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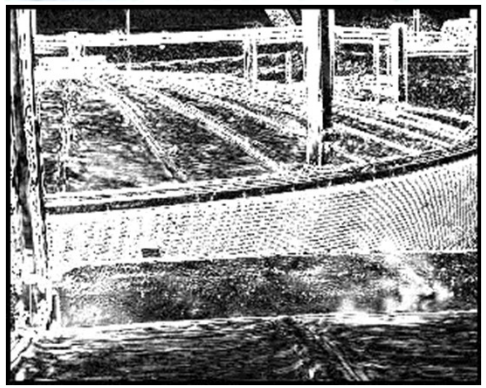

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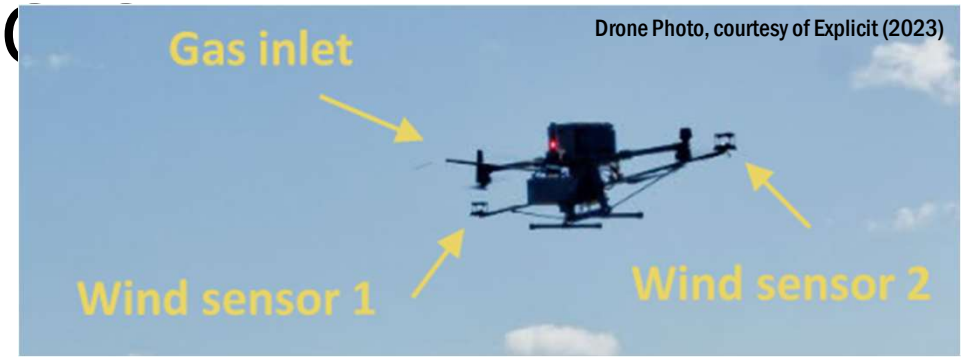
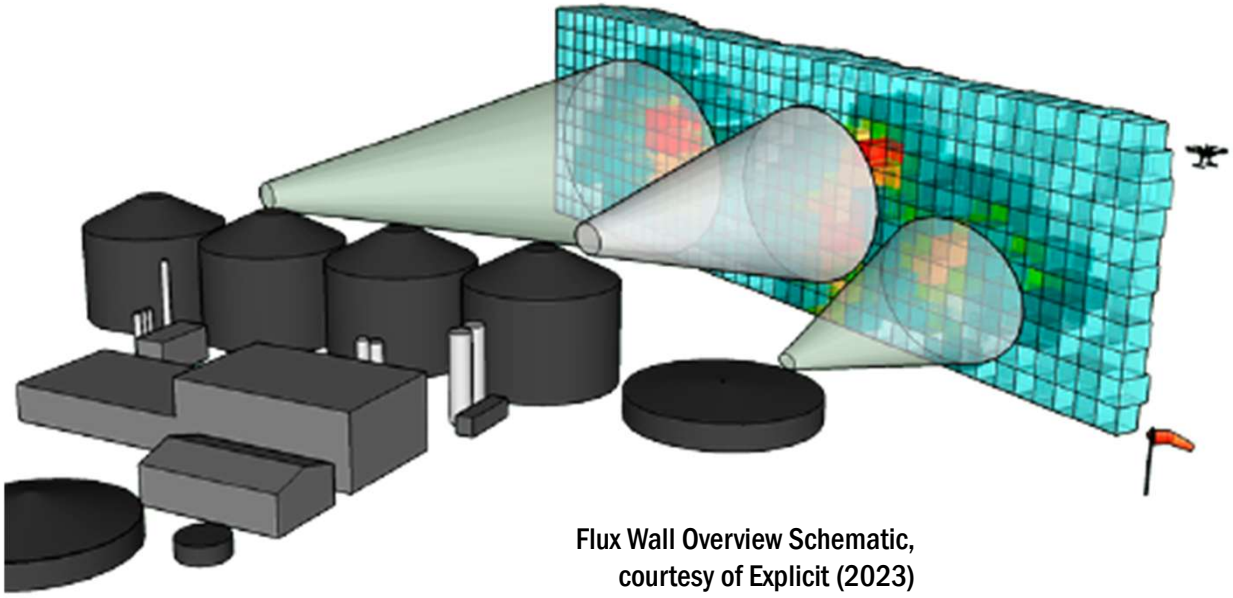


Drone Photo, courtesy of Explicit (2023)



Flux Wall Overview Schematic,
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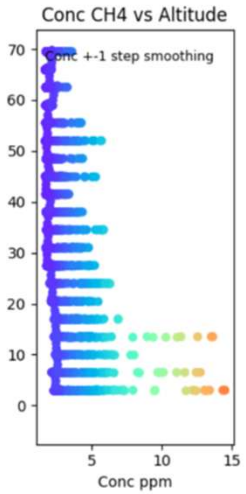

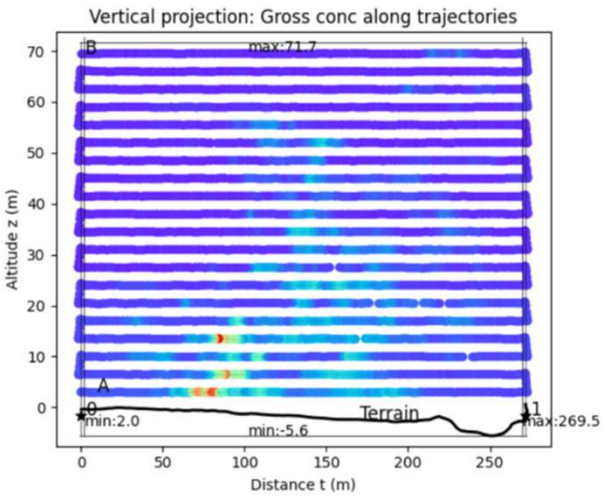

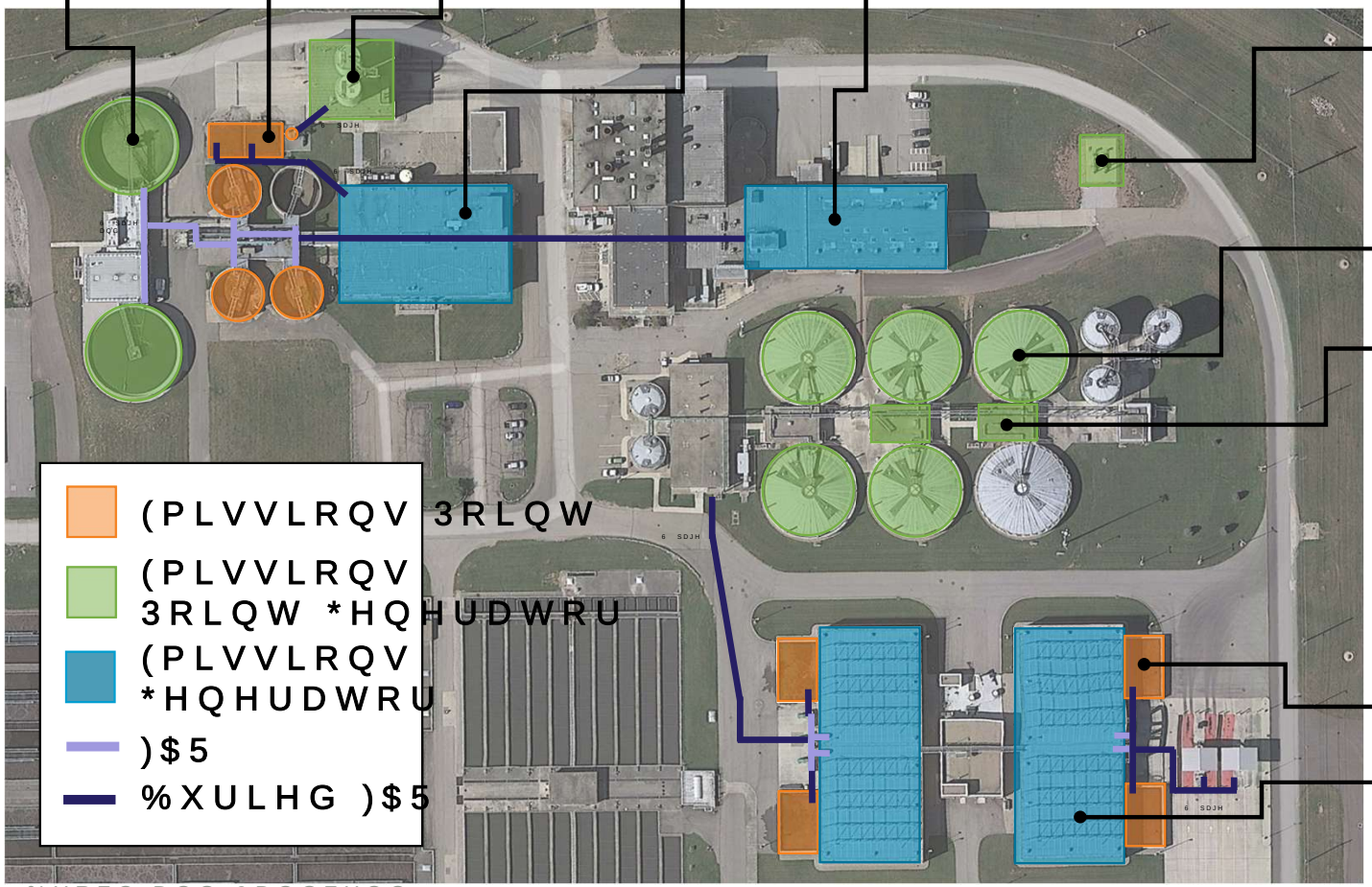

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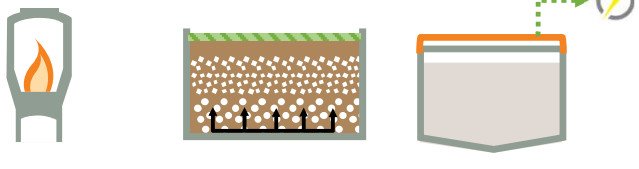

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1HZ 'LJHVWHU)L[HG &RYHU

- ,QWHQVL&DUE
- %LRJDV +DUYHVWHU $OWHUQDWLYH $QDO\VLV
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/&&$ &ODVV

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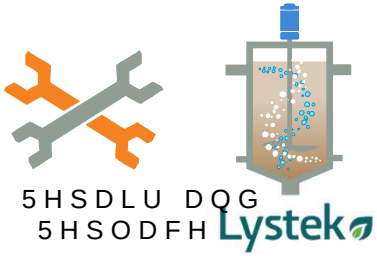

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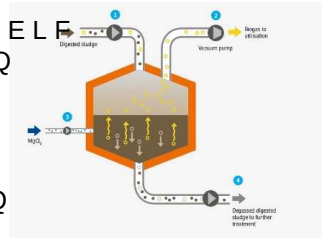

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ELIQUO TECHNOLOGIES

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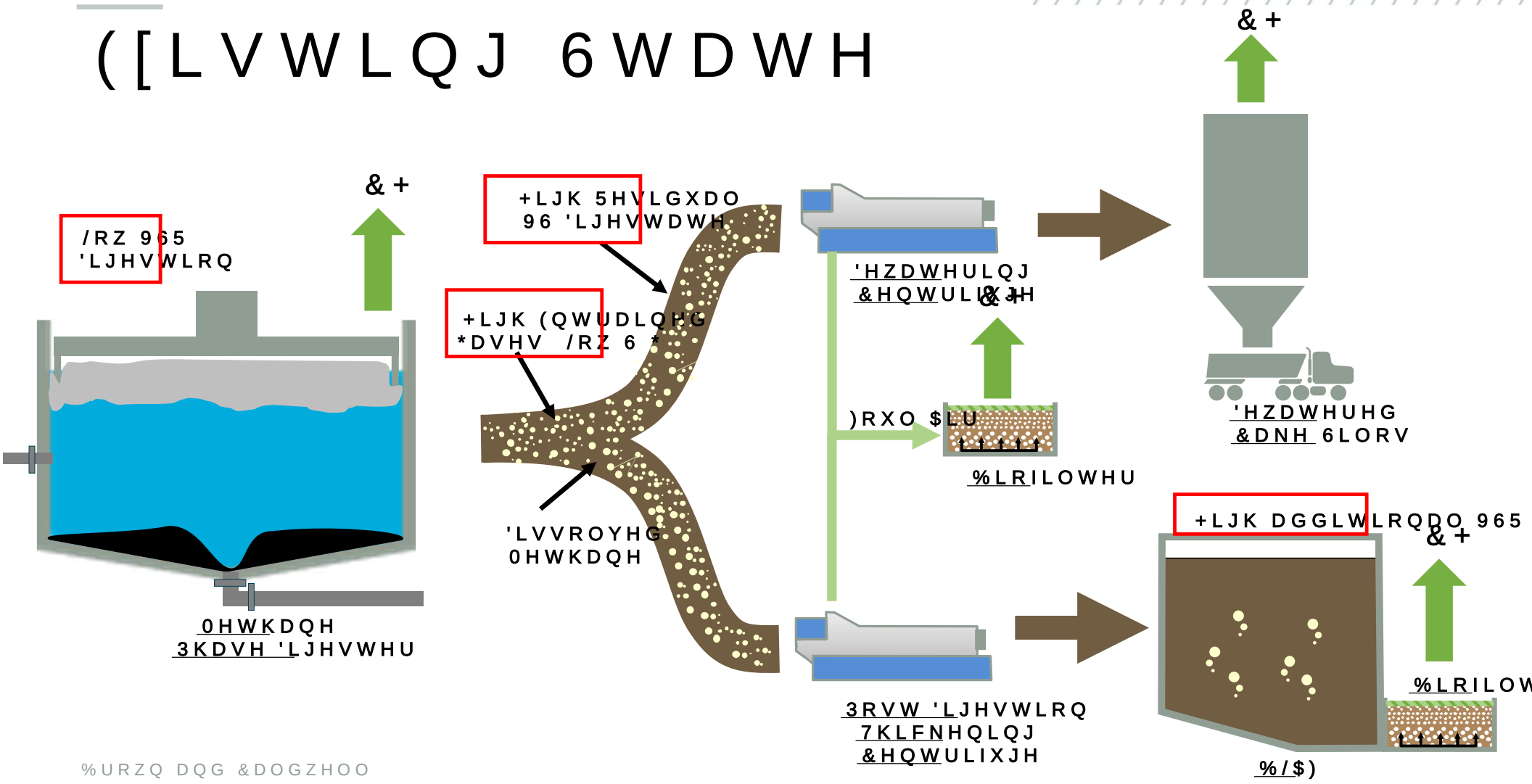

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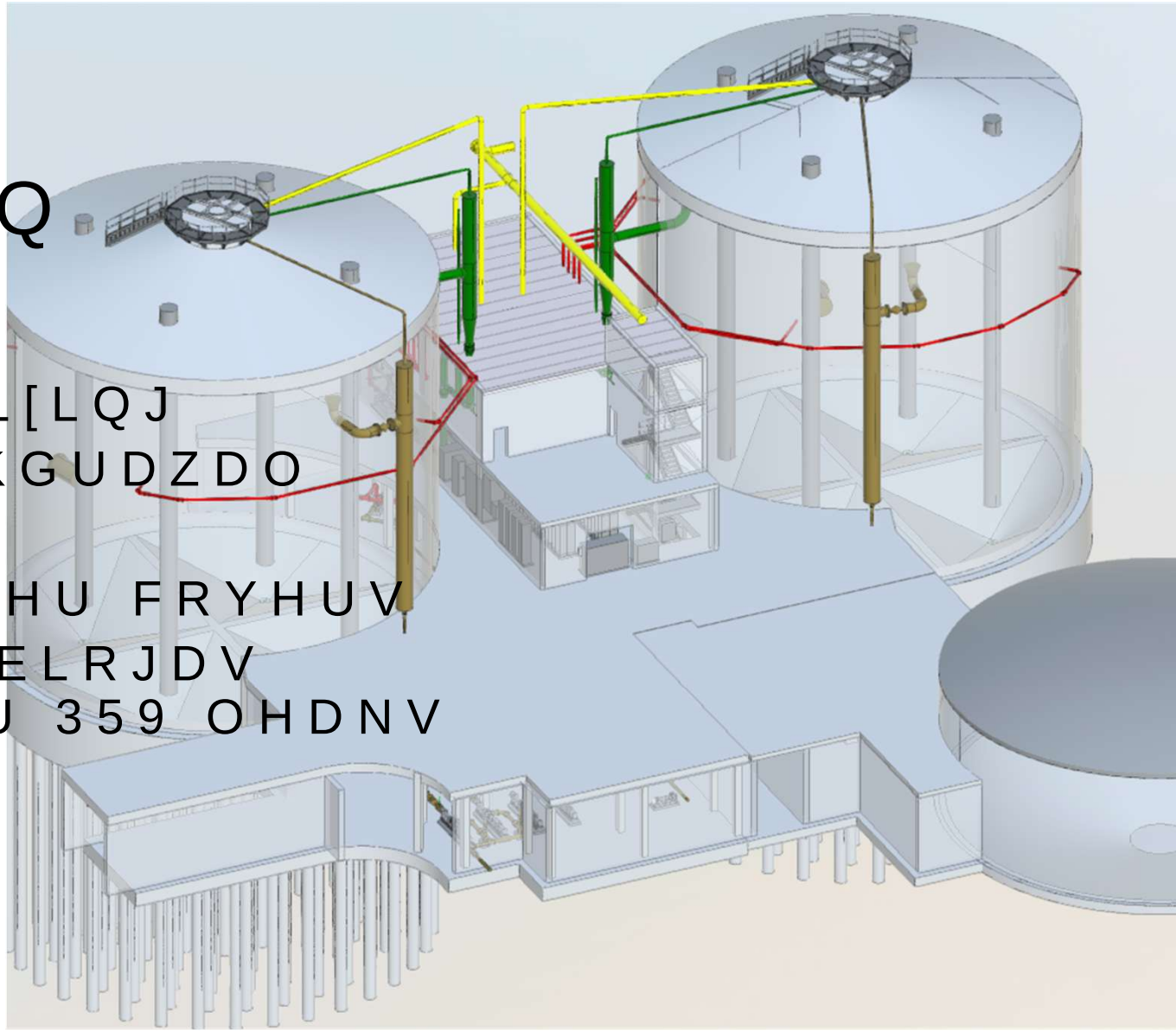

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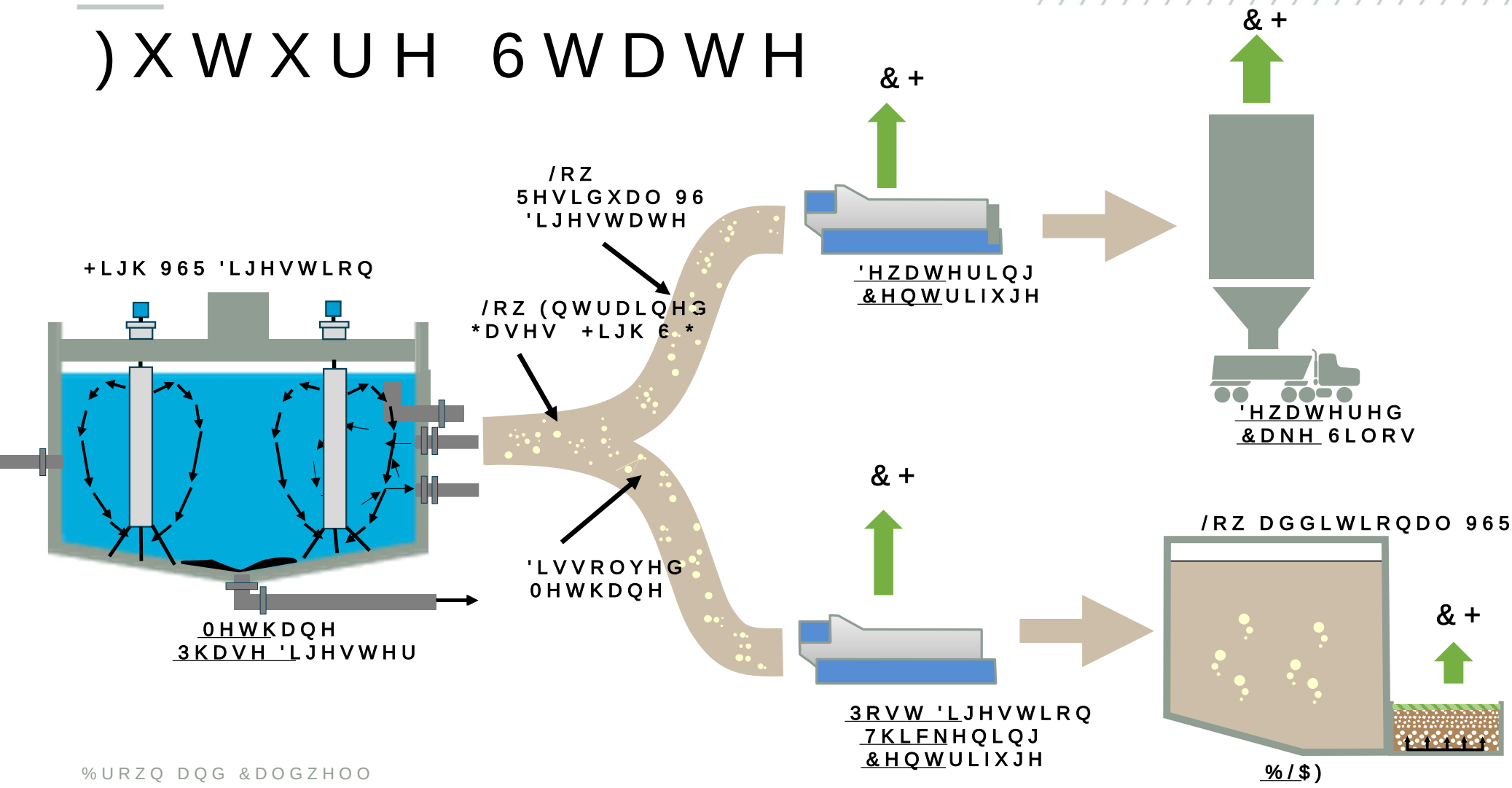
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& +
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& +
'HZDWHUHG &DNH 6LORV
& +
3RVW 'LJHVWLRQ 7KLFNHQLQJ &HQWULIXJH
/RZ DGGLWLRQDO 965
& +
%/$)

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)ORDWLQJ GLJHVW ZLWK SXPSHG PL[

%LRVROLGV KROGL WR RGRU FRQWU

%LRVROLGV WKLF DQG FRQYH\DQFH

3UHVVXUH UHGXF YDOYHV RQ PRVW V\VWHPV µ :&

%LRVROLGV +DQGOLQJ

PLOOLRQ 139

PLOOLRQ 139

1RW HIIHFWL
UHTXLUHV SLC
WHVWLQJ

6 ² $XJPHQWHG6 ² 9DSRU &RPEXVWLRQ
%LRILOWUDWLRQ 8QLW

6 ² 9DSRU &RPEXVWLRQ
7KHUPDO 2[LGL]HU

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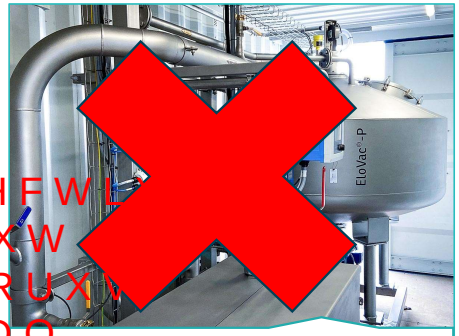


6 ² 9DFXXP ([WUDFWLRQ

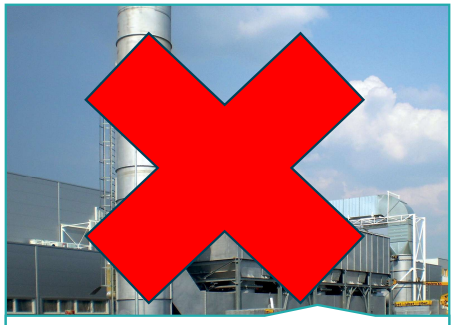
%/$) 2SWLRQV

0HWKDQH FRQWHQW WRR ORZ DW %/$) WDQNV

PLOOLRQ 139

1RW HIIHFWL
UHTXLUHV SLC
WHVWLQJ

% ² $XJPHQWHG %LRILOWUDWLRQ



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% ² 1HJHQHUDWLYH 7KHUPDO 2[LGL]HU

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FRQFUHWH Z

% ²)L[HG &RQFU

% ²)L[HG 6WDLQOHVV 6WHHO &RYHU

PLOOLRQ 139

6RXWKHUO\ %LRHQHUJ\ 3URMH

FUTURE

)ORDWLQJ GLJHVW ZLWK SXPSHG PL[

%LRVROLGV KROGL WR RGRU FRQWU

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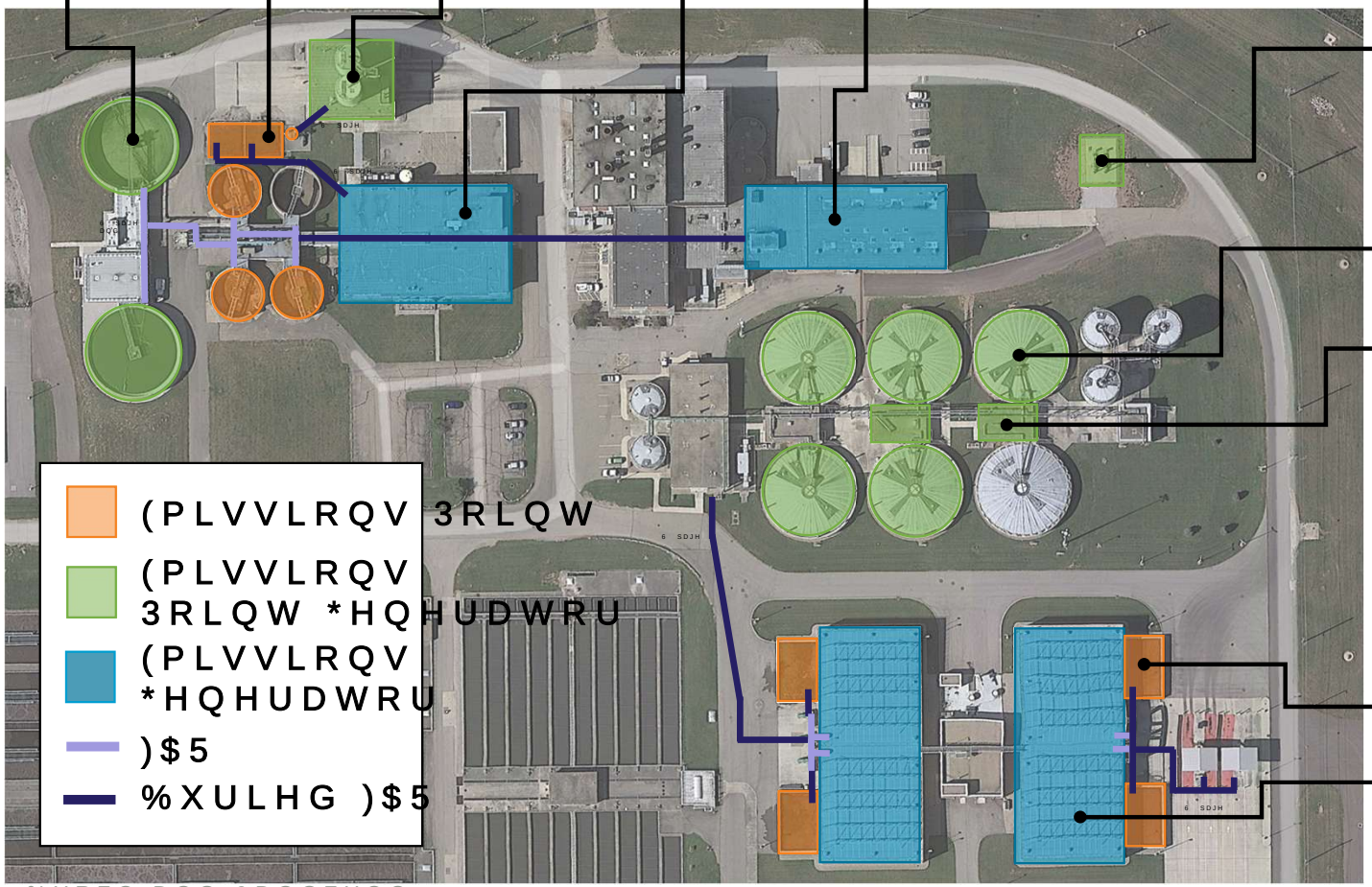

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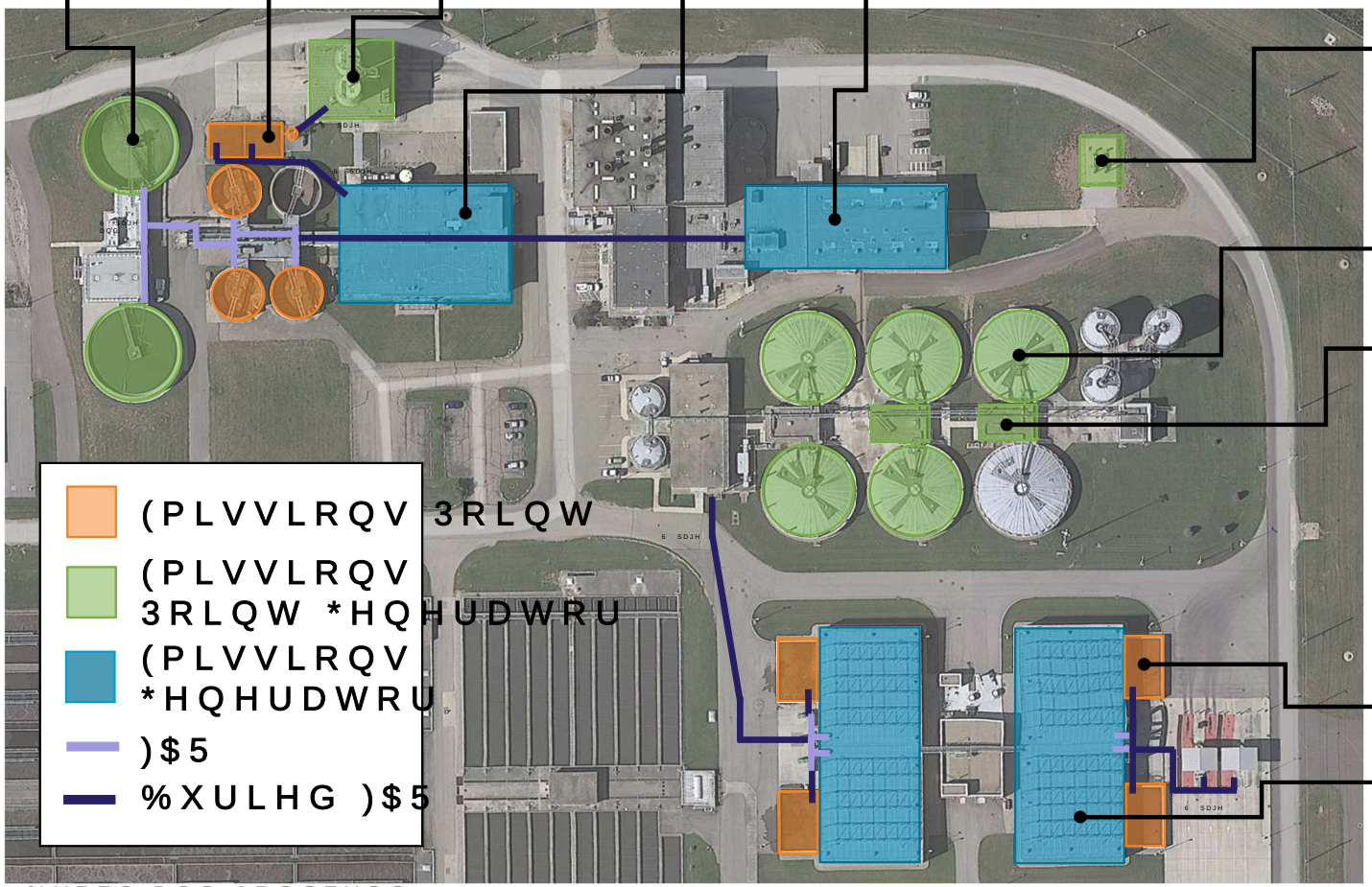
Slide 18

DF0 Prompt to explain future condition vs. existing

Dante Fiorino, 2025-05-19T19:07:25.983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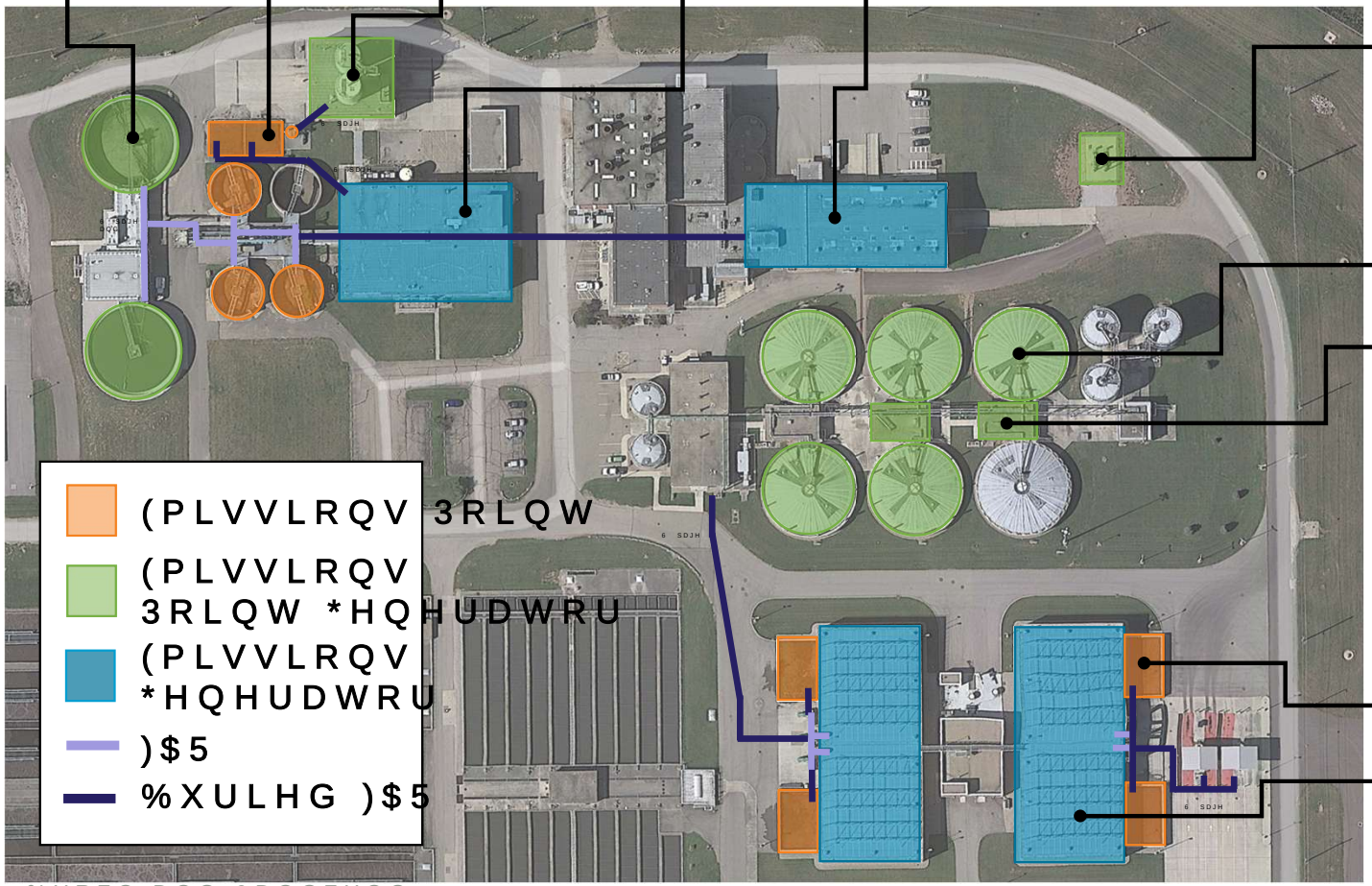
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6ROLGV +DQGOLQJ $UHD
NJ KU
NJ KU '*%
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NJ KU
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%/$)
%/$) $UHD
(PLVVLRQV 3RLQW
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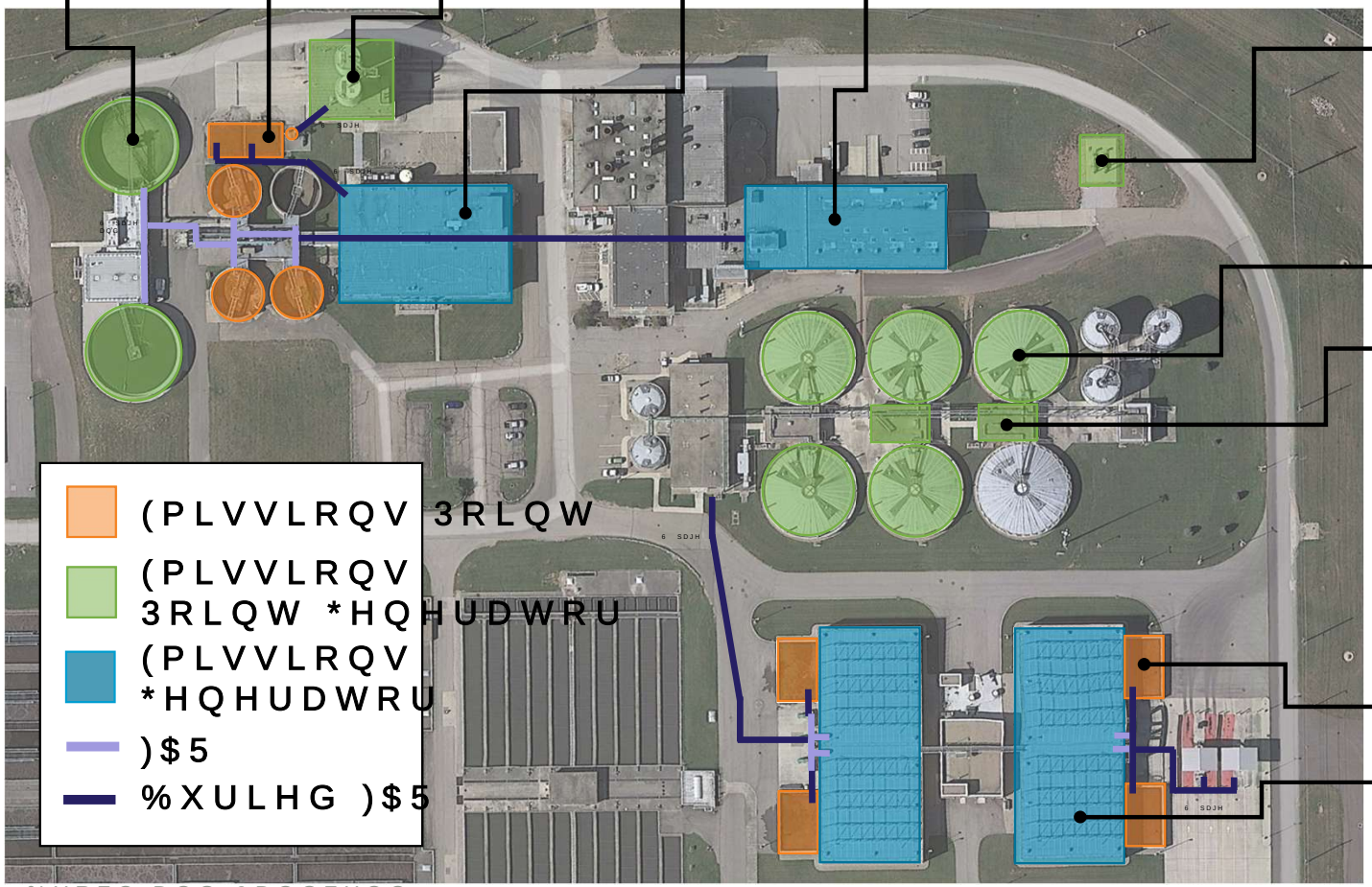

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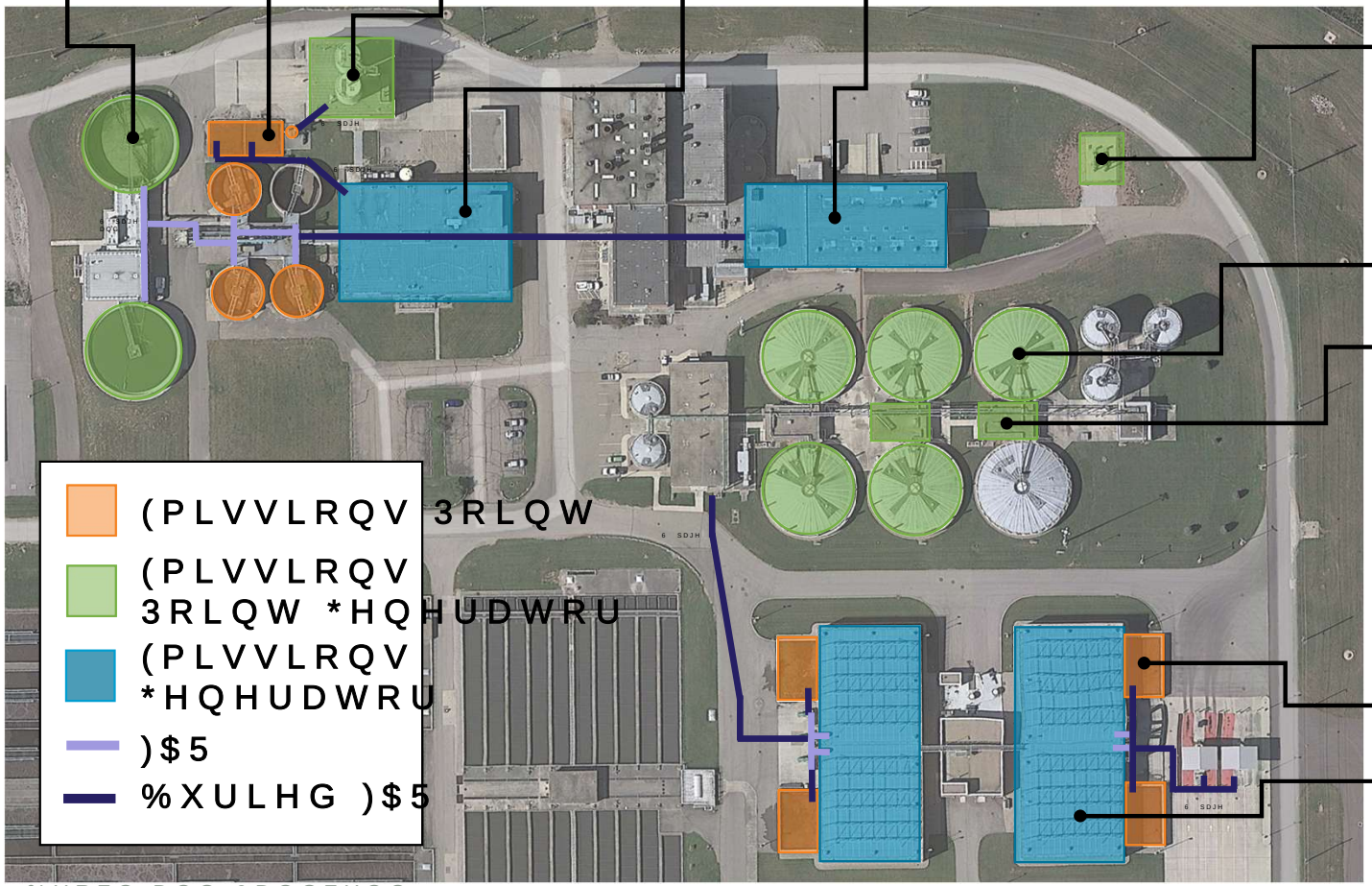

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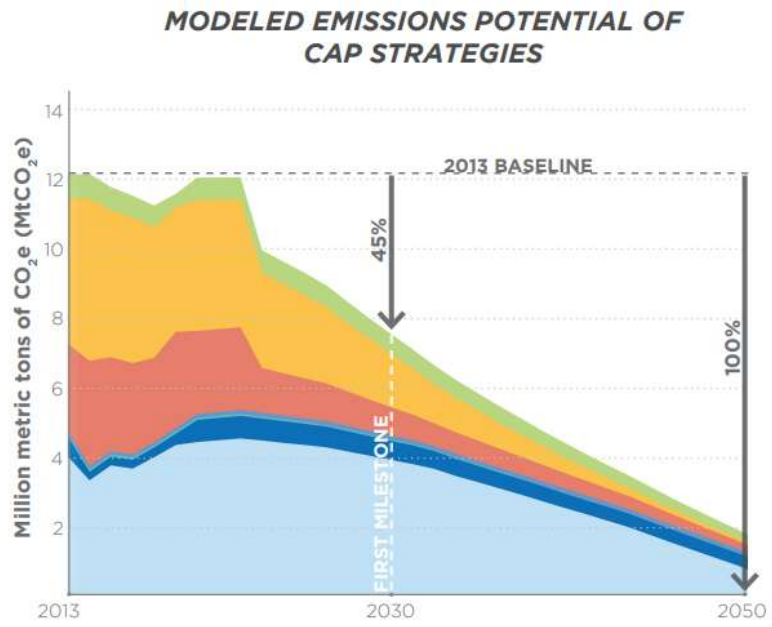
- VWUDWHJLHV DQG TXDQ V



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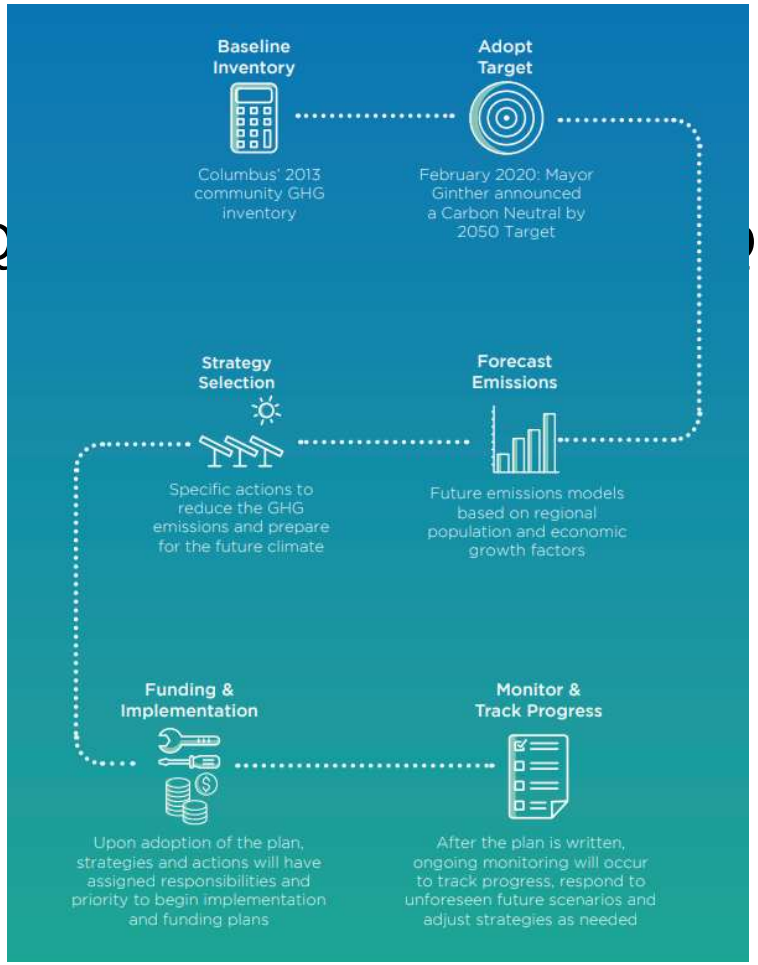

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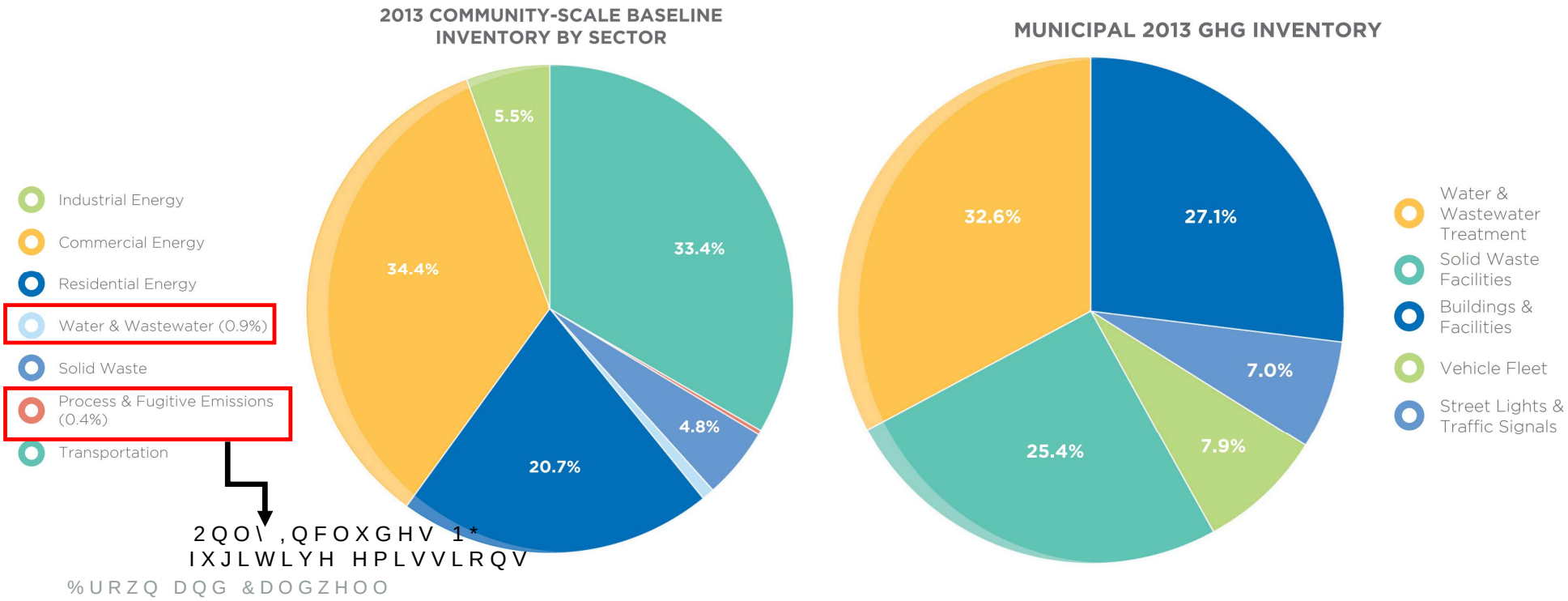

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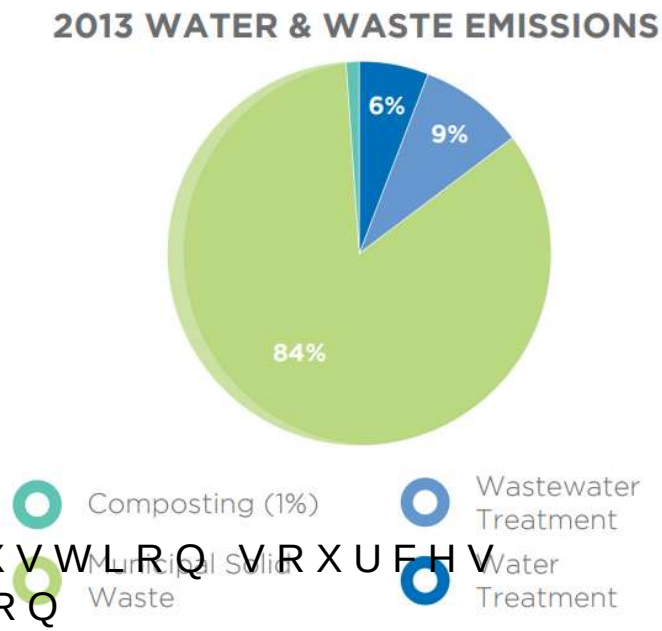
+ ,QYHQWRU\

	:DWHU :DVWHZ
6FRSH	• &RPEXVWLRQ RI ELRVROLG\ • &RPEXVWLRQ RI GLJHVWHU •)ODULQJ RI GLJHVWHU *DV
6FRSH	
6FRSH	• :DVWHZDWHU WUHDWPHQW HQHUJ\ XVH • :DWHU WUHDWPHQW SODQW



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1 2 HPLVVLRQV PRELOH FRPEXVWLRQ

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)XHO 3URGXFWLRQ

&KHPLFDO 3URGXFWLRQ
3RO\PHU)H&O
0LFUR& HWF

+DXOLQJ

6FRSH ,QGLUHFW (PLVVLRQV DQG 6LQNV

Stationary and Mobile Combustion

9HKLFOH %RLOHUV :DVWH *DV %XUQHUV

Fugitive Emissions

0LQRU 1* %LRJDV /HDNV

Process Emissions

,PKRII 'HQLWULILFDWLRQ (PLVVLRQV 1LWULILFDWLRQ

6FRSH ,QGLUHFW (PLVVLRQV DQG 6LQNV

([SRUWHG 51*

/DQGILOOLQJ

+DXOLQJ

7KLUG 3DUW\ 0HUFKDQW)DFLOLW\

2IIVLWH /DQG $SSOLFDWLRQ

6FRSH ,QGLUHFW (PLVVLRQV DQG 6LQNV

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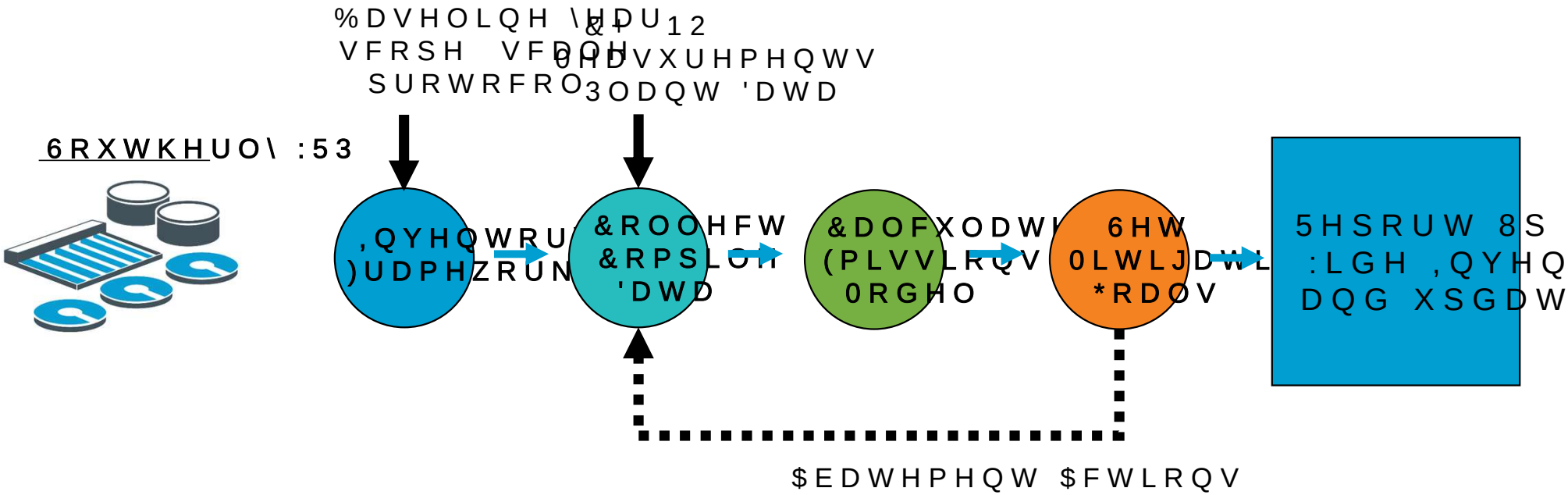

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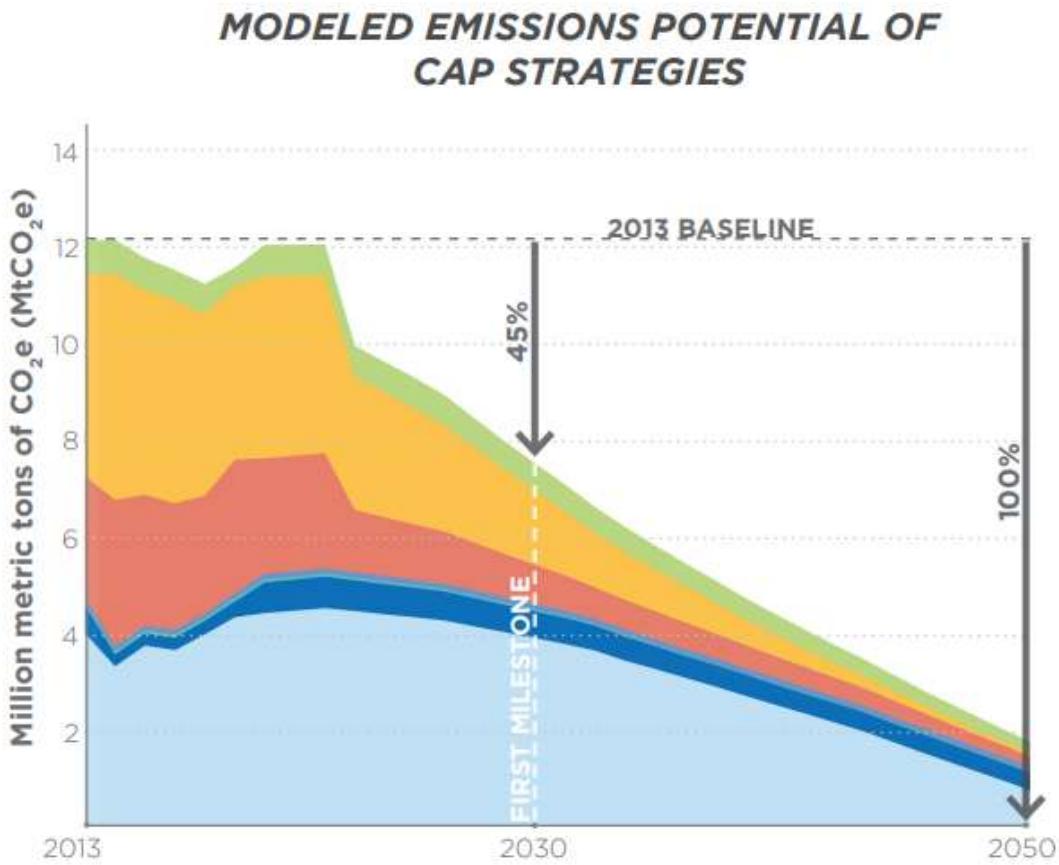
  - ,QIRUP IXWXUH PL DFWLRQV IXQGLQ DQG WUDFN SURJ WKH &LW\·V JRDO
- 3RWHQWLDO YLV LQYHQWRU\ WRR
- 8WLOLW\ VSHFLI



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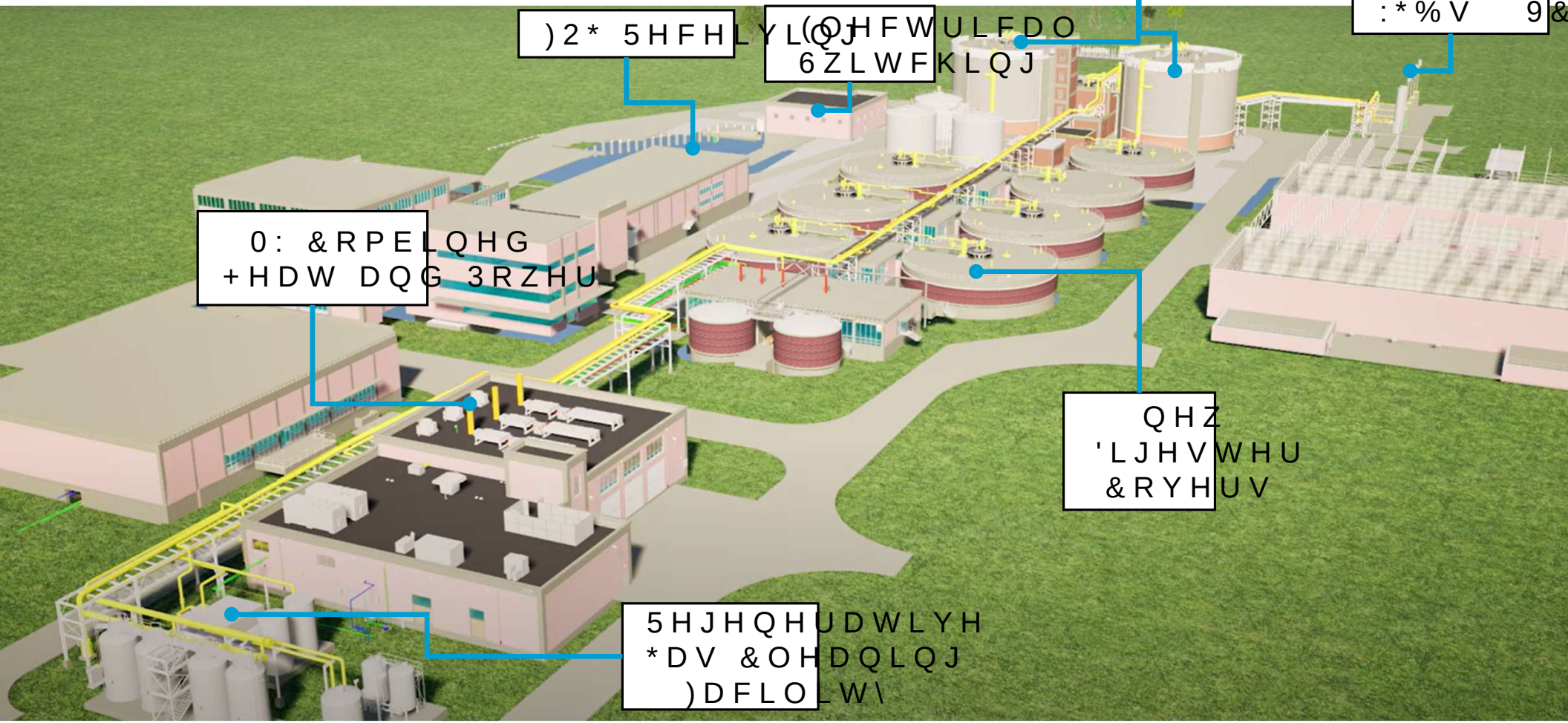

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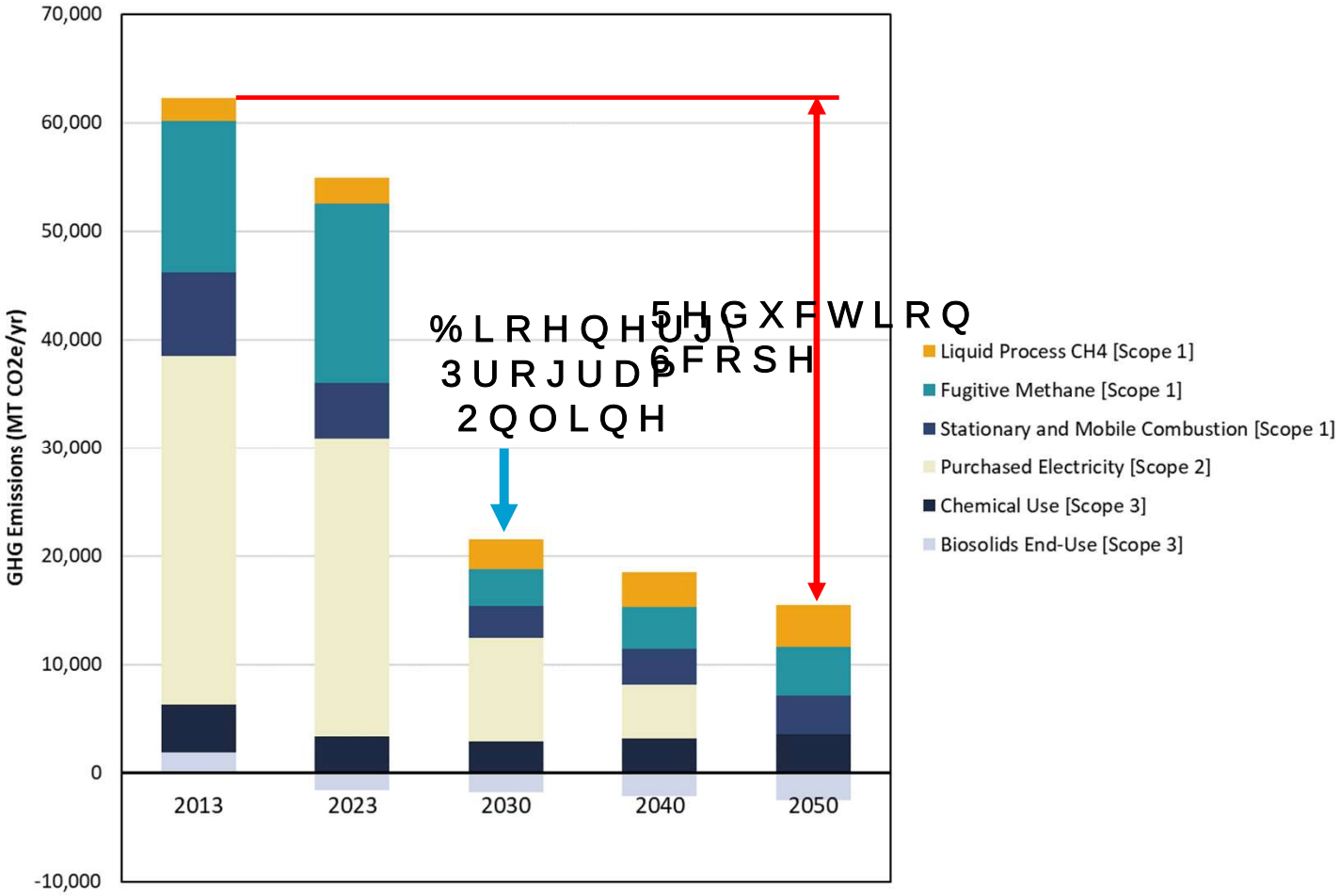

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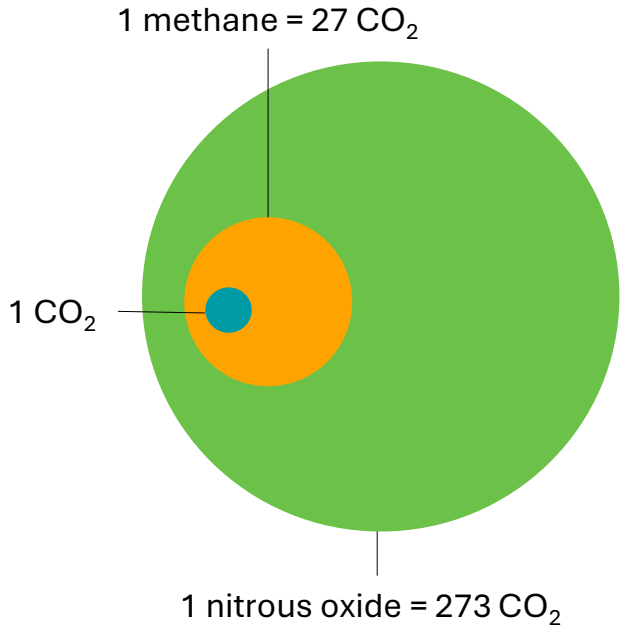

)X J L W L Y H &+

- 8 Q L Q W H Q G H G H P L V V L R Q V F R U U R V L R Q H U U R U
- 9 H Q W L Q J I R U V \ V W H P R S H S H U I R U P D Q F H
- , Q F R P S O H W H F R P E X V W L R Q

3 U R F H V V 1

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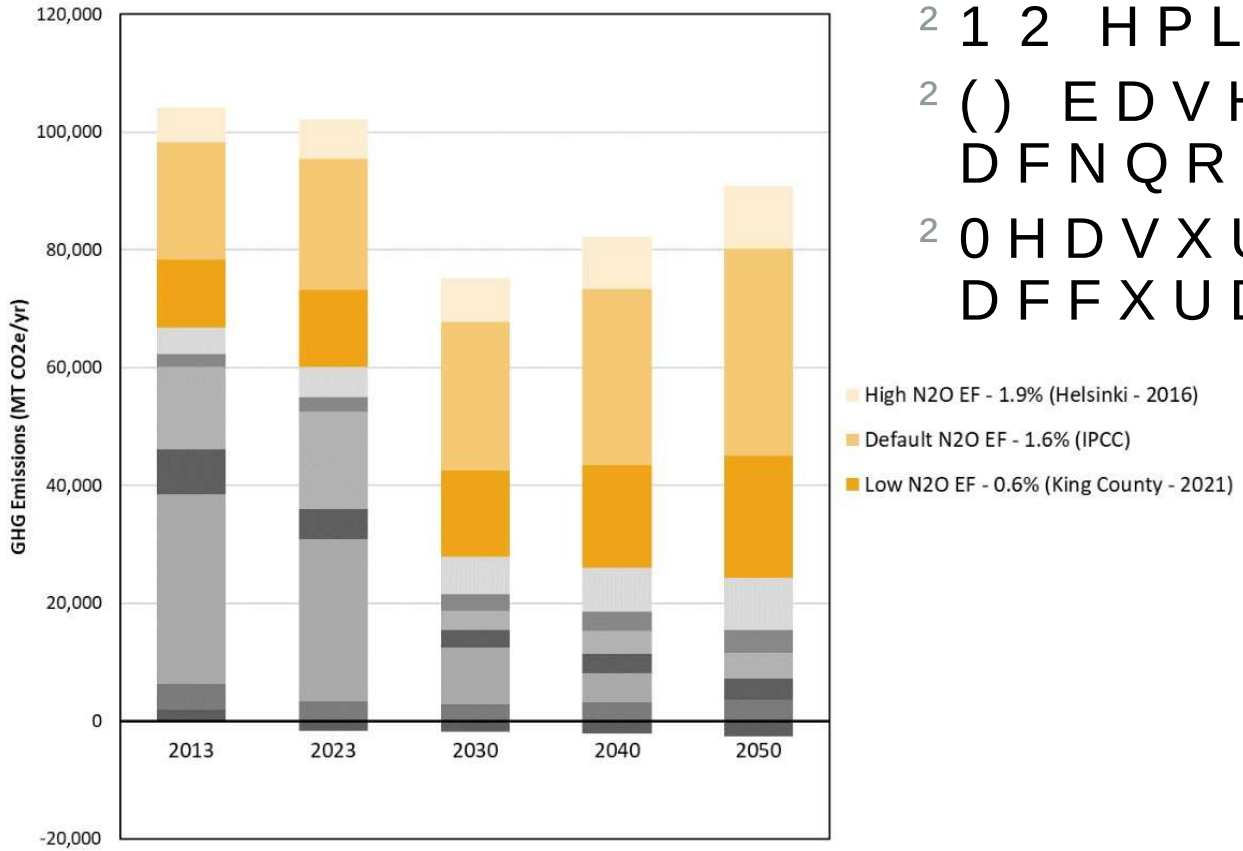


- 1 2 HPLVVLRQV KLJKO\ V
- () EDVHG RQ LQIOXHQW DFNQRZOHGJHV RYHUHV
- 0HDVXUHPHQW QHHGHG DFFXUDWH YDOXHV

%URZQ DQG &DOGZHOO

)LUVW2W')10 LQ :HVWHUQ +HPLVSK

8. DQG 'HQPDUN &ROXPEXV 2KLR

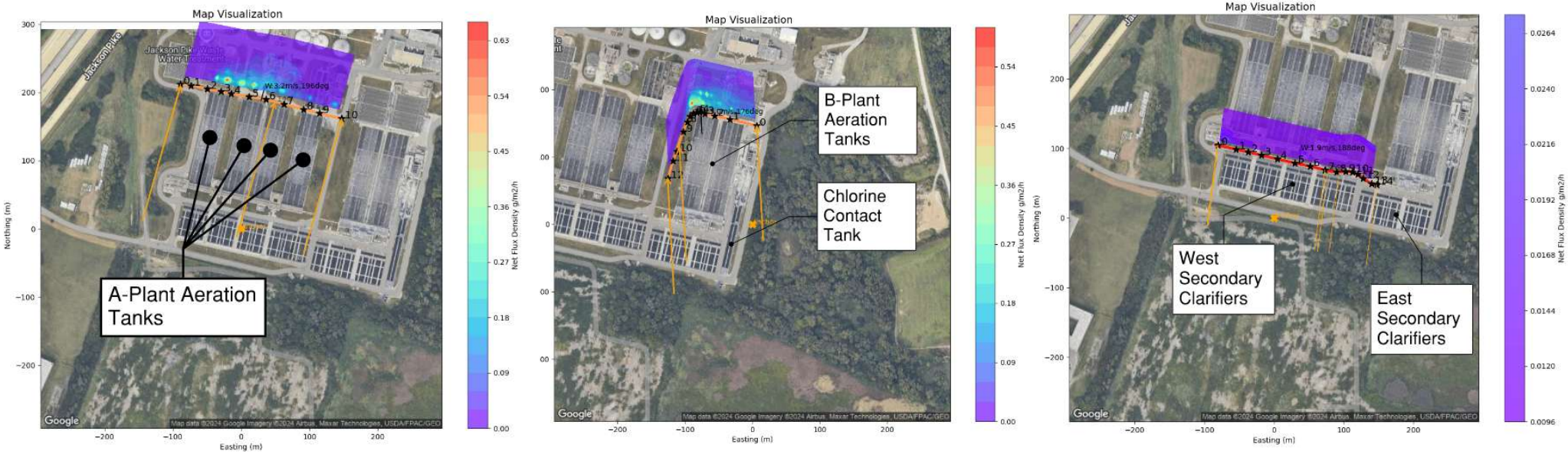
)LUVW WLPH ')0 KDV EHHQ XVHG WR TXDQWLI\ SURFHVV 1 2 HPLVVLRQV RXWVLGH RI (XURSH

%URZQ DQG &DOGZHOO

- D F N V R Q 23 I) LNQHG1L Q J V

$ 3O DQW $HUDWLRQ 7DQNV &KORULQDWLRQ &RQWDFW 7DQN &OHDUZHOO

N J2 1K &KORULQDWLRQ 2%DVLQ N J2 1K



&XPXODWLYH 2 K N J 1

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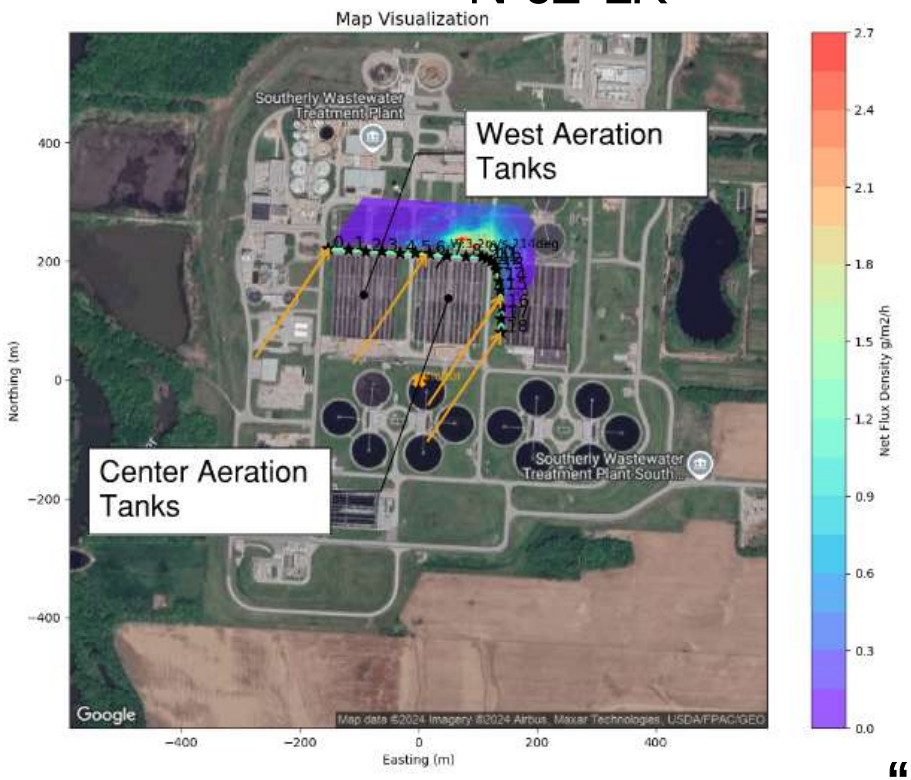

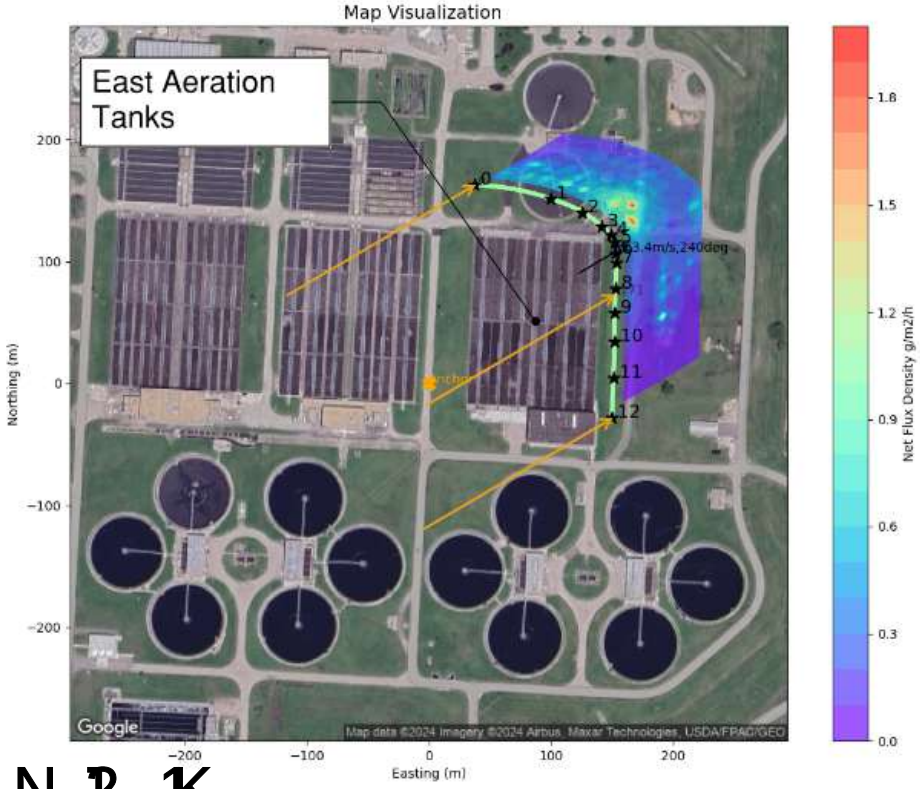

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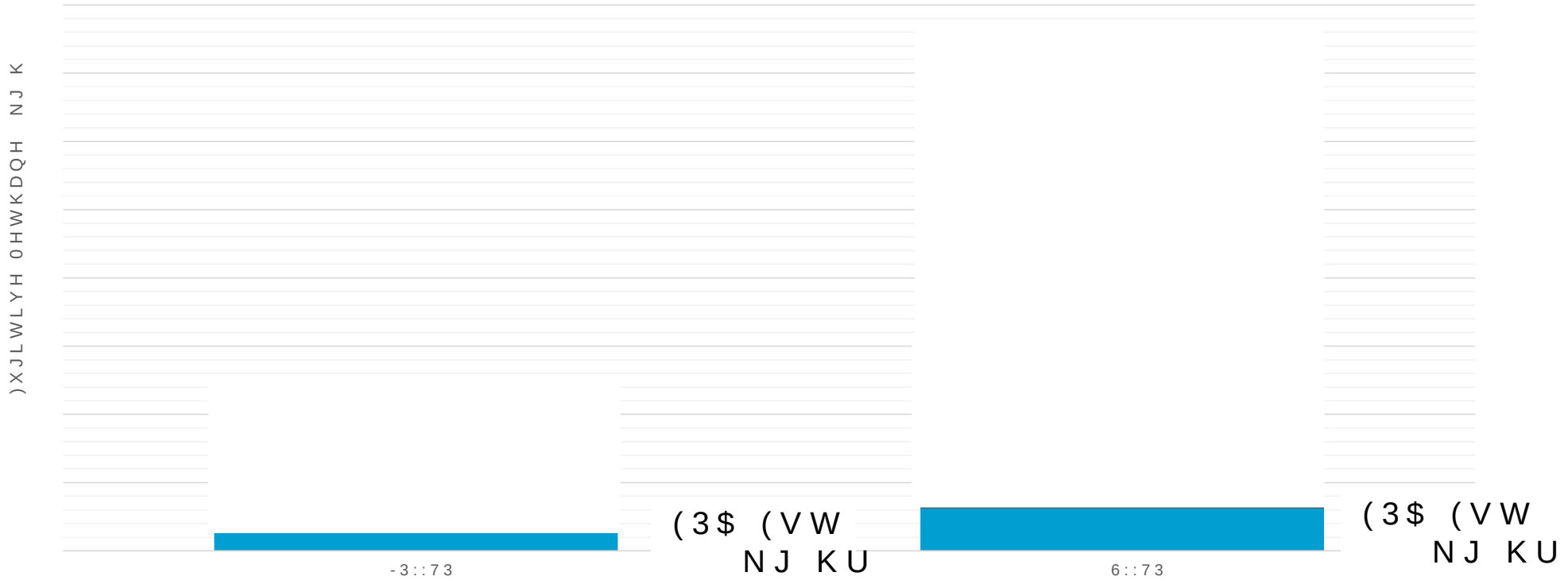

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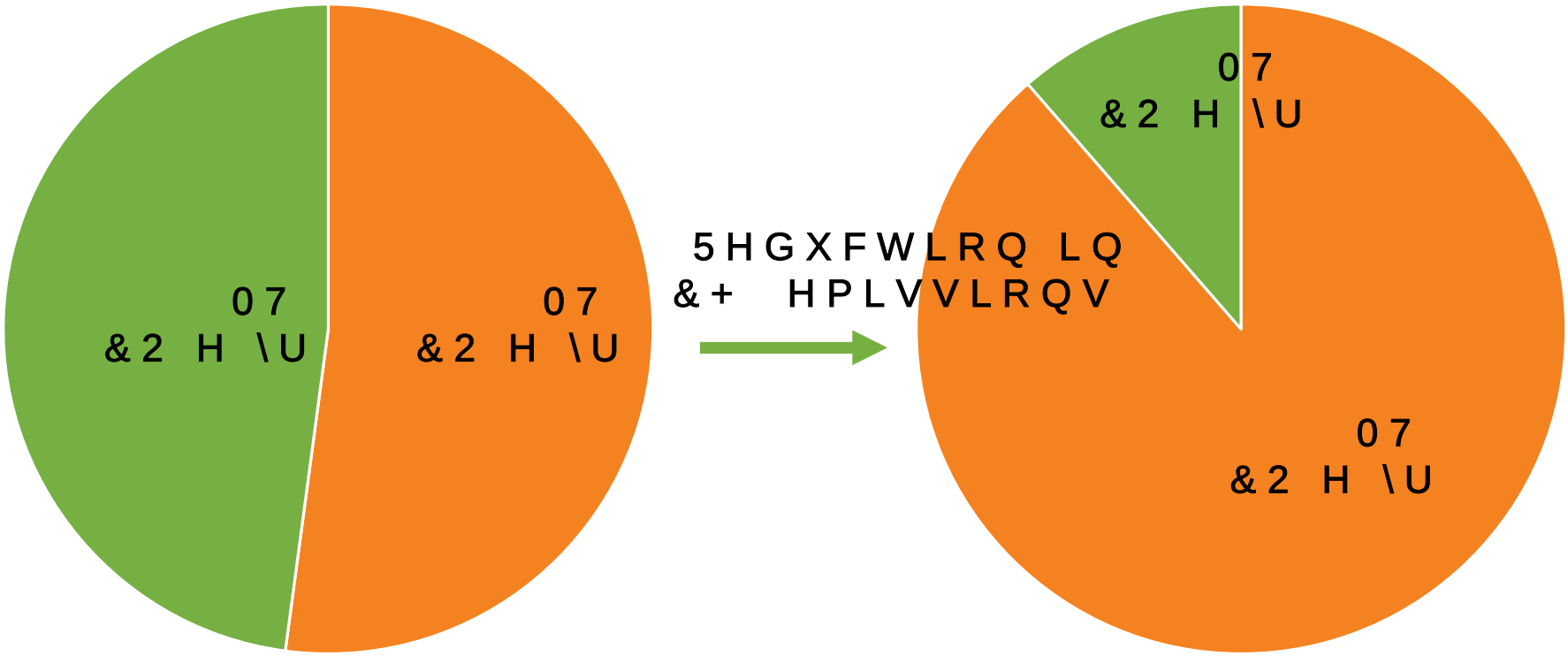

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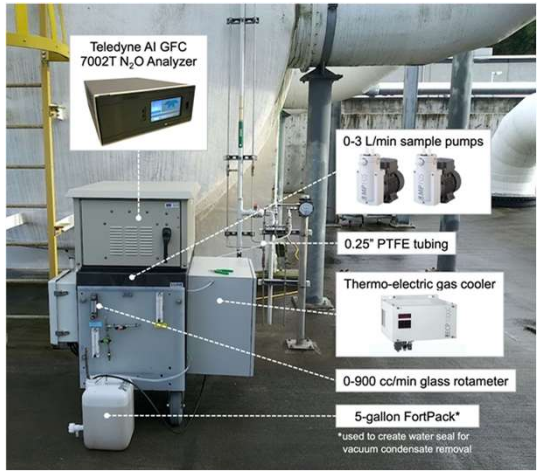
%URZQ DQG &DOGZHOO

6 R X W K H 2 U & O R \ Q 1 W L Q X

- $ T X H R X V S U R E H V W R E H L Q V W D O O H G L Q R E D V L Q W U D L Q D Q R [L F] R Q H D Q G D H U D W H
- , Q I O X H Q W Q L W U 2 J P H D 9 X E P Q W 1 Z L O O E H X V H G W R G H Y H O R S H P L V V L R Q H D
- 2 W K H U S O D Q W G ' 2 W 6 5 7 H Z L 1 2 E H X V H G W R L Q Y H V W L J D W H P L W L J D W L R Q V W U D W H J



*DV SKD2VH 1 PRQLWRULQJ XVHG DW .LQJ &RXQW\ WR FDOLEUDWH HPLVVLRQ HVWLPDWHV

7KDQN \RX

24XHVWLRQV"

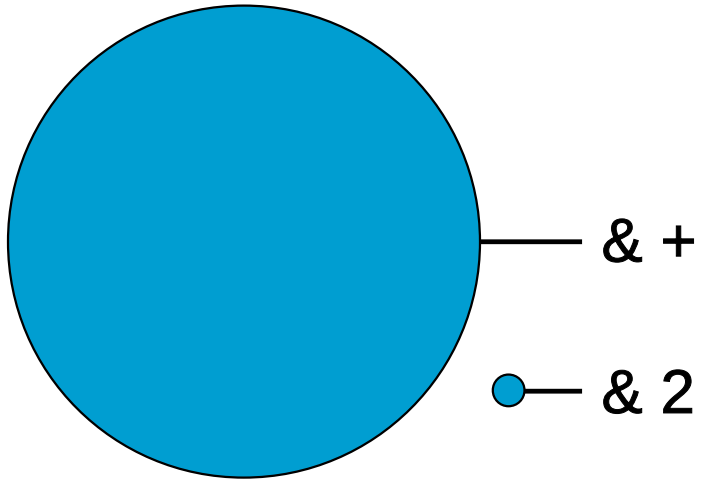
0HWKDQH LV D 3RZHUIXO *UHH

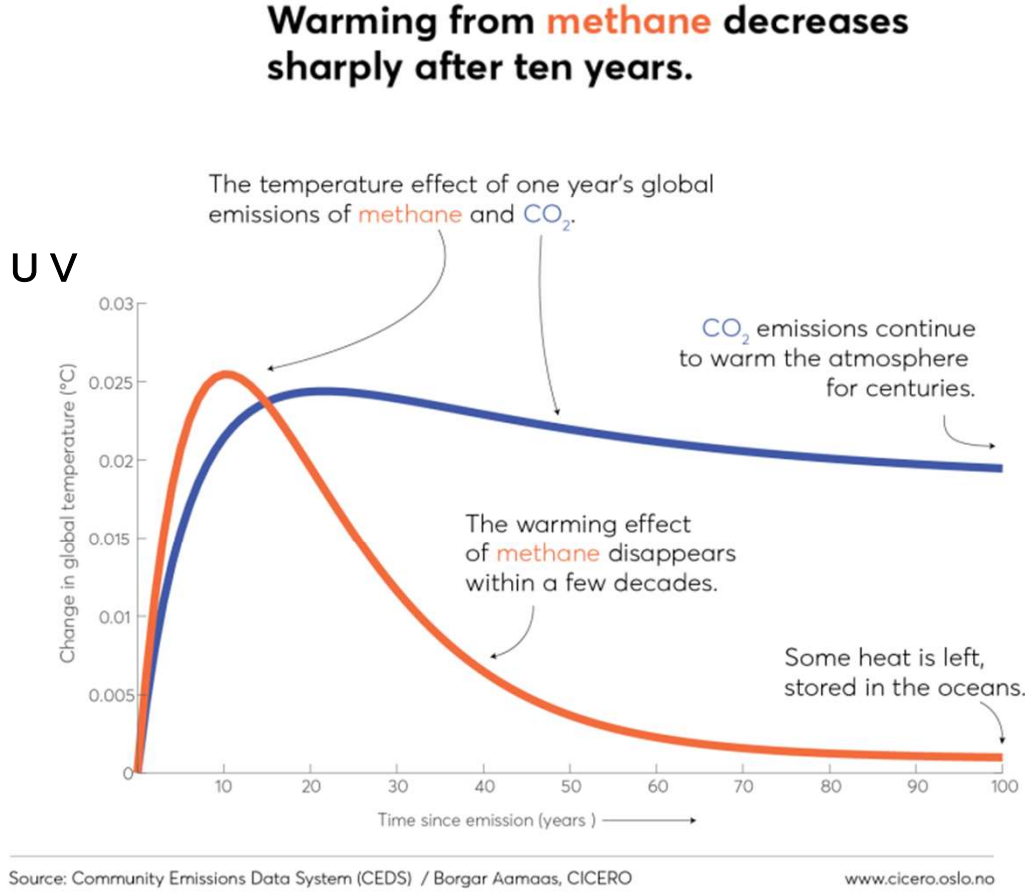
ï

PRUH SRZHUIXO

WKDQ&2 2

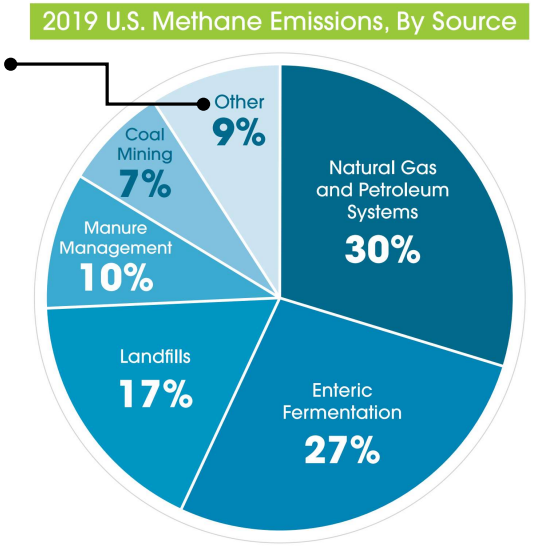
D \HDU SHULRG <HDUV

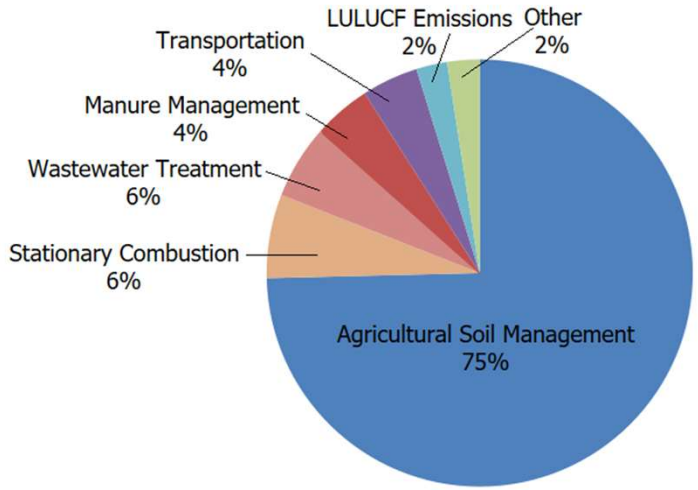




:DVWHZDWHU 7UHDW

- :53V FRQWULEXWH RI DOO
  - WR RI DHDV&LRQV
  - RI 2 HPLVVLRQV
- 3URFHVV IXJLWLYH DQG HÇ
  D PDMRULW\ RI WKH *+* HP L V 8V 6L H K Q (P L V V L R Q D



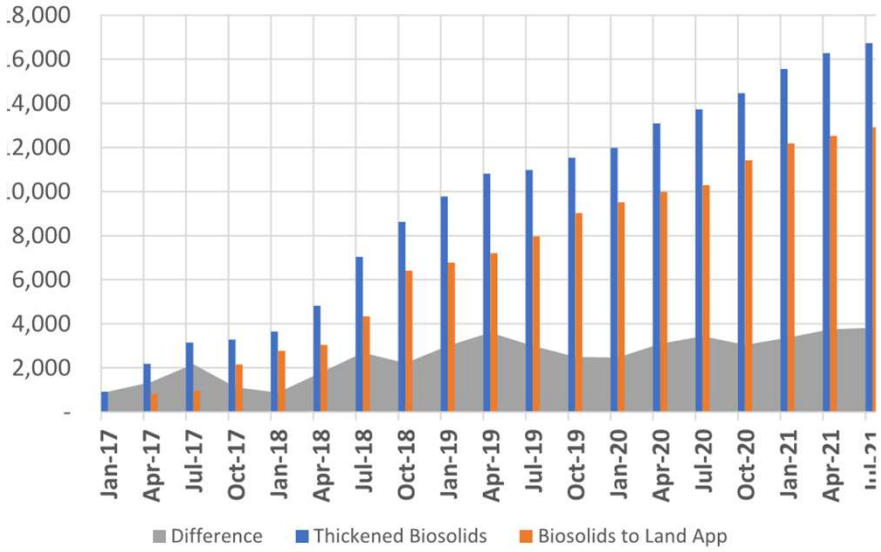


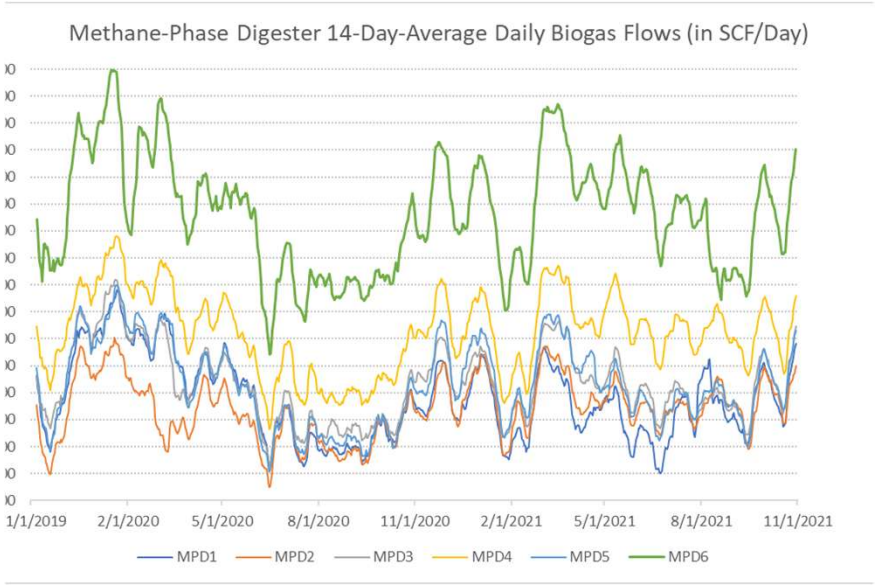
:DWHU 5HVRXUFH ´5HFRYHU

%URZQ DQG &DOGZHOO

3 U R E O H P 6 W D W H P H Q W

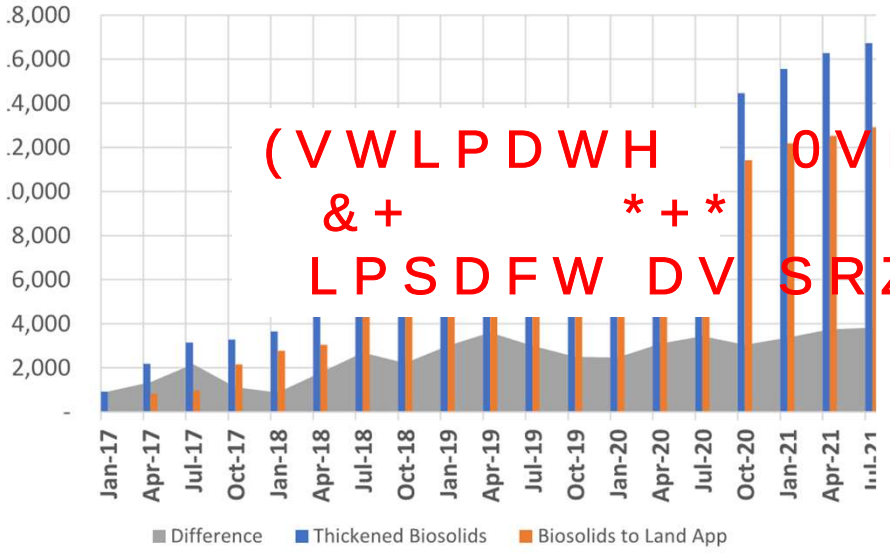
%L R V R O L G V /D Q G $S S O L F D W L R Q)D F L O L W \ %/ $) 'L J H V W H U V

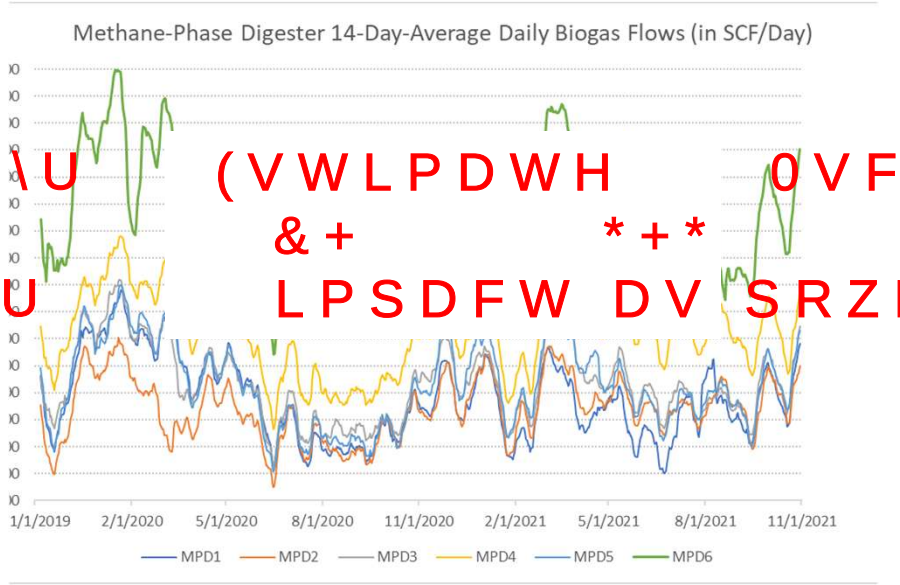




3UREOHP 6WDWHPHQW

%LRVROLGV /DQG $SSOLFDWLRQ)DFLOLWLHV %/$) 'LJHVWHUV





0HWKRGV

/HYHO 6RXUFH ,GHQWLILFDWLRQ

2ptical Gas Imaging

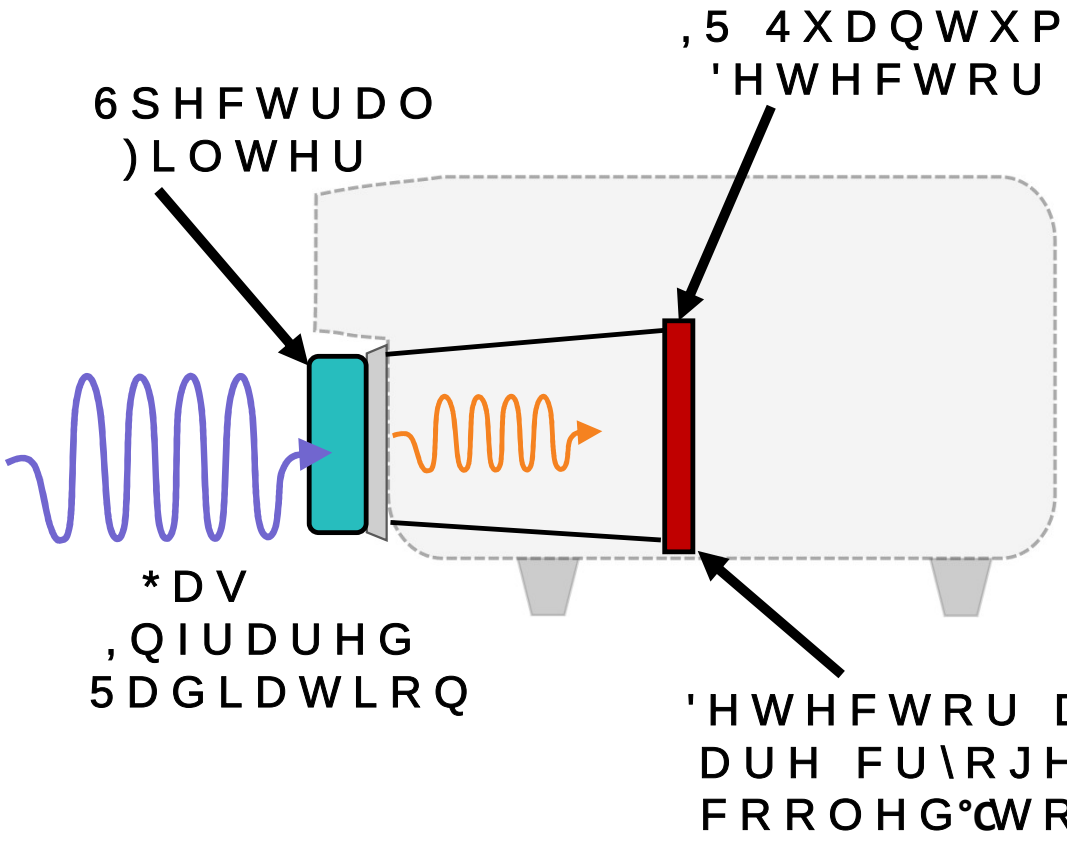
KONICA MINOLTA

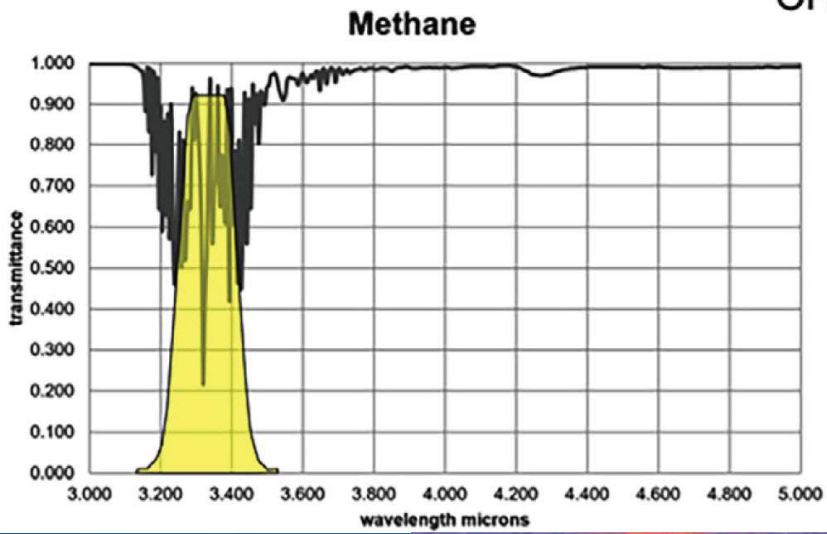
/HYHO :DOO (QWLILFDWLRQ

JLQJOX[:DOO (

EXPLICITE emissions data

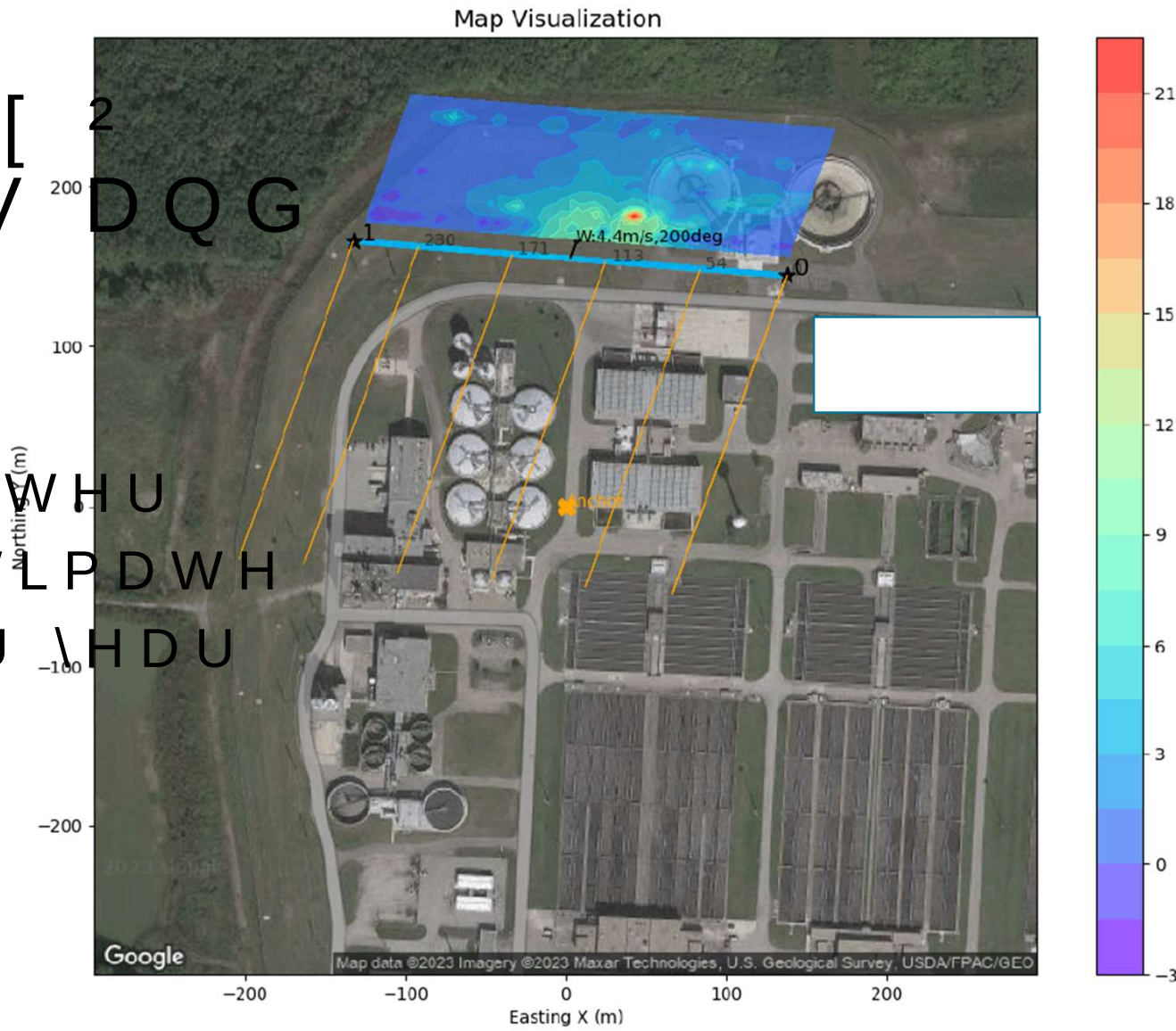
2*, &DPHUD


6SHFWUDO
)LOWHU
,5 4XDQWXP
'HWHFWRU
*DV
,QIUDUHG
5DGLDWLRQ
'HWHFWRU DQ
DUH FU\RJHQ
FRROHG°dWR


Methane
CH4
transmittance
1.000
0.900
0.800
0.700
0.600
0.500
0.400
0.300
0.200
0.100
0.000
3.000
3.200
3.400
3.600
3.800
4.000
4.200
4.400
4.600
4.800
5.000
wavelength microns

'URQH)OX[² 'LJHVWHUV DQG %/$)

- NJ KU
- RI IORZ PHWHU
- RI 965 HVWLPDWH
- FDUV SHU \HDU

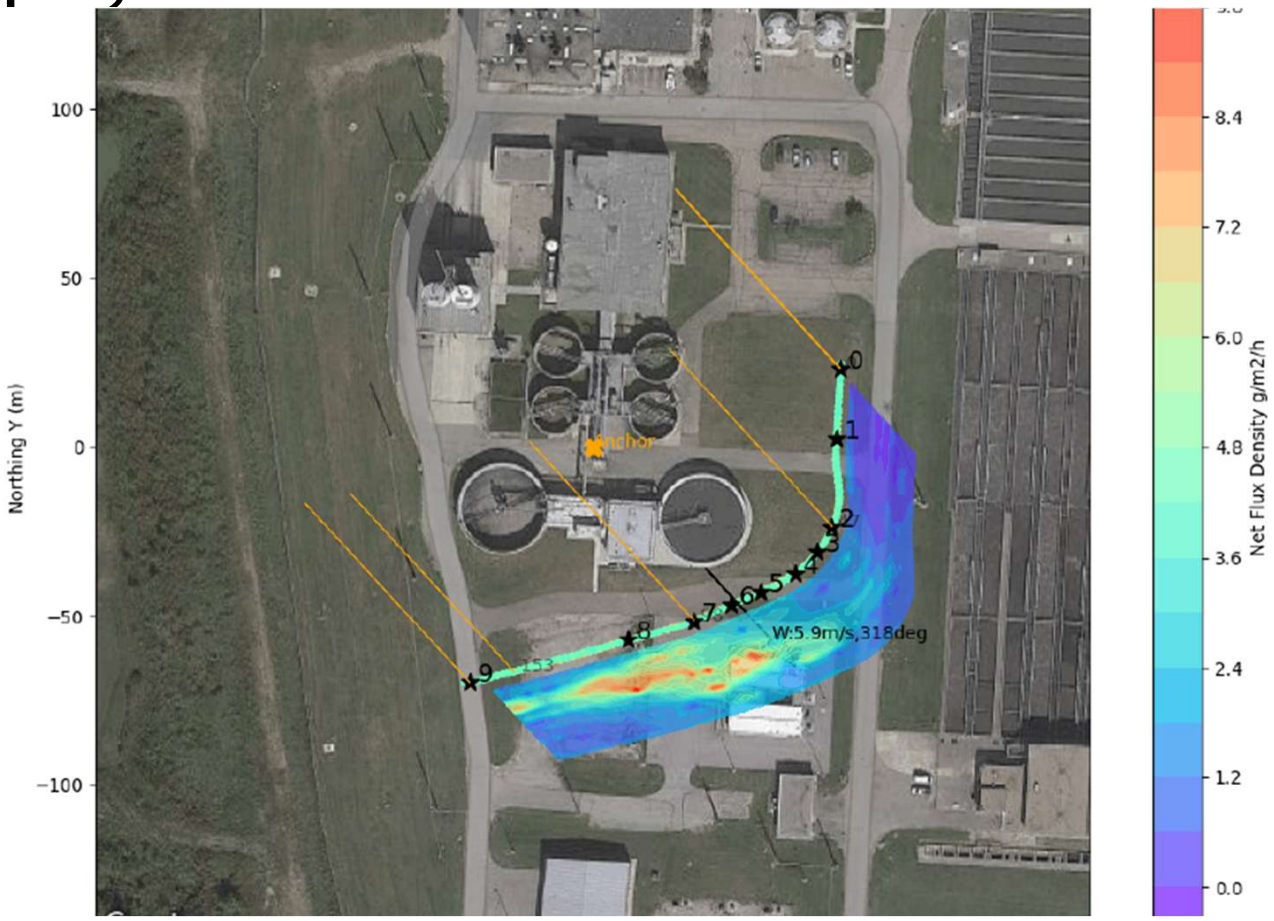


'URQH)OX
:DVWH *D\
%XUQHU

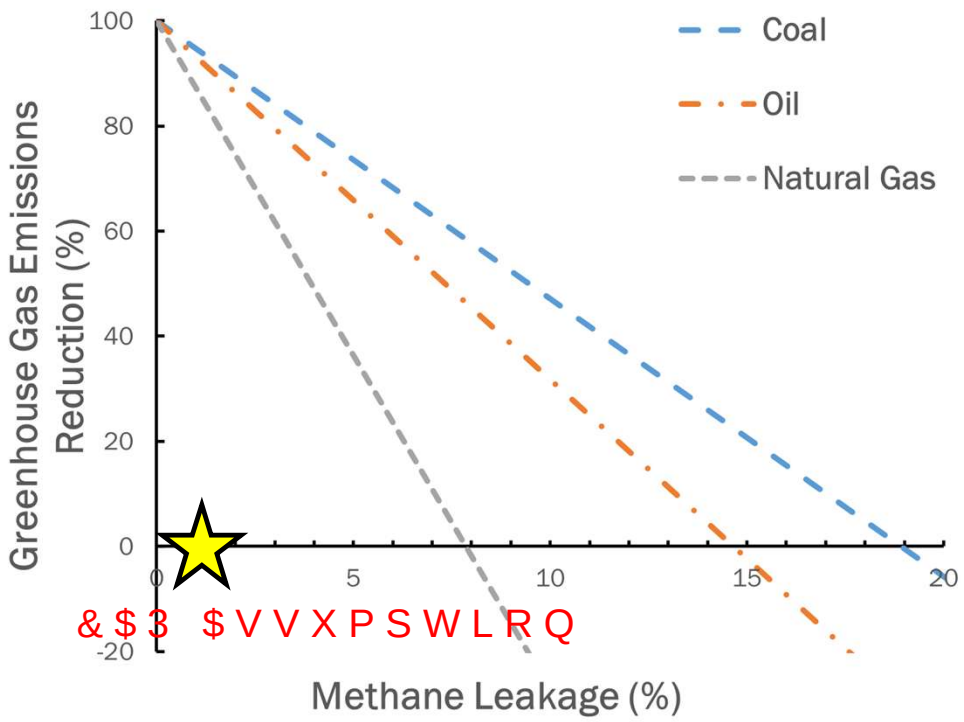
- 2 NJ KU (
- 2 /HVV WKDQ
- 2 (3$ GHIDXOW
- 2 FDUV SHU

'URQH)OX
%LRVROL
+DQGOLQ

- NJ KU
- 8QH[SHFWHG FRQWULEXWR
- 0RVW IURP E WKLFNHQLQJ
- FDUV SHU



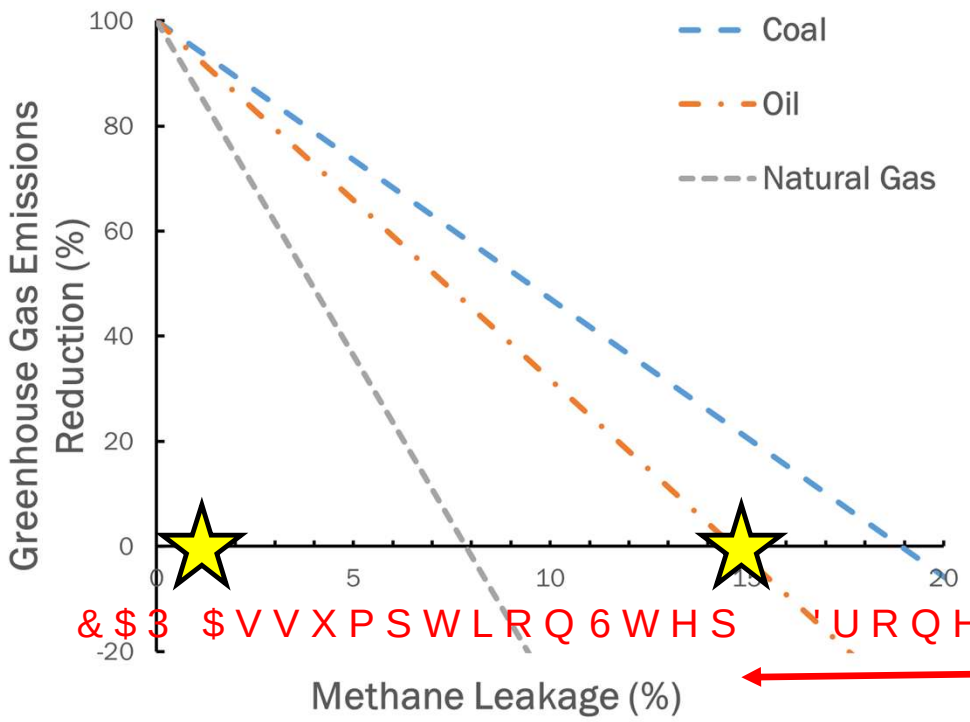
%DVHOLQH)XJLWLYH 0HWKDQH



%URZQ DQG &DOGZHOO

Even minor methane leakage quickly degrades the GHG benefit of biogas CHP used to displace fossil-fuel generated electricity

%DVHOLQH)XJLWLYH 0HWKDQH



&$3 $VVXPSWLRQ6WHS 'URQH

6WHS 6&$'$

5HDOLW\

After the construction of a cogeneration facility, the GHG impact of CHP power generation at WRP is comparable to an oil power plant

Engineers | Scientists | Consultants | Constructors

Brown AND Caldwell

%URZQ DQG &DOGZHOO

+ 3URWRFROV

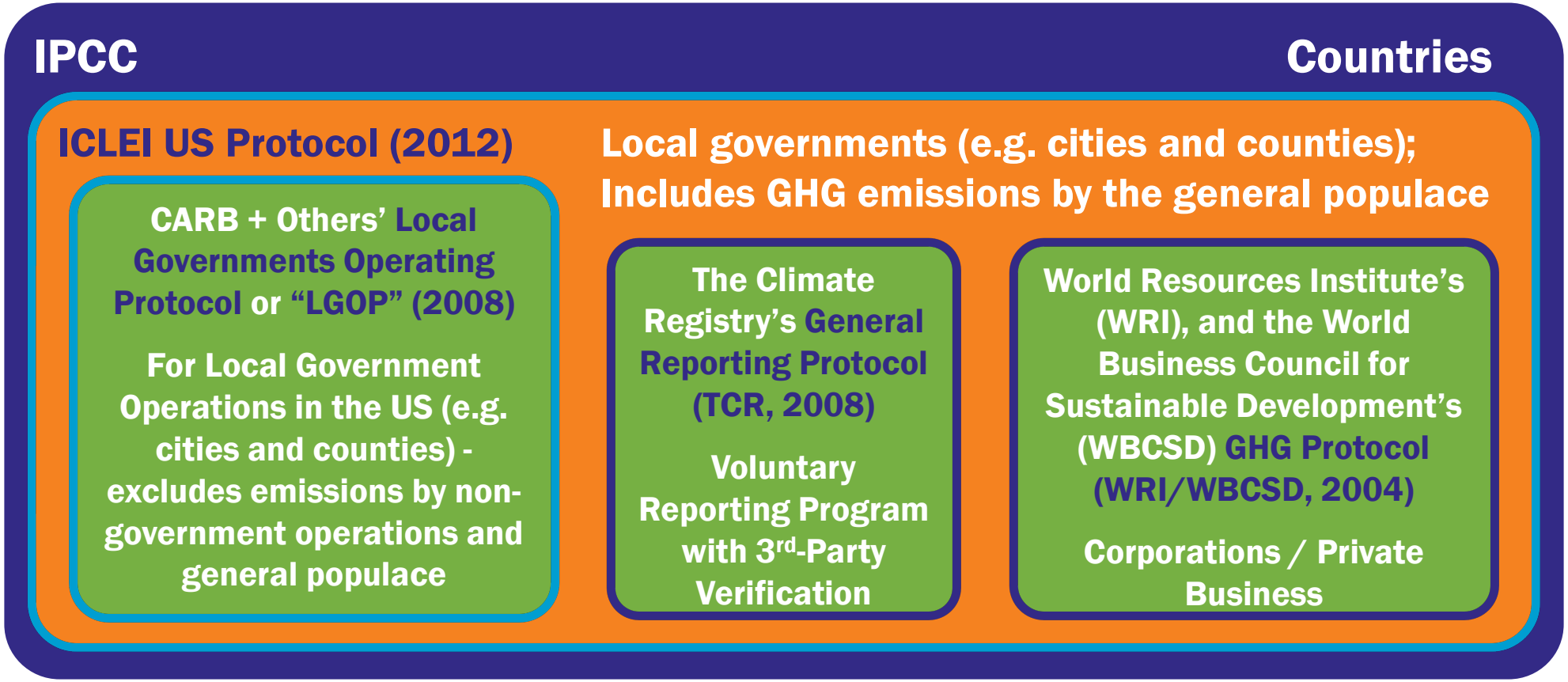
&28175<

&,7,(6 *29(510(176

&$5% 2WKHUV /*23

,62

2U« <RXU /RFDO *RY·W PD\ EH (VW



Quality Principle	IPCC Guidelines	ISO 14064-1	GHGP Corporate	GHGP Cities	GHGP Products	ISO 14062-2*	GHGP Project	GHGP Policy
Transparency	✓	✓	✓	✓	✓	✓	✓	✓
Completeness	✓	✓	✓	✓	✓	✓	✓	✓
Consistency	✓	✓	✓	✓**	✓	✓	✓	✓
Accuracy	✓	✓	✓	✓	✓	✓	✓	✓
Conservativeness						✓	✓	?
Relevance		✓	✓	✓	✓	✓	✓	✓
Comparability	✓			**				(optional)

- :KDW WH LW"
- :KDW PLVVLQJ" ZH KDYH GRQH IXJLWLYH PHWKDQ
- &$3 ! LQWHUQDO LQYHQWRU\ ! PHDVXUHPHQW !
-)XJLWLYH PHWKDQH ZRUN
-)LJXUHV IRU *+* LQYHQWRULHV IRU VLWH VSHFLI
- &OLPDWH DFWLRQ 3ODQW ! GDWD EXFNHWV VX
- *+* LQYHQWRULHV ! &OLPDWH DFWLRQ SODQ ZKL
  - *+* LQYHQWRULHV IRU ZUS ! SURWRFROV LFOHL ,3&&
- +RZ GR ZH UHSOLFD
- 7DON PRUH DERXW WKHLU FOLPDWH DFWLRQ SOD

0D\RU·V &OLPDWH $FWLRQ 3ODQ &RRUGLQDWLRQ 0HPR L &RPSOHV
*DV *+* LQYHQWRU\ IRU 6:53 ,QFOXGH &2 &+ DQG 12[HPLVVLR
DVVHVVPHQW 4XDQWLI\ VRXUFHV IRU 6:53 WR 6FRSH PHWKRGRO
E\ WKH ,QWHUQDWLRQDO 3DQHO IRU &OLPDWH &KDQJH ,3&& DQG
*OREDO 3URWRFRO IRU &RPPXQLW\ 6FDOH *UHHQKRXVH *DV ,QYHQ
3UHVHQWDWLRQ RI HOHFWULFDO VDYLQJV WKURXJK QHZ HTXLSPH
HQHUJ\ PDQDJHPHQW VWUDWHJLHV JUHHQ EXLOGLQJ GHVLJQ UH
HPLVVLRQV HQYLURQPHQWDO EHQHILWV RI LPSURYHG HIIOXHQW
FRQWURO LLL 'LVFXVV KRZ WKHVH SUDFWLFHV ILW LQWR WKH FL

'26' %& ZLOO SUHVHQW WKH UHVXOWV RI W
WKH JURXS ZLOO GLVFXVV WKH PHWKRGRO
ZH FDQ PHDVXUH UHGXFWLRQV LQ WKH IXW
LPSURYHPHQWV

%URZQ DQG &DOGZHOO