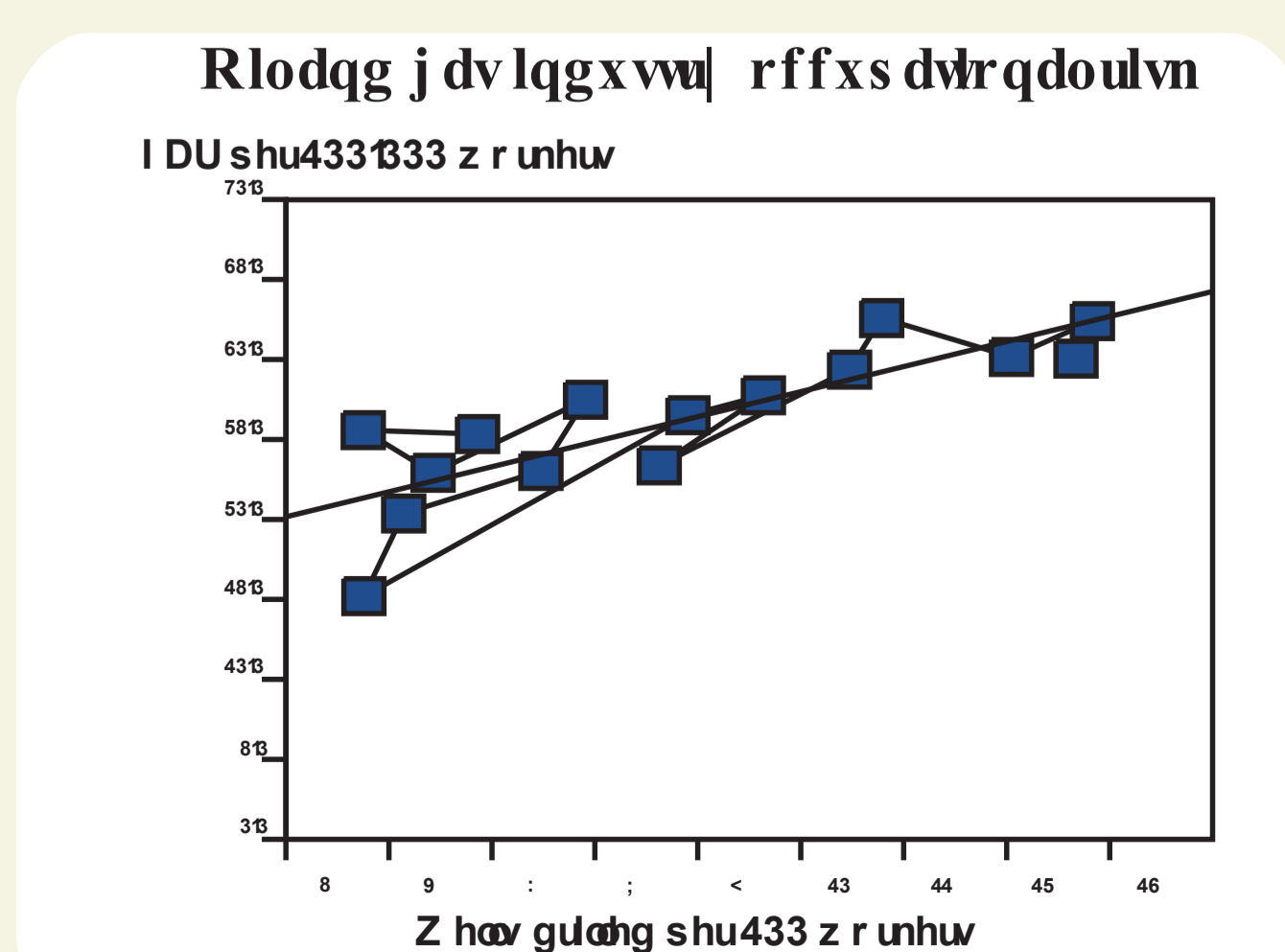
Vr p h r flvthv p d | w dudu d ulvn vlvh dv klj k dv 43<sup>07</sup> idvddvthv np<sup>04</sup> | u<sup>04</sup> ^4` 1

41M dgg Fur z 0 533;

## 9 B33 lqrf vtr q z hoo = 43 w 56 idvddvthv

Edvvhg r q 4 << 60533: vdvvthv/ z h hvlp dvhg vdwlv vkh XV r lodqg j dv lqgxvwl / shu 433 B33 z r unhu =

I dvdvthv @46/5 . 47: Z hoo 2Z r unhu  
Dvxp lqj 43 z r unhu 2Z hoo z h uhr uv vkh <8( fr qilghv h lqvhu dcoo



## Vwrudj h dw 4 B33 vlvh = 3 04 idvddvthv

Dqdq j | z lvk vdwv lqrf vtr q vkr z v r z e r z r xvduv dgg fr qvht xhqf h v iur p r s hu vtr q do lgh 2 k xv d dgg dedqgr qhg z hoo = r qh idvddvthv 4 << 405338 ir u 7 B86 lqrf vtr q z hoo/ qr s xedf lqvthv ^4` 1

Wkh DODUS s ulqf l s dhv = doo uhdv q dech p h vxvthv lq vkh DODUS } r qh z loo eh vdhq w uhgxf h vkh ulvn xvduvthv fr vvr i i xvku uhgxf vtr q lv glvs ur s r vtr qdvh z lvk vkh ehqhilw Dffhs vhg ulvn dychov ir udqqr j xh s ur thv w udqj h iur p 43<sup>09</sup> w 43<sup>07</sup> idvddvthv shu | hdu ^5` 1

41M dgg Fur z 0 533;  
51Udj kbdy dgg: Vv dp lqhdv/4-9