Department of Energy
Washington, DC 20585

May 17, 2021

Austin R. Evers
American Oversight
1030 15th Street NW
Suite B255
Washington, DC 20005

Via email: foia@americanoversight.org

Re: HQ-2020-00051-F

Dear Mr. Evers:

This is the fourteenth and final partial response to the request for information that you sent to the Department of Energy (DOE) under the Freedom of Information Act (FOIA), 5 U.S.C. § 552. You requested:

> All email communications (including email messages, calendar invitations, and attachments thereto, and including complete email chains) sent by the DOE officials specified below containing any of the following key terms:
>
> i.Naftogaz
> ii.Favorov
> iii.Fruman
> iv.Parnas
> v.Sargeant
> vi. 45 Energy Group
> vii.Baumgardner
> viii.SigmaBleyzer
> ix.Bleyzer
> x.Bensh
> xi.Pelicourt
> xii.Rudy
> xiii.Rudolph
> xiv.Giuliani
> xv.Giuiliani
> xvi.Guliani
> xvii.Guiliani
> xviii.Toensing
> xix.diGenova
> xx.Kislin

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xxi.Hunter
xxii. Biden
xxiii. Parnas
xxiv. Fruman
xxv. Kolomoisky
xxvi. Klitschko
xxvii. Burisma
xxviii. Shokin
xxix. Lutsenko
xxx. Zelensky
xxxi. Zelenskyy
xxxii. Zelenskiy
xxxiii. Yermak
xxxiv. Bakanov
xxxv. Bohdan
xxxvi. Rybolovlev

Specified DOE Officials:
i. Secretary Rick Perry
ii. Deputy Secretary Dan Brouillette
iii. Former Chief of Staff Brian McCormack
iv. Anyone currently serving in the capacity of Chief of Staff
v. Under Secretary Mark Menezes
vi. Samuel Buchan, Special Adviser
vii. William Cooper, General Counsel
viii. Paul Tumminia, Senior Advisor, Office of Russian and Eurasian Affairs
ix. Anyone serving in the capacity of White House Advisor or Liaison

Please produce all responsive records from January 1, 2019, through the date the search is conducted.

On January 9, 2020, during a call including DOJ attorneys and American Oversight counsel, you agreed to waive all duplicative attachments, provided we indicate where duplicative attachments are being omitted, as well as mass mailings and newsletters. You also agreed to waive nonresponsive attachments for now, but asked that we include a slip sheet in place of each nonresponsive attachment.

Your request was assigned to DOE's Office of Executive Secretariat (ES), Office of International Affairs (IA), and Office of the General Counsel (GC) to conduct a search of their files for responsive documents. The search started on November 21, 2019, which is the cutoff date for responsive documents. You received a first partial response to this request on April 15, 2020 consisting of ten (10) documents. One of the documents was transferred in full to the Department of State (DOS) for review and direct response to you. This document was released on December 1, 2020, after DOS provided release determinations on their equities.

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You received a second partial on May 18, 2020, consisting of thirty-four (34) documents. Twenty (20) documents were sent to DOS for consultation. These documents were released on December 1, 2020, after DOS provided release determinations on their equities. Further, one (1) document was sent to International Trade Administration (ITA) for consultation. This document was released on August 17, 2020, after ITA provided release determinations on their equities.

You received a third partial on June 15, 2020, consisting of twelve (12) documents. Five (5) documents were sent to DOS for consultation. These documents were released on December 1, 2020, after DOS provided release determinations on their equities.

You also received a fourth partial on July 15, 2020, consisting of twenty-six (26) documents. Three (3) documents were sent to DOS for consultation. These documents were released on December 1, 2020, after DOS provided release determinations on their equities. In addition, one (1) document was sent to the Overseas Private Investment Corporation (OPIC) for consultation, and one (1) document was sent to the U.S. Trade and Development Agency (TDA) for consultation. These documents were released on November 16, 2020, after TDA and OPIC provided release determinations on their equities. Two (2) documents were sent to DOE's Pacific Northwest National Laboratory (PNNL) for review and direct response to you. These two documents were released on November 16, 2020 and December 1, 2020, after PNNL provided release determinations on their equities.

You received a fifth partial on August 17, 2020, consisting of thirty (30) documents. Thirteen (13) documents were sent to DOS for consultation and one (1) document was sent to U.S. Department of the Treasury (UST) for consultation. On May 4, 2021, we advised you that in light of the agreement between American Oversight and DOE which narrowed the set of custodians and search terms you are requesting, DOE has determined that none of the documents sent to DOS or UST as part of the fifth partial are responsive to your narrowed request.

You received a sixth partial on September 15, 2020, consisting of forty-five (45) documents. Eleven (11) documents have been sent to DOS for consultation and will be released once DOS provides release determinations on their equities. In addition, one (1) of these documents has been sent to ITA for consultation and will be released once ITA provides release determinations on their equities. Lastly, one of the documents was transferred to DOE's National Nuclear Security Administration (NNSA) for review and direct response to you.

You also received a seventh partial on October 15, 2020, consisting of sixty-five (65) documents. Forty-eight (48) documents have been sent to DOS for consultation and will be released once DOS provides release determinations on their equities. You received an eighth partial on November 16, 2020, consisting of fifty-two (52) documents. Twenty-four (24) documents have been sent to DOS for consultation and will be released once DOS provides release determinations on their equities.

You also received a ninth partial on December 15, 2020, consisting of forty-four (44) documents. Ten (10) documents have been sent to DOS for consultation and will be released once DOS provides release determinations on their equities.

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You received a tenth partial on January 15, 2021, consisting of thirty-four (34) documents. Seventeen (17) documents have been sent to DOS for consultation and will be released once DOS provides release determinations on their equities.

You received an eleventh partial on February 16, 2021, consisting of thirteen (13) documents. Six (6) documents have been sent to DOS for consultation and will be released once DOS provides release determinations on their equities. In addition, two (2) documents have been sent to ITA for consultation and will be released once ITA provides release determinations on their equities.

You received a twelfth partial on March 15, 2021, consisting of nine (9) documents. Two (2) documents have been sent to DOS for consultation and will be released once DOS provides release determinations on their equities.

You received a thirteenth partial on April 15, 2021, consisting of eleven (11) documents.

This letter serves as the fourteenth and final response for DOE. At this time, DOE has identified eighteen (18) documents responsive to the request for a fourteenth partial response. DOE has determined that one (1) document has Central Intelligence Agency (CIA) equities, one (1) document has DOS equities, and three (3) documents have both CIA and DOS equities. DOE is sending these documents to CIA and DOS for consultation. The remaining documents are being released to you as described in the accompanying index.

Upon review, DOE has determined that certain information should be withheld in the documents pursuant to Exemptions 1, 4, 5, and 6 of the FOIA, 5 U.S.C. § 552, (b)(1), (b)(4), (b)(5), and (b)(6).

Each of the documents released for this fourteenth response have been reviewed by the Office of Classification, Office of Environment, Health, Safety and Security, in the DOE pursuant to 10 C.F.R. § 1004.6. These documents contain information properly classified as National Security Information, and are now being released to you with certain information withheld pursuant to Exemption 1 of the FOIA.

Exemption 1 provides that an agency may exempt from disclosure matters that are "(A) specifically authorized under criteria established by an Executive order to be kept secret in the interest of national defense or foreign policy and (B) are in fact properly classified pursuant to such Executive order . . . ." The portions deleted from the subject document(s) pursuant to Exemption 1 contain information about foreign government information; foreign relations or foreign activities of the United States, including confidential sources and are classified under section(s) 1.4 (b), (d) of Executive Order 13526 (E.O. 13526). It has been determined that release of the information could reasonably be expected to cause damage to the national security.

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With respect to the information withheld from disclosure pursuant to Exemption 1, the DOE has no further discretion under the FOIA or DOE regulations to release information currently and properly classified pursuant to E.O. 13526.

Exemption 4 of the FOIA protects "trade secrets and commercial or financial information obtained from a person [that is] privileged or confidential." 5 U.S.C. § 552(b)(4). This exemption is intended to protect the interests of both the Government and submitters of information. Exemption 4 affords protection to submitters who provide trade secrets, or commercial or financial information to the Government by safeguarding them from the competitive disadvantages that could result from disclosure. The exemption covers two broad categories of information in Federal agency records: 1) trade secrets, and 2) information that is (a) commercial or financial and (b) obtained from a person, and (c) privileged and confidential.

The information withheld under Exemption 4 includes sensitive commercial and financial information that is maintained in confidence by the submitters, is not available in public sources, and was submitted under an implied assurance of confidentiality. Furthermore, disclosure may curtail submitters from providing such information to the government in the future. For these reasons, this information is being withheld.

Exemption 5 of the FOIA protects from mandatory disclosure "inter-agency or intra-agency memorandums or letters that would not be available by law to a party other than an agency in litigation with the agency…." 5 U.S.C. § 552(b)(5). Exemption 5 incorporates the deliberative process privilege and the attorney-client privilege. The deliberative process privilege protects recommendations, advice, and opinions that are part of the process by which agency decisions and polices are formulated. The information withheld under this privilege consists of inter-agency pre-decisional information.

Portions of these documents reflect deliberative discussions. The DOE may consider these preliminary views as part of the process that will lead to the agency's final policy decision about these matters. The withheld information does not represent a final agency position, and its release would compromise the deliberative process by which the government makes its decisions. Thus, the information is being withheld under Exemption 5 of the FOIA as pre-decisional material that is part of the agency's deliberative process.

Exemption 6 is generally referred to as the "personal privacy" exemption; it provides that the disclosure requirements of FOIA do not apply to "personnel and medical files and similar files the disclosure of which would constitute a clearly unwarranted invasion of personal privacy." 5 U.S.C. § 552(b)(6). In applying Exemption 6, the DOE considered: 1) whether a significant privacy interest would be invaded; 2) whether the release of the information would further the public interest by shedding light on the operations or activities of the Government; and 3) whether in balancing the privacy interests against the public interest, disclosure would constitute a clearly unwarranted invasion of privacy.

The information withheld under Exemption 6 consists of nonpublic, private, or secure email addresses and telephone numbers. This information qualifies as "similar files" because it is information in which an individual has a privacy interest. Moreover, releasing the information

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could subject the individuals to unwarranted or unsolicited communications. Since no public interest would be served by disclosing this information, and since there is a viable privacy interest that would be threatened by such disclosure, Exemption 6 authorizes withholding the information. Therefore, we have determined that the public interest in the information's release does not outweigh the overriding privacy interests in keeping it confidential.

This satisfies the standard set forth at 5 U.S.C. § 552(a)(8)(A) that agencies shall withhold information under FOIA "only if (I) the agency reasonably foresees that disclosure would harm an interest protected by an exemption . . . ; or (II) disclosure is prohibited by law . . . ." 5 U.S.C. § 552(a)(8)(A) also provides that whenever full disclosure of a record is not possible, agencies shall "consider whether partial disclosure of information is possible . . . ." Thus, we have determined that, in certain instances, a partial disclosure is proper.

Pursuant to 10 C.F.R. § 1004.6(d), Dr. Andrew P. Weston-Dawkes, Director, Office of Classification, Office of Environment, Health, Safety and Security, is the official responsible for the denial of the DOE classified information. Pursuant to 10 C.F.R. § 1004.7(b)(2), I am the individual responsible for the determination to withhold all other information described above. The FOIA requires that "any reasonably segregable portion of a record shall be provided to any person requesting such record after deletion of the portions which are exempt." 5 U.S.C. § 552(b). As a result, a redacted version of the documents are being released to you in accordance with 10 C.F.R. § 1004.7(b)(3).

The FOIA provides for the assessment of fees for the processing of requests. See 5 U.S.C. § 552(a)(4)(A)(i); see also 10 C.F.R. § 1004.9(a). In our October 16, 2019 letter, you were advised that your request was placed in the "other" category for fee purposes. Requesters in this category are provided with two free hours of search time and 100 free pages of duplication. In that same letter, we informed you that your fee waiver was granted. Thus, no fees will be charged for processing your request.

You also requested expedited processing of your request. Your request for expedited processing was initially denied in our letters dated October 16, 2019. Upon reconsideration of our decision to deny expedited processing of your request, your request was granted in our letter dated November 22, 2019.

If you have any questions about the processing of the request or this letter, your attorney may contact Hilarie Snyder, Trial Attorney, at Hilarie.E.Snyder@usdoj.gov or 202-305-0747.

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I appreciate the opportunity to assist you with this matter.

Sincerely,

Alexander C. Morris

Digitally signed by Alexander C. Morris
Date: 2021 05.17 16:34:06 -04'00'

Alexander C. Morris
FOIA Officer
Office of Public Information

Enclosures

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INDEX

Request #: HQ-2020-00051-F

Fourteenth and final partial response for Mr. Austin R. Evers for:

All email communications (including email messages, calendar invitations, and attachments thereto, and including complete email chains) sent by the DOE officials specified below containing any of the following key terms:

i. Naftogaz
ii. Favorov
iii. Fruman
iv. Parnas
v. Sargeant
vi. 45 Energy Group
vii. Baumgardner
viii. SigmaBleyzer
ix. Bleyzer
x. Bensh
xi. Pelicourt
xii. Rudy
xiii. Rudolph
xiv. Giuliani
xv. Giuiliani
xvi. Guliani
xvii. Guiliani
xviii. Toensing
xix. diGenova
xx. Kislin
xxi. Hunter
xxii. Biden
xxiii. Parnas
xxiv. Fruman
xxv. Kolomoisky
xxvi. Klitschko
xxvii. Burisma
xxviii. Shokin
xxix. Lutsenko
xxx. Zelensky
xxxi. Zelenskyy
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xxxiii. Yermak
xxxiv. Bakanov
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Specified DOE Officials:
i. Secretary Rick Perry
ii. Deputy Secretary Dan Brouillette
iii. Former Chief of Staff Brian McCormack
iv. Anyone currently serving in the capacity of Chief of Staff
v. Under Secretary Mark Menezes
vi. Samuel Buchan, Special Adviser
vii. William Cooper, General Counsel
viii. Paul Tumminia, Senior Advisor, Office of Russian and Eurasian Affairs
ix. Anyone serving in the capacity of White House Advisor or Liaison

Please produce all responsive records from January 1, 2019, through the date the search is conducted.

DOE has located eighteen (18) documents responsive to your request.

- Thirteen (13) documents *are being released in part pursuant to Exemptions 1, 4, 5, and 6.*
- One (1) document *is in consult* with CIA, and will be released once CIA provides DOE with their release determinations.
- One (1) document *is in consult* with DOS, and will be released once DOS provides DOE with their release determinations.
- Three (3) documents *are in consult* with both CIA and DOS, and will be released once CIA and DOS provides DOE with their release determinations.

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From: Tumminia, Paul
To: Wondra, Nicholas M.
Cc: Noel, Emily E
Subject: RE: Ukraine Docs
Date: Friday, August 30, 2019 11:56:00 AM
Attachments: U-NER_MASTER_DRAFT_ENG(CLEAN)LN+05082015 (002).pdf

Nic: 2015 Winter action plan attached..

-----Original Message-----
From: Wondra, Nicholas M.
Sent: Friday, August 30, 2019 11:24 AM
To: Tumminia, Paul <paul.tumminia@hq.doe.gov>
Cc: Noel, Emily E <emily.noel@hq.doe.gov>
Subject: Ukraine Docs

Paul, thanks for including me this morning on the various calls. All were informative.

When you can, just a reminder to pass the following to me if you could:
-2014-2015 Contingency Plan
-201-16 (?) Winter action plan document
-scope of work for the PNNL project we discussed
-Danylyuk (or staff's) email

Thanks & best regards, Nic

Nicholas "Nic" Wondra
Office of the Under Secretary for Nuclear Security
National Nuclear Security Administration
Office: 202/586-3641
Front Office: 202/586-5555
NIPR: Nicholas.Wondra@nnsa.doe.gov
SIPR: (b) (6)
NESAN: (b) (6)

~~Attachment contains CONFIDENTIAL~~
When separated from attachment,
this page is UNCLASSIFIED

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Derivative Declassifier review required prior to declassification

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DOE OFFICE OF CLASSIFICATION
DATE

Classified by: Matt B. Moury, AU-1, DOE
Reason: 1.4(b)(d)
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~~CONFIDENTIAL/FOREIGN GOVERNMENT INFORMATION~~
~~MODIFIED HANDLING AUTHORIZED~~ Document 12

From: Tumminia, Paul
To: Vadym Glamazdin; Oleksandr Kharchenko
Subject: FW: [EXTERNAL] Cooperation with Ukraine
Date: Tuesday, September 10, 2019 9:36:00 AM
Attachments: 190903_Ukr-Pol gas position paper 2_0.docx
msg_info.txt

Guys: quick question: could you confirm that this is a genuine email....

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DOE OFFICE OF CLASSIFICATION
DATE 1/12/20

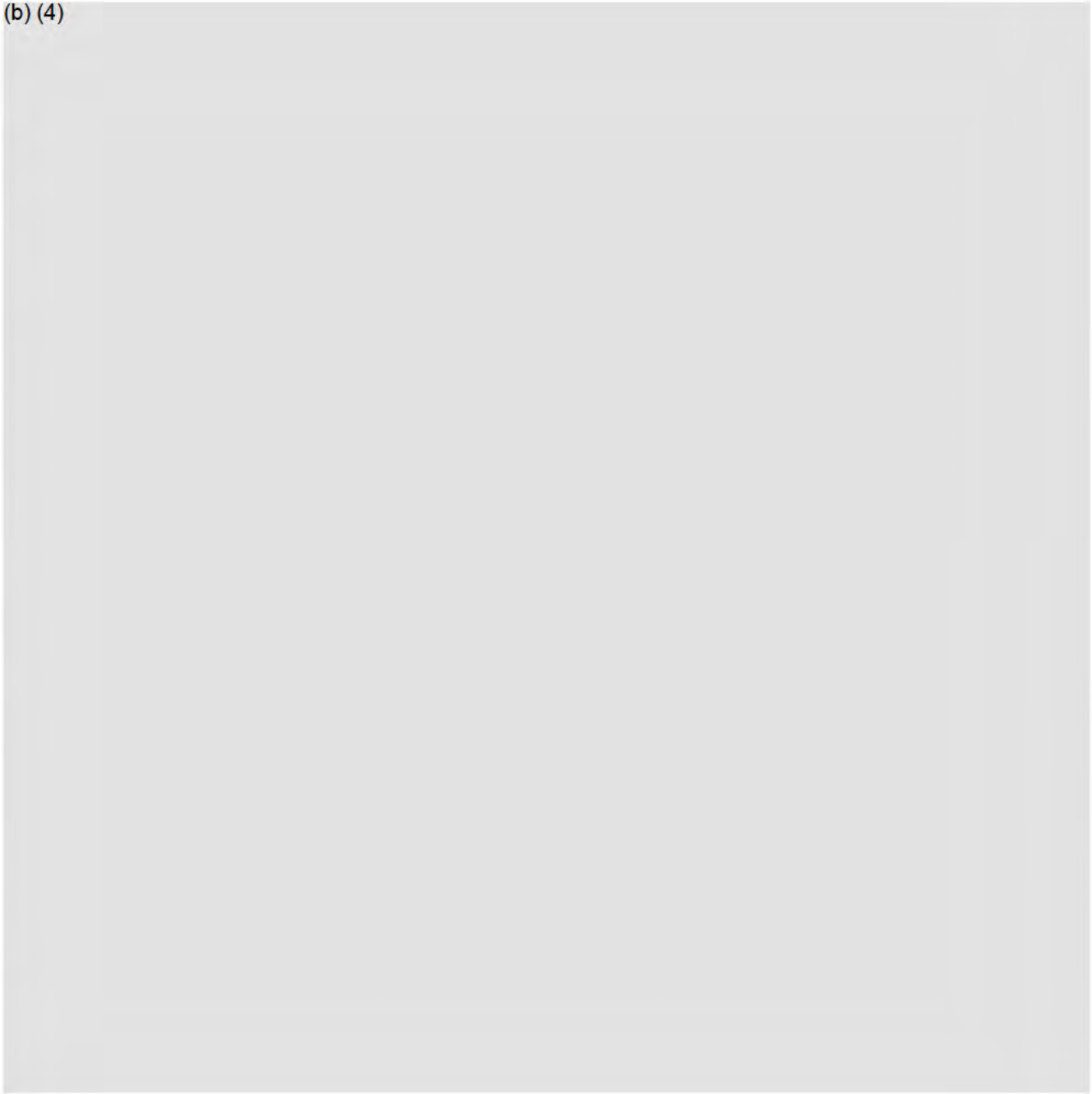
~~**Derivative Declassifier review required prior to declassification**~~

~~**Classified by: Matt B. Moury, AU-1, DOE**~~
~~**Reason: 1.4(b)(d)**~~
~~**Declassifiy on: 20451115**~~

~~C/FGI MOD~~

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Attachment 2

NON RESPONSIVE ATTACHMENT OMMITTED

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~~CONFIDENTIAL/FOREIGN GOVERNMENT INFORMATION~~
~~MODIFIED HANDLING AUTHORIZED~~ Document 13

Document 3

From: Tumminia, Paul
To: Francis, Maria
Cc: Sandoli, Robert; McKearin, Josh; Buchan, Samuel
Subject: FW: [EXTERNAL] Cooperation with Ukraine
Date: Tuesday, September 10, 2019 9:36:00 AM
Attachments: 190903_Ukr-Pol gas position paper 2_0.docx
msg_info.txt

Maria:
Below please find an email from the minister of energy to Secretary Perry. Could we please log this in to the system,
(b) (5)

Thanks, -p

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_____ **DATE** 11/13/20

~~**Derivative Declassifier review required prior to declassification**~~

~~**Classified by: Matt B. Moury, AU-1, DOE**~~
~~**Reason: 1.4(b)(d)**~~
~~**Declassify on: 20451115**~~

~~C/FGI MOD~~

AMERICAN OVERSIGHT

Attachment 1

DUPLICATE ATTACHMENT OMMITTED

AMERICAN OVERSIGHT

Attachment 2

NON RESPONSIVE ATTACHMENT OMMITTED

AMERICAN OVERSIGHT

p 72

Document 4

From: Tumminia, Paul
To: Sandoli, Robert
Cc: Noel, Emily E
Subject: FW: added language to resilience plan
Date: Friday, September 13, 2019 3:55:00 PM
Attachments: Ukraine_91319.pdf

Attachment contains C/FGI-MOD. When separated this email is UNCLASSIFIED.

Rob:
I am forwarding the resilience for one last new edit: Sam asked that the document include a reference as follows on page III of the executive summasy :

(b) (5)

Do you have any thoughts? Ok?

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DATE 11/23/20

From: Grimes (Baltz), Emily [mailto:(b) (6)]
Sent: Friday, September 13, 2019 3:41 PM
To: Tumminia, Paul <Paul.Tumminia@Hq.Doe.Gov>; Hornbuckle, Laura (b) (6)
Cc: Buchan, Samuel <Samuel.Buchan@hq.doe.gov>
Subject: Re: added language to resilience plan

Hi Paul,
The attached version of the report includes the new language following the conclusion of the Executive Summary on page III. With your final approval, we can arrange for printing and have these to you by September 23.

Thanks,
Emily

From: "Tumminia, Paul" <paul.tumminia@hq.doe.gov>
Date: Wednesday, September 11, 2019 at 3:35 PM
To: "Grimes (Baltz), Emily" (b) (6) "Hornbuckle, Laura" (b) (6)
Cc: "Buchan, Samuel" <samuel.buchan@hq.doe.gov>
Subject: added language to resilience plan

Email Originated Externally

All:
It was very nice to speak with you today. As I mentioned, we would like to add language into the final text for the resilience (b) (5) As we discussed, you will provide some thoughts as to where this can be placed. The language should read as follows:

AMERICAN OVERSIGHT

(b) (5)

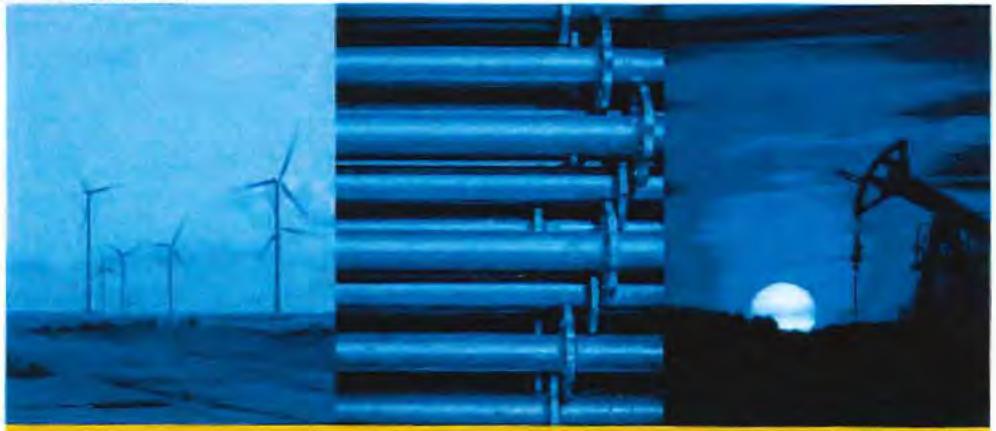
I will let Sam weigh in if he would like to edit this language.
Once we finalize this last piece, we would be ready to print and hopefully deliver the week of September 23.... Thanks! -p

Paul Tumminia
Senior Advisor
Office of Europe and Eurasian Affairs
U.S. Department of Energy
Direct Dial: (202) 586-8036

AMERICAN OVERSIGHT

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Enhancing Energy Resilience in Ukraine:
Assessment and Recommendations



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C/FGI-MOD

Classified by: Matt B. Moury, AU-1, DOE
Reason: 1.4(b)(d)
Declassifiy on: 20451115

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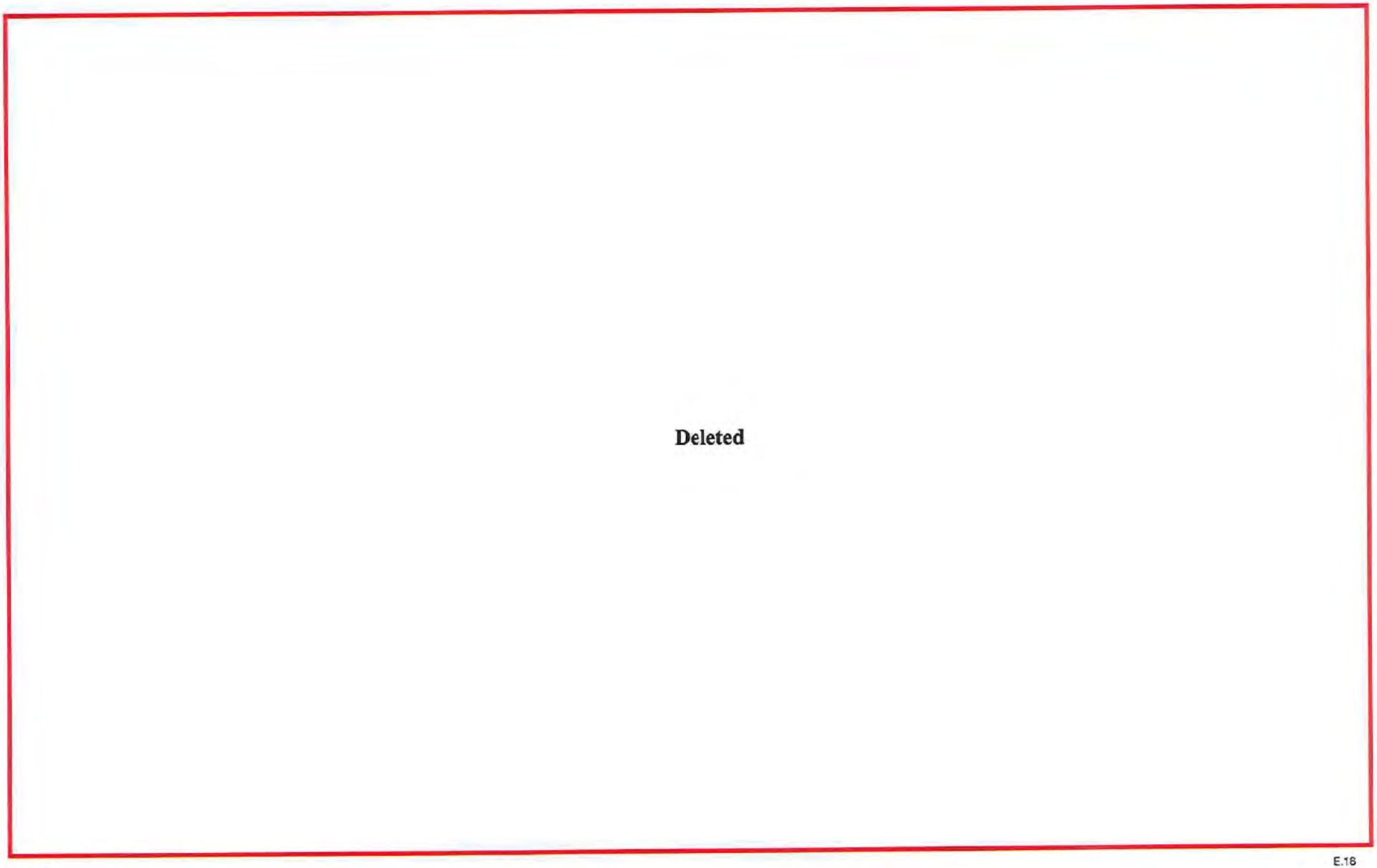
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p 68

Document 5

~~Attachment contains C/FGI-MOD. When separated from attachment this email is UNCLASSIFIED.~~

From: Tumminia, Paul
To: Lockwood, Andrea; Buchan, Samuel
Cc: Sandoli, Robert; McKearin, Josh; Noel, Emily E
Subject: FW: added language to resilience plan
Date: Tuesday, September 17, 2019 2:21:00 PM
Attachments: Ukraine_91319.pdf

All:
One last email before I pull the trigger... This version has the amended language regarding (b) (5)

I will have 25 printed and ready for next week.....In case there is a S1-Z meeting...

From: Grimes (Baltz), Emily [mailto:(b) (6)]
Sent: Friday, September 13, 2019 3:41 PM
To: Tumminia, Paul <Paul.Tumminia@Hq.Doe.Gov>; Hornbuckle, Laura (b) (6)
Cc: Buchan, Samuel <Samuel.Buchan@hq.doe.gov>
Subject: Re: added language to resilience plan

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DATE 11/25/19

Hi Paul,
The attached version of the report includes the new language following the conclusion of the Executive Summary on page III. With your final approval, we can arrange for printing and have these to you by September 23.

Thanks,
Emily

From: "Tumminia, Paul" <paul.tumminia@hq.doe.gov>
Date: Wednesday, September 11, 2019 at 3:35 PM
To: "Grimes (Baltz), Emily" (b) (6) , "Hornbuckle, Laura" (b) (6)
Cc: "Buchan, Samuel" <samuel.buchan@hq.doe.gov>
Subject: added language to resilience plan

Email Originated Externally

All:
It was very nice to speak with you today. As I mentioned, we would like to add language into the final text for the resilience (b) (5) . As we discussed, you will provide some thoughts as to where this can be placed. The language should read as follows:

(b) (5)

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AMERICAN OVERSIGHT

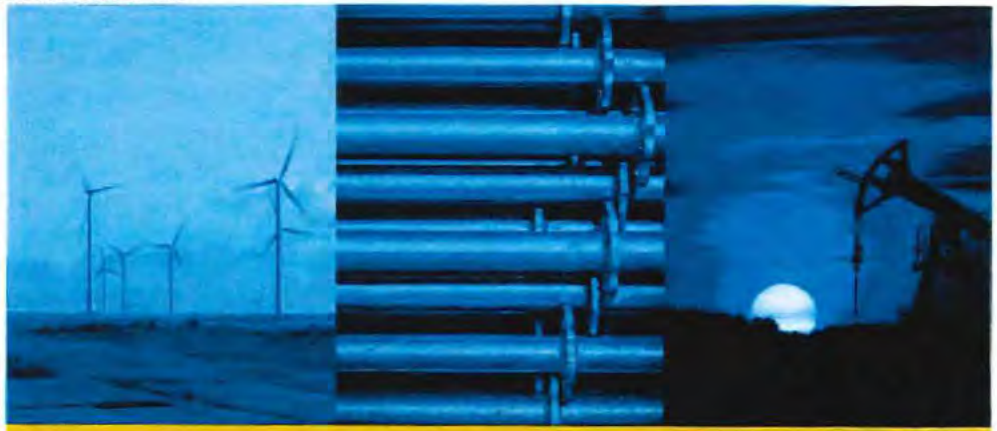
I will let Sam weigh in if he would like to edit this language.
Once we finalize this last piece, we would be ready to print and hopefully deliver the week of September 23.... Thanks! -p

Paul Tumminia
Senior Advisor
Office of Europe and Eurasian Affairs
U.S. Department of Energy
Direct Dial: (202) 586-8036

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Enhancing Energy Resilience in Ukraine:
Assessment and Recommendations



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Classified by: Matt B. Moury, AU-1, DOE
Reason: 1.4(b)(d)
Declassifiy on: 20451115

DOE-19-1271-P-000226

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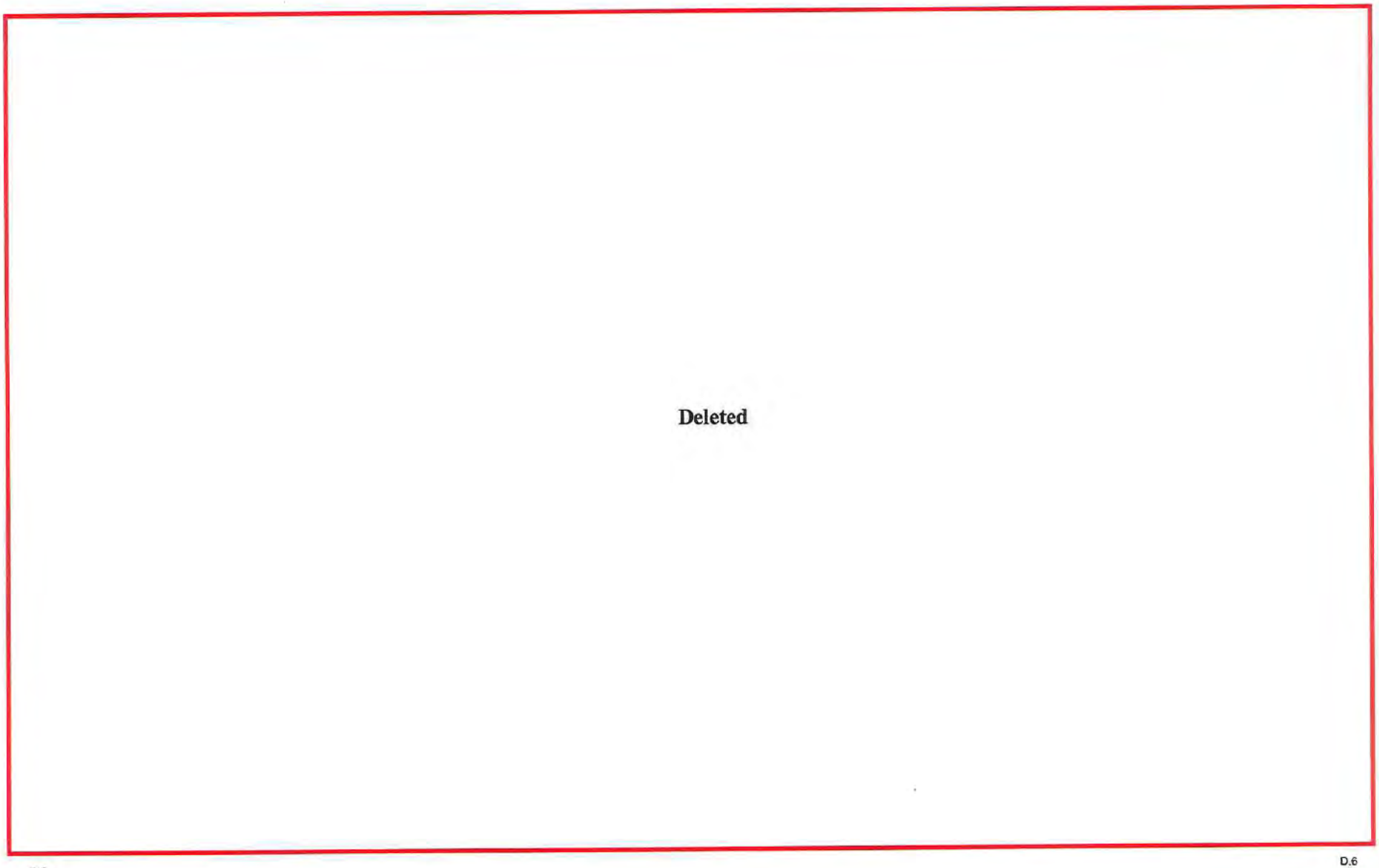
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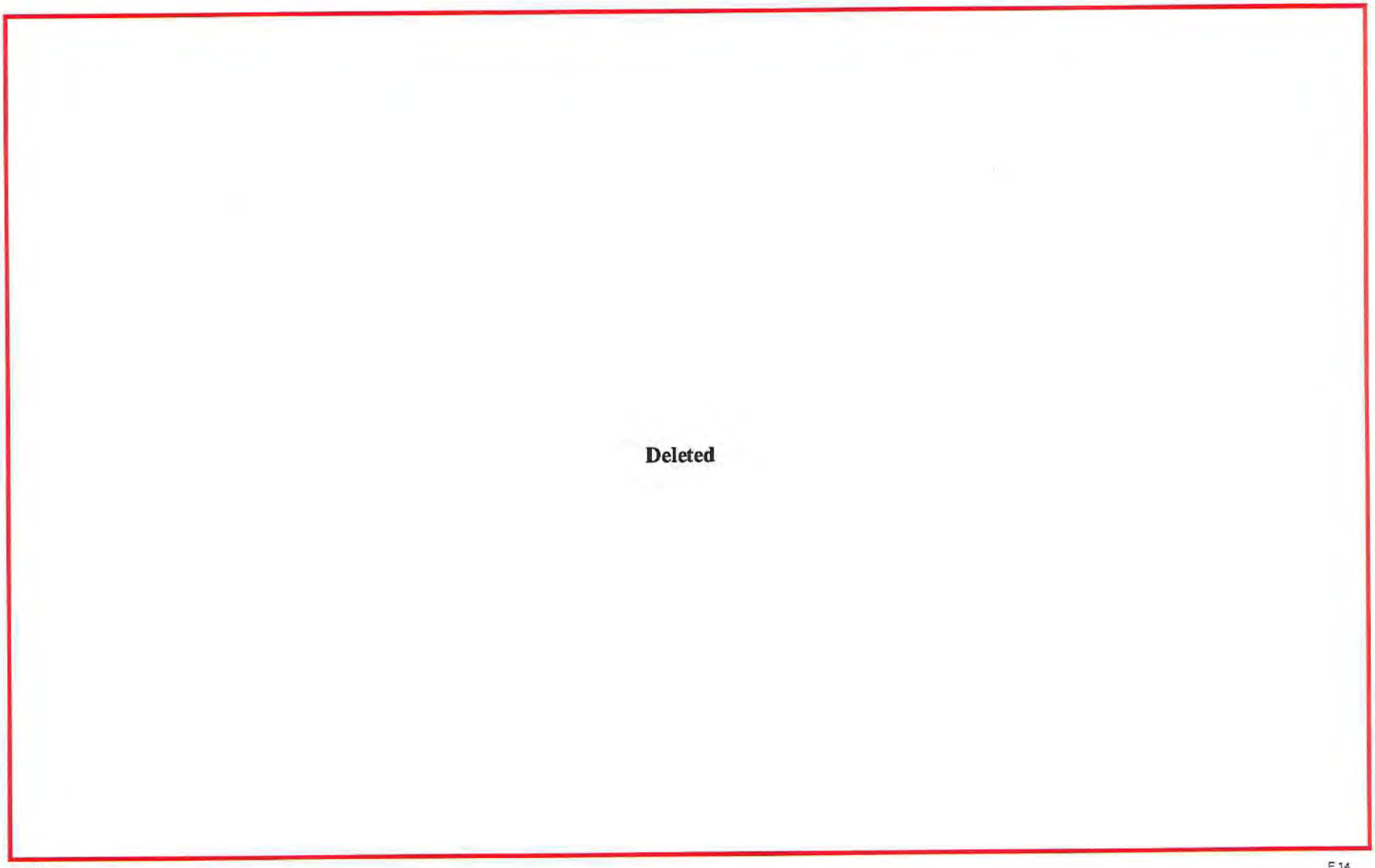
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p1

Document 6

From: Buchan, Samuel
To: Raffi.Nersessian@doe.gov; Fox, Jeffrey N.
Subject: FW: [EXTERNAL] Short note Ukraine-EU-Russia negotiations and request about Vilnius
Date: Monday, September 23, 2019 7:06:00 PM
Attachments: 2019-09-09 Brussels Update 5.pdf

FYSA

From: Oleksandr Kharchenko [mailto: (b) (6)
Sent: Monday, September 23, 2019 4:06 PM
To: Buchan, Samuel <samuel.buchan@hq.doe.gov>
Subject: [EXTERNAL] Short note Ukraine-EU-Russia negotiations and request about Vilnius

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Derivative Declassifier review required prior to declassification

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Classified by: Matt B. Moury, AU-1, DOE
Reason: 1.4(b)(d)
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Document 7

Document 11

~~C/FGI-MOD~~
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From: Tumminia, Paul
To: Spracklen, James L; Vogt, Christopher J
Cc: Sarkus, Thomas A; Evans, Jeffery A; Dwain Bell
Subject: RE: Top 3 Requested by Oleksandr
Date: Tuesday, October 01, 2019 4:01:00 PM

Chris: I would agree. Thanks Chris!

From: Spracklen, James L [mailto:James.Spracklen@pnnl.gov]
Sent: Tuesday, October 01, 2019 3:09 PM
To: Vogt, Christopher J <christopher.vogt@pnnl.gov>; Tumminia, Paul <paul.tumminia@hq.doe.gov>
Cc: Sarkus, Thomas A <thomas.sarkus@netl.doe.gov>; Evans, Jeffery A <jeff.evans@pnnl.gov>; Dwain Bell (b) (6)
Subject: RE: Top 3 Requested by Oleksandr

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DOE OFFICE OF CLASSIFICATION
_____ **DATE** 11/25/20

Looks great to me, Chris.

Jim

From: Vogt, Christopher J <Christopher.Vogt@pnnl.gov>
Sent: Tuesday, October 01, 2019 12:06 PM
To: paul.tumminia@hq.doe.gov; Spracklen, James L <James.Spracklen@pnnl.gov>
Cc: Sarkus, Thomas A. <Thomas.Sarkus@NETL.DOE.GOV>; Evans, Jeffery A <jeff.evans@pnnl.gov>; Dwain Bell (b) (6)
Subject: Top 3 Requested by Oleksandr

Paul, Jim –

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~~**Derivative Declassifier review required prior to declassification**~~

~~**C/FGI-MOD**~~

~~**Classified by: Matt B. Moury, AU-1, DOE**~~
~~**Reason: 1.4(b)(d)**~~
~~**Declassify on: 20451115**~~

AMERICAN OVERSIGHT

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All for now,
Chris Vogt"

Thanks,
Chris V.

AMERICAN OVERSIGHT

From: Tumminia, Paul
To: Lockwood, Andrea; Sandoli, Robert; Buchan, Samuel; Noel, Emily E; Bell, Heather (Embassy KYIV)
Cc: McKearin, Josh
Subject: FW: Top Recommendations
Date: Thursday, October 03, 2019 11:08:00 AM
Attachments: Presentation Winter Action Recommendations for 2019-final_UA.pptx
Presentation Winter Action Recommendations for 2019-final.pptx

Please see presentation from the WAP team.

From: Vogt, Christopher J [mailto:Christopher.Vogt@pnnl.gov]
Sent: Thursday, October 03, 2019 10:52 AM
To: Oleksandr Kharchenko (b) (6)
Cc: Dwain Bell (b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A <thomas.sarkus@netl.doe.gov>; Spracklen, James L <james.spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk (b) (6) ; Tumminia, Paul <paul.tumminia@hq.doe.gov>
Subject: RE: Top Recommendations

Olexandr –

The presentation that we delivered at the Ministry of Energy and Environmental Protection is attached.

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DATE 8/4/20 LD

Thank you,
Chris Vogt

From: Oleksandr Kharchenko [mailto:(b) (6)]
Sent: Wednesday, October 02, 2019 11:31 PM
To: Vogt, Christopher J <Christopher.Vogt@pnnl.gov>
Cc: Dwain Bell (b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A. <Thomas.Sarkus@netl.doe.gov>; Spracklen, James L <James.Spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk (b) (6) ; paul.tumminia@hq.doe.gov
Subject: Re: Top Recommendations

Hi, Chris,

1. No. But could you send me .ppt file with presentation?
2. Yes, of course. We have to distribute it to all involved sides for further discussio and check.

On Wed, Oct 2, 2019 at 23:41 Vogt, Christopher J <Christopher.Vogt@pnnl.gov> wrote:

Oleksandr –

Our latest draft of the report is attached. I inserted our top 3 recommendations at the front, and made minor changes to other sections for consistency.

~~Derivative Declassifier review required prior to declassification~~

~~Classified by: Matt B. Moury, AU-1, DOE~~
~~Reason: 1.4(b),(d)~~
~~Declassify on: 20450622~~

AMERICAN OVERSIGHT

A couple questions for you:

1. Do you need an updated presentation? Should that be in Ukrainian?

2. Can we distribute the attached DRAFT to others on our working group, including Ukrainian participants and European Union participants?

Thank you,
Chris Vogt

From: Oleksandr Kharchenko [mailto (b) (6)]
Sent: Wednesday, October 02, 2019 1:16 AM
To: Vogt, Christopher J <Christopher.Vogt@pnnl.gov>
Cc: Dwain Bell (b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A. <Thomas.Sarkus@netl.doe.gov>; Spracklen, James L <James.Spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk (b) (6) ; paul.tumminia@hq.doe.gov
Subject: Re: Top Recommendations

Chris,

Thank you one more time for hard work.

Could you share last draft report with me (it's look than I miss actual version)?

On Tue, Oct 1, 2019 at 23:01 Vogt, Christopher J <Christopher.Vogt@pnnl.gov> wrote:

Oleksandr –

Please find our top 3 immediate recommendations attached.

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All for now,
Chris Vogt

--
With best regards,
Oleksandr Kharchenko,
Senior Energy Adviser
National Security and Defence
Council of Ukraine

--
With best regards,
Oleksandr Kharchenko,
Senior Energy Adviser
National Security and Defence
Council of Ukraine

AMERICAN OVERSIGHT

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Derivative Declassifier review required prior to declassification

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DATE 9/4/2020

~~Classified by: Matt B. Moury, AU-1, DOE~~
~~Reason: 1.4(b)(d)~~
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p6

Document 9

From: Tumminia, Paul
To: Buchan, Samuel
Cc: Lockwood, Andrea; Sandoli, Robert; Noel, Emily E
Subject: FW: DRAFT Report
Date: Friday, October 04, 2019 11:09:00 AM
Attachments: Winter Action Recommendations for 2019 -MASTER.PDF

I think I forwarded last week. They are working on the Ukrainian version. I am not sure we should print the whole thing, but I will print the executive summary

From: Vogt, Christopher J [mailto:Christopher.Vogt@pnnl.gov]
Sent: Friday, September 27, 2019 1:24 AM
To: Tumminia, Paul <paul.tumminia@hq.doe.gov>; Spracklen, James L <james.spracklen@pnnl.gov>
Cc: Sherman, Nicholas (Embassy Brussels) <Shermann@state.gov>; Mejia, Cori-Lynn <cori.mejia@pnnl.gov>
Subject: DRAFT Report

Paul, Jim –

Our DRAFT report is attached. We sent it for printing a few minutes ago. We should have a couple copies to show at our presentation today, to indicate that we actually produced something.

We intend to offer a translated version by October 8. That is covered in our statement of work with our translators.

If you read this draft, you will see that it is full of artifacts of translations from Ukrainian. If we were tasked to produce a releasable English version, significant editing would be required.

We're on schedule to review our summary presentation at 1300 with our working group, then deliver the presentation to the Minister of Energy and others at 1500. I'll send a final update after those events.

Thanks,
Chris V.

~~Attachment contains C/FGI-MOD. When separated this email is UNCLASSIFIED.~~

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_____ **DATE** 11/23/20

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AMERICAN OVERSIGHT

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Winter Action Recommendations for 2019-2020

Fuel and Energy Sector

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~~Reason: 1.4(b),(d)~~
~~Declassifiy on: 20451115~~

9-27-2019

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p 11

Document 10

From: Tumminia, Paul
To: Bell, Heather (Embassy KYIV); Noel, Emily E
Cc: McKearin, Josh; Sandoli, Robert; Lockwood, Andrea; Buchan, Samuel
Subject: RE: [EXTERNAL] RE: Top Recommendations
Date: Friday, October 04, 2019 7:13:20 AM

Absolutely agree! We are in p-Tec hell but perhaps next week we can address.

Sent with BlackBerry Work
(www.blackberry.com)

From: Bell, Heather R (Kyiv) <BellHR@state.gov>
Date: Friday, Oct 04, 2019, 4:15 AM
To: Tumminia, Paul <paul.tumminia@hq.doe.gov>, Noel, Emily E <emily.noel@hq.doe.gov>
Cc: McKearin, Josh <josh.mckearin@hq.doe.gov>, Sandoli, Robert <robert.sandoli@hq.doe.gov>, Lockwood, Andrea <andrea.lockwood@hq.doe.gov>, Buchan, Samuel <samuel.buchan@hq.doe.gov>
Subject: [EXTERNAL] RE: Top Recommendations

Paul and Emily-

I'm writing to ask (b) (5)

Let me know your thoughts.

Thanks!

Heather Bell
DOE Kyiv
(b) (6)

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DATE 11/23/20

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From: Tumminia, Paul <paul.tumminia@hq.doe.gov>
Sent: Thursday, October 3, 2019 6:09 PM
To: Lockwood, Andrea <andrea.lockwood@hq.doe.gov>; Sandoli, Robert <Robert.Sandoli@hq.doe.gov>; Buchan, Samuel <Samuel.Buchan@hq.doe.gov>; Noel, Emily E <emily.noel@hq.doe.gov>; Bell, Heather R (Kyiv) <BellHR@state.gov>
Cc: McKearin, Josh <josh.mckearin@hq.doe.gov>
Subject: FW: Top Recommendations

Please see presentation from the WAP team.

~~Derivative Declassifier review required prior to declassification~~

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~~Classified by: Matt B. Moury, AU-1, DOE~~
~~Reason: 1.4(b),(d)~~
~~Declassifiy on: 20451115~~

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~~C/FGI-MOD~~

From: Vogt, Christopher J [mailto:Christopher.Vogt@pnnl.gov]
Sent: Thursday, October 03, 2019 10:52 AM
To: Oleksandr Kharchenko (b) (6)
Cc: Dwain Bell (b) (6) Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A <thomas.sarkus@netl.doe.gov>; Spracklen, James L <james.spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk (b) (6) ; Tumminia, Paul <paul.tumminia@hq.doe.gov>
Subject: RE: Top Recommendations

Olexandr –

The presentation that we delivered at the Ministry of Energy and Environmental Protection is attached.

Thank you,
Chris Vogt

From: Oleksandr Kharchenko [mailto (b) (6)]
Sent: Wednesday, October 02, 2019 11:31 PM
To: Vogt, Christopher J <Christopher.Vogt@pnnl.gov>
Cc: Dwain Bell (b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A. <Thomas.Sarkus@netl.doe.gov>; Spracklen, James L <James.Spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk (b) (6) ; paul.tumminia@hq.doe.gov
Subject: Re: Top Recommendations

Hi, Chris,

1. No. But could you send me .ppt file with presentation?
2. Yes, of course. We have to distribute it to all involved sides for further discussio and check.

On Wed, Oct 2, 2019 at 23:41 Vogt, Christopher J <Christopher.Vogt@pnnl.gov> wrote:

Oleksandr –

Our latest draft of the report is attached. I inserted our top 3 recommendations at the front, and made minor changes to other sections for consistency.

A couple questions for you:

1. Do you need an updated presentation? Should that be in Ukrainian?

2. Can we distribute the attached DRAFT to others on our working group, including Ukrainian participants and European Union participants?

Thank you,
Chris Vogt

~~C/FGI-MOD~~

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~~C/FGI MOD~~

From: Oleksandr Kharchenko [mailto:(b) (6)]
Sent: Wednesday, October 02, 2019 1:16 AM
To: Vogt, Christopher J <Christopher.Vogt@pnnl.gov>
Cc: Dwain Bell (b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A. <Thomas.Sarkus@netl.doe.gov>; Spracklen, James L <James.Spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk (b) (6) ; paul.tumminia@hq.doe.gov
Subject: Re: Top Recommendations

Chris,

Thank you one more time for hard work.

Could you share last draft report with me (it's look than I miss actual version)?

On Tue, Oct 1, 2019 at 23:01 Vogt, Christopher J <Christopher.Vogt@pnnl.gov> wrote:

Oleksandr –

Please find our top 3 immediate recommendations attached.

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DOE b(1)

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All for now,
Chris Vogt

--
With best regards,
Oleksandr Kharchenko,
Senior Energy Adviser
National Security and Defence
Council of Ukraine

--
With best regards,
Oleksandr Kharchenko,
Senior Energy Adviser
National Security and Defence
Council of Ukraine

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~~MODIFIED HANDLING AUTHORIZED~~

p6

Document 11

From: Tumminia, Paul
To: Sandoli, Robert; Bell, Heather (Embassy KYIV); Noel, Emily E
Cc: McKearin, Josh; Lockwood, Andrea; Buchan, Samuel
Subject: RE: [EXTERNAL] RE: Top Recommendations
Date: Friday, October 04, 2019 7:59:00 AM

As a follow-up: for andrea I have not gone through Exsec process. She will usually confer with A/S but no CAP.

From: Sandoli, Robert
Sent: Friday, October 04, 2019 7:21 AM
To: Tumminia, Paul <paul.tumminia@hq.doe.gov>; Bell, Heather (Embassy KYIV) <BellHR@state.gov>; Noel, Emily E <emily.noel@hq.doe.gov>
Cc: McKearin, Josh <josh.mckearin@hq.doe.gov>; Lockwood, Andrea <andrea.lockwood@hq.doe.gov>; Buchan, Samuel <samuel.buchan@hq.doe.gov>
Subject: RE: [EXTERNAL] RE: Top Recommendations

Always good form to show appreciation when deserved.

Heather, (b) (5)

At DAS level signature, not sure we need to go through ExecSec, so we could turn this around quickly. But Andrea traveling all next week, and she doesn't have autopen, as far as I know.

So would be the week after.

From: Tumminia, Paul <paul.tumminia@hq.doe.gov>
Date: Friday, Oct 04, 2019, 7:13 AM
To: Bell, Heather (Embassy KYIV) <BellHR@state.gov>, Noel, Emily E <emily.noel@hq.doe.gov>
Cc: McKearin, Josh <josh.mckearin@hq.doe.gov>, Sandoli, Robert <robert.sandoli@hq.doe.gov>, Lockwood, Andrea <andrea.lockwood@hq.doe.gov>, Buchan, Samuel <samuel.buchan@hq.doe.gov>
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Cc: McKearin, Josh <josh.mckearin@hq.doe.gov>, Sandoli, Robert <robert.sandoli@hq.doe.gov>, Lockwood, Andrea <andrea.lockwood@hq.doe.gov>, Buchan, Samuel <samuel.buchan@hq.doe.gov>
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Paul and Emily-

~~Derivative Declassifier review required prior to declassification~~

~~C/FGI-MOD~~

~~Classified by: Matt B. Moury, AU-1, DOE~~
~~Reason: 1.4(b)(d)~~
~~Declassify on: 20451115~~

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~~C/FGI MOD~~

I'm writing to ask(b) (5) . Let me know your thoughts.
Thanks!

Heather Bell
DOE Kyiv
(b) (6)

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To: Lockwood, Andrea <andrea.lockwood@hq.doe.gov>; Sandoli, Robert <Robert.Sandoli@hq.doe.gov>; Buchan, Samuel <Samuel.Buchan@hq.doe.gov>; Noel, Emily E <emily.noel@hq.doe.gov>; Bell, Heather R (Kyiv) <BellHR@state.gov>
Cc: McKearin, Josh <josh.mckearin@hq.doe.gov>
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To: Oleksandr Kharchenko(b) (6)
Cc: Dwain Bell(b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A <thomas.sarkus@netl.doe.gov>; Spracklen, James L <james.spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk(b) (6) ; Tumminia, Paul <paul.tumminia@hq.doe.gov>
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Cc: Dwain Bell(b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A. <Thomas.Sarkus@netl.doe.gov>; Spracklen, James L <James.Spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk(b) (6) ; paul.tumminia@hq.doe.gov
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From: Oleksandr Kharchenko [mailto(b) (6)]
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Cc: Dwain Bell(b) (6) ; Evans, Jeffery A <jeff.evans@pnnl.gov>; Sarkus, Thomas A. <Thomas.Sarkus@netl.doe.gov>; Spracklen, James L <James.Spracklen@pnnl.gov>; Volodymyr Tonkogolosyuk(b) (6) ; paul.tumminia@hq.doe.gov
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Oleksandr –

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Please find our top 3 immediate recommendations attached.

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DOE b(1)

All for now,
Chris Vogt

--
With best regards,
Oleksandr Kharchenko,
Senior Energy Adviser
National Security and Defence
Council of Ukraine

--
With best regards,
Oleksandr Kharchenko,
Senior Energy Adviser
National Security and Defence
Council of Ukraine

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~~MODIFIED HANDLING AUTHORIZED~~

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Document 12

From: Tumminia, Paul
To: Lockwood, Andrea; Buchan, Samuel; Sandoli, Robert; McKearin, Josh; Noel, Emily E
Subject: FW: Day 2 Meeting notes -- PCC input
Date: Tuesday, October 22, 2019 12:38:59 PM
Attachments: Day 2 notes - PCC Input.docx

All: here are the days notes. They are uncleared by the embassy but I am sending for your 2pm meeting. Will send cleared notes later.
On the issue of legal fees: (b) (5)

(b) (5)

... thanks -p

Sent with BlackBerry Work
(www.blackberry.com)

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DATE 11/23/20

From: Hamilton, Bruce <bhamilton@anl.gov>
Date: Tuesday, Oct 22, 2019, 7:19 PM
To: Margolis, Anna E <MargolisAE@state.gov>
Cc: Tumminia, Paul <paul.tumminia@hq.doe.gov>, Reich, Nathan M <ReichNM@state.gov>, Verner, Duane R. <dverner@anl.gov>
Subject: Day 2 Meeting notes -- PCC input

Hello Anna,

PCC input drafted with Paul and Nathan follows below and in attached MS Word file.

Bruce.

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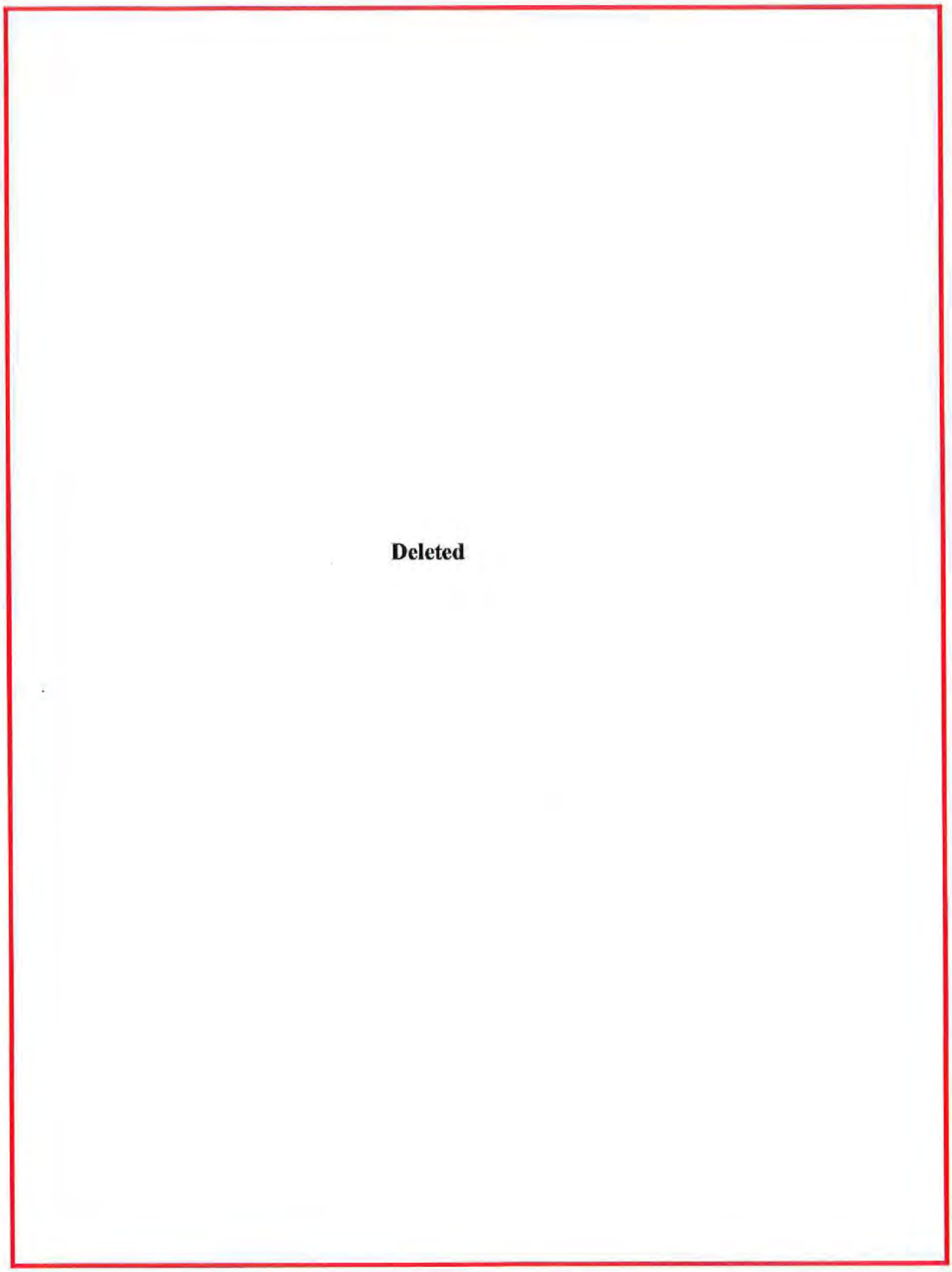
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~~Derivative Declassifier review required prior to declassification~~

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~~Classified by: Matt B. Moury, AU 4, DOE~~
~~Reason: 1.4(b)(d)~~
~~Declassify on: 20351115~~

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Document 13

From: Tumminia, Paul
To: Hamilton, Bruce Patrick
Subject: Template for Ukraine this year
Date: Friday, September 13, 2019 5:58:00 PM
Attachments: Ukraine Winter Action Plan 2019-2020_Short.docx

Bruce:
Please see attached.....

Paul Tumminia
Senior Advisor
Office of Europe and Eurasian Affairs
U.S. Department of Energy
Direct Dial: (202) 586-8036

Email is ~~UNCLASSIFIED~~ when removed from attachment.

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Attachment 95

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DATE 8/4/2020

UKRAINE'S WINTER ENERGY SECURITY PREPAREDNESS AND RESPONSE PLAN II

2019-2020

Ukraine's "Winter Energy Security Preparedness Plan" outlines a series of measures to ensure sufficient energy supplies for residential, industrial and commercial energy consumers for the 2019-2020 heating season. This includes measures to minimize threats to the oil and gas sector, maximizing natural gas storage, and expanding the natural gas reverse flow capacity from the European Union (EU). Additional findings of this planning effort include the need to incorporate training on crisis response coordinating structures and procedures. Training for these recommendations should include comprehensive exercises at all levels to organize and prepare for a crisis response scenario. This is the second iteration of Ukraine's Winter Energy Security Preparedness and Response Plan.

~~Derivative Declassifier review required prior to declassification~~

~~Classified by: Matt B. Moury, AU-1, DOE~~
~~Reason: 1.4(b)(d)~~
~~Declassifiy on: 20450622~~

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EXECUTIVE SUMMARY

1. Overview

Ukraine's "Winter Energy Security Preparedness and Response Plan" (The Plan) outlines a series of measures to ensure sufficient energy supplies for residential, industrial and commercial energy consumers for the 2019-2020 heating season. This includes measures to minimize threats to the oil and gas sector, maximize natural gas storage and expand natural gas reverse flow capacity from the European Union (EU). Additional findings of this planning effort include the need to incorporate training on crisis response coordinating structures and procedures. Training for these recommendations should include comprehensive exercises at all levels to organize and prepare for a crisis response scenario. The Plan defines the following areas:

- Key preparedness measures to help mitigate threat emergency situations in the energy sector; and
- Key response actions to disruptions to power supply systems, district heating and heat generation facilities, and supply of energy resources.

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2. Stakeholder Engagement

Stakeholder engagement and coordination represents a key to success. Streamlined decision making in the event of a crisis greatly reduces response times and danger of gridlock. Tabletop exercises among stakeholders to define roles and responsibilities for executing the Plan can help identify key gaps and lines of communication in the event of a crisis. The Plan provides guidance, *inter alia*, for the following national authorities:

- Ministry of Energy and Coal Industry
- Ministry of Regional Development, Building and Housing

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- Ministry of Internal Affairs
- Ministry of Infrastructure
- Ministry of Defense
- Ministry of Health
- Ministry of Social Policy
- National Electricity Regulatory Commission
- State Nuclear Regulatory Inspectorate
- State Emergency Service
- Naftogaz
- Ukrenergo
- Energoatom
- State Energy Efficiency and Conservation Agencies
- State Highway Agency
- State Special Communication and Data Protection Service
- Local self-government authorities

3. Electricity Generation



Ukraine's electric energy sector relies primarily on thermal power plants (TPP), combined heat and power plants (CHP), hydroelectric power plants (HPP), pumped storage power plants (PSP), and nuclear power plants (NPP). The system (excluding the Crimean energy system) generates approximately 55 gigawatt (GW) from fourteen thermal power plants, four nuclear power plants, seven hydroelectric power plants, three pumped storage power plants, and 94 combined heat and power systems. Approximately 23,000 km of main and interstate transmission lines of 35-800 kV voltage, and 996,000 km distribution lines of

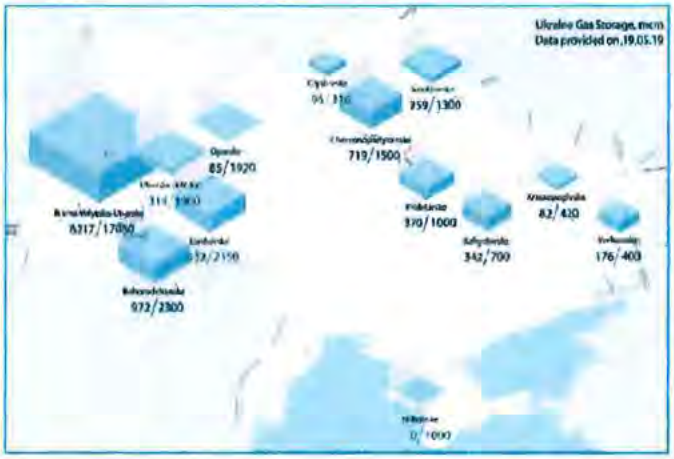
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0.4-150 kV voltage serve as the national transmission system with limited interconnection across regions.

The Plan's electric generation recommendations section outlines a series of measures to ensure that Ukraine's residential, industrial and commercial electricity users have a sufficient supply for the 2019-2020 heating season. This includes increasing coal influx, reducing electric power consumption, increasing imports and reducing exports of electricity, and opening congested transmission pathways by completing interconnection lines (e.g. high voltage lines (HVL) to shift energy from Rivne to the Kyiv substation). Preparedness measures for emergencies in heat and power engineering sector include:

Natural Gas



Ensuring Ukraine's replenishment of underground storage reservoirs by the start of the heating season on October 15, 2019 represents a core priority area for this planning effort. Ukraine will require 19-21 bcm of storage supplies to mitigate the impact of a prolonged disruption of transit supplies, 3 bcm more than average due to system compression requirements in a zero transit scenario. As of May 19, according to Naftogaz statistics, Ukraine held 10.56 bcm in storage. Naftogaz should maximize Ukraine's import capacity and storage injections as soon as possible but lacks funding to purchase gas. Natural gas prices may rise significantly in the fall 2019 if European consumers become concerned about a possible gas cutoff. Adequate volumes may also be unavailable since other European consumers may use the opportunity to fill their own storage facilities. At $140-180/mcm, Naftogaz will also need to borrow over $1 billion to make these purchases.

4. Coal

Ensuring access to coal and heavy fuel oil represents a key part of the Plan. Ukraine needs to increase coal production and imports, and to reduce electricity consumption and export if it is to have sufficient resources for the heating season. A conservative approach would be to prepare for a colder winter (-20°C) since several of the current influxes of coal are not certain to be maintained through the heating season. For the upcoming winter season, the Plan recommends securing the following amounts of coal to ensure an adequate supply of stocks exist to get through the heating season ending:

A-type coal *(assuming a baseline supply of 300 kTons/month)*:

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5. District Heating

District heating provides a measure to provide space heating and water heating to the majority of Ukrainian residences. The Plan envision a temperature trigger for district heating systems at 16°C accompanied by public service broadcasts (e.g. billboards and posters, TV commercials, radio, press and text messages for mobile phones, messages through electronic payment systems and heating utility bills) about the importance of reducing heating fuel use and urge avoiding the use of electric heaters as substitutes. A crisis triggers additional actions:



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6. Crisis Response

Stakeholders at the national, regional and local levels should prepare for emergency response scenarios in the event of a crisis. Scenarios where a major system accident becomes possible include when the Unified Energy Systems of Russia and Belarus are operated separately, or when there's a major shortage of generation capacity and the Unified Energy System (UES) of Ukraine is disconnected from the Unified Energy Systems of Russia and Belarus. On exceeding the maximum allowed power exchange, stability of the UES of Ukraine may be breached at connections with Russia and Belarus, and UES of Ukraine may be automatically separated by

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actuating devices counteracting asynchronous operation under generation capacity shortage.

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Major tasks for all-level operating and dispatch personnel in the event of a major system accident should be put into place supported by training and tabletop exercises.



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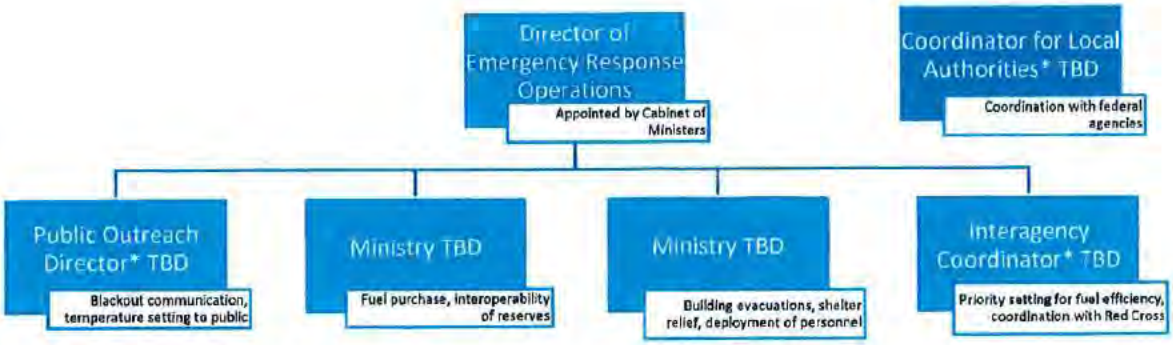
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STAKEHOLDERS

1. Overview

Stakeholder engagement and coordination represents a key to success. Streamlined decision making in the event of a crisis greatly reduces response times and danger of gridlock. Tabletop exercises among stakeholders to define roles and responsibilities for executing the Plan can help identify key gaps and lines of communication and help energy sector decision in the event of a crisis. Major tasks for all-level operating and dispatch personnel in the event of a major system accident should be put into place supported by training and tabletop exercises.



2. Ministry of Energy and Coal Industry

The Ministry of Energy and Coal Industry of Ukraine is the primary central government agency responsible for electricity sectors policies; the civil-nuclear complex, oil and gas sector; and coal industry. The ministry operates under the authority of the Cabinet of Ministers.

3. Ministry of Regional Development, Building and Housing

The Ministry for Regional Development, Building and Housing of Ukraine is responsible for housing infrastructure development and the formation and implementation of state policy in order to create a comfortable, high quality and safe living space for human development. The ministry advances energy planning and implementation efforts by increasing the competitiveness of regions (energy investment and reform) and promoting energy efficiency in the housing and utilities sector.

4. Ministry of Internal Affairs

The Ministry of Internal Affairs executes state policy for the protection of rights and liberties of citizens, investigates unlawful acts against the interest of society and state, fights crime, provides civil order, ensures civil security, and regulates traffic safety. The Ministry also protects energy infrastructure.

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5. Ministry of Infrastructure

The Ministry of Infrastructure formulates and implements state policy in the fields of air, road, rail, sea, river and urban electric transport, as well as on issues related to the use of subway systems, roads, transportation safety, merchant shipping and navigational/hydrographic support for vessels. The Ministry has programs for improving energy efficiency in the transportation and communications sectors.

6. Ministry of Defense

The Ministry of Defense is responsible for preventing hostility, structuring the military, and repelling all types of aggression (both in country and internationally). The Ministry has been integrating energy efficiency into its military programs across the country. Under the new Cyber Security Strategy, the Ministry will be responsible for implementing cybersecurity protection, as cyberattacks against energy infrastructure is common.

7. Ministry of Health

The Ministry of Health is the main healthcare body of the central government, responsible for managing the universal healthcare system and implementing state policy in the fields of medicine and healthcare. The Ministry has an interest in reducing illness linked to pollution and nuclear safety.

8. Ministry of Social Policy

The Ministry of Social Policy is responsible for regulating labor relations, family and children, immigration and trafficking, women's rights, children's rights, and humanitarian aid. The Ministry is also involved in an inter-agency working group for assessing and managing regulatory reforms for energy performance contracts and supporting activities.

9. National Electricity Regulatory Commission (NERC)

The NERC is involved in the formation and enforcement of a unified state policy towards electricity markets, natural gas, petroleum and petroleum products in the areas of heating, centralized water supply and drainage, treatment and disposal of household waste. The NERC is responsible for the licensing of economic activities in the fields of electricity, heating, centralized water supply and drainage in the oil and gas sector. The NERC sets the prices (tariffs) for electricity, for the supply of natural gas and gas (methane) of coal deposits, and other tariffs.

10. State Nuclear Regulatory Inspectorate (SNRI)

SNRI is the central government executive authority responsible for formation and implementation of state policy in the field of nuclear and radiation safety. The SNRI sets criteria, requirements and conditions of safety in nuclear energy use (normative documents, standards), issues permits and licenses to carry out activities in this area (licensing), and exercises the state supervision for observance of legislation, norms, rules and standards of nuclear and radiation safety (supervision).

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11. State Emergency Service (SES)

The SES implements state policies in the domain of civil protection, protection of population and territories from emergencies, prevention of emergencies, rectification of emergency consequences, rescue work, fire extinguishing, fire and technogenic safety, accident rescue service activities and hydrometeorologic activities. The former Ministry was created from the consequences of the Chernobyl catastrophe. The SES is a central body of executive power with activities directed and coordinated by the Cabinet of Ministers through the Ministry of Internal Affairs.

12. Naftogaz

Naftogaz is the national oil and gas company of Ukraine; it is a state-owned company. The company is involved with extraction, transportation, and refinement of natural gas and crude oil. Naftogaz operates under the Ministry of Energy and Coal Mining.

13. Ukrenergo

UKRENERGO is a national power company responsible for operational and technological control of the Integrated Power System (IPS) of Ukraine and electricity transmission via trunk power grids from generating plants to the distribution networks of the regional electricity suppliers (*oblenergos*). UKRENERGO is a state enterprise that covers the entire territory of Ukraine.

14. Energoatom

The National Nuclear Energy Generating Company of Ukraine (Energoatom) is a state enterprise operating all four active nuclear power stations in Ukraine. Energoatom operates under the Ministry of Fuel and Energy.

15. State Agency on Energy Efficiency and Energy Saving of Ukraine (SAEE)

The SAEE is a central executive authority governed and coordinated by the Cabinet of Ministers of Ukraine and is responsible for developing and implementing energy efficiency and renewable energy government policy.

16. State Highway Agency

Transport of fuel fossils (i.e. oil and gas) is under the Ministry on Energy and Fuel, while most of security responsibility matters are supervised by Ministry of Interior or other state agencies. The Ministry of Infrastructure only implements government policies related to the transport and communication sectors as well as security related to transport.

17. State Service of Special Communications and Information Protection

The State Service of Special Communications and Information Protection of Ukraine is responsible for protecting state information within data networks, safeguarding the critical

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information infrastructure, technical security, and intelligence services for the Administration.

18. Local self-government authorities

There are 24 regions in Ukraine and each one is divided into districts. The President of Ukraine and his Cabinet of Ministers appoint the heads of local governments. The city councils are tasked with disaster relief efforts and safety programs that protect population groups from natural disasters.

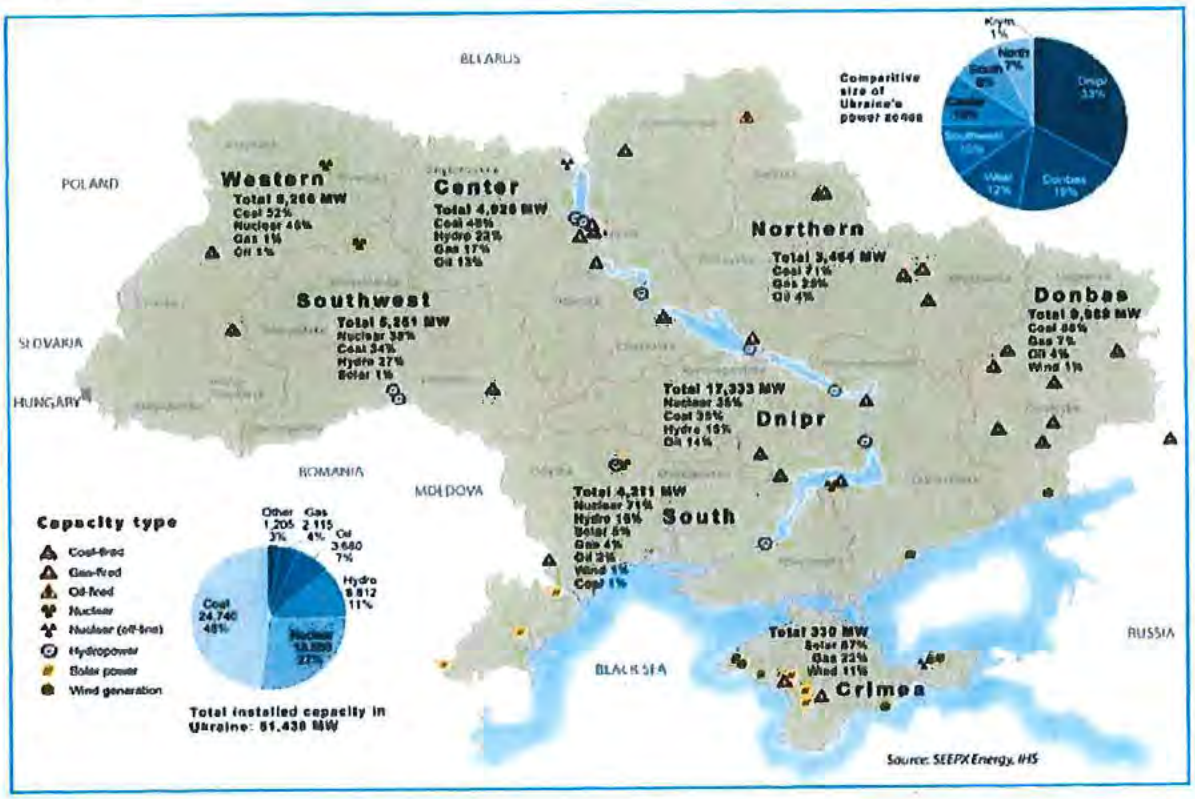
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POWER SECTOR

1. Overview

Ukraine's electric energy sector relies primarily on thermal power plants (TPP), combined heat and power plants (CHP), hydroelectric power plants (HPP), pumped storage power plants (PSP), and nuclear power plants (NPP). The system (excluding the Crimean energy system) generates approximately 55 gigawatt (GW) from fourteen thermal power plants, four nuclear power plants, seven hydroelectric power plants, three pumped storage power plants, and 94 combined heat and power systems. Approximately 23,000 km of main and interstate transmission lines of 35-800 kV voltage, and 996,000 km distribution lines of 0.4-150 kV voltage serve as the national transmission system with limited interconnection across regions.



2. Threats to the Power Sector

The following constitute the primary threats to steady-state operation of Ukraine's electricity sector:

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NATURAL GAS

1. Overview

This section outlines a series of measures to ensure that Ukraine's residential, industrial and commercial oil and natural gas users have sufficient supply for the 2019-2020 heating season. This includes measures to minimize threats to the oil and gas sector, maximizing domestic natural gas production, and expanding the natural gas reverse flow capacity from the European Union (EU).



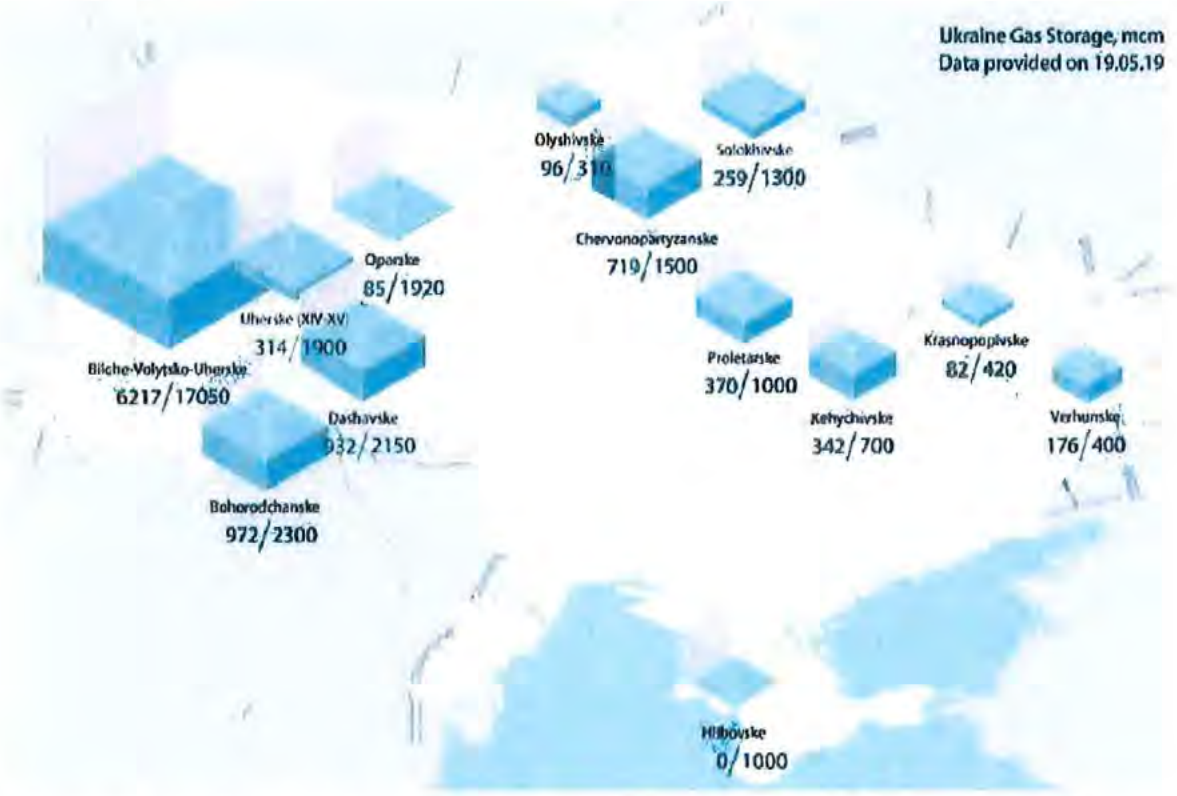
2. Zero-Transit Scenario

Ukraine is actively preparing for the possibility of a cut-off of Russian natural gas transit to Europe and Turkey via the Ukrainian Gas Transit System (GTS) this winter. Since 2014, Gazprom has used Ukraine's GTS to ship between 60-90 billion cubic meters of gas per year (bcma) to Europe and Turkey (equivalent to 12-18 percent of European Union gas demand). Western European energy markets may be able to withstand a prolonged cutoff with purchases of liquefied natural gas (LNG). This is not the case for a number of relatively unintegrated countries in Central and Southeastern Europe (notably Bulgaria and Moldova) dependent on Russia as a dominant—and many times sole—supplier. The most vulnerable country could be Ukraine itself. If Ukraine has not preemptively imported and stored adequate volumes of gas and Gazprom cuts off gas shipments to Europe via Ukraine, the country could face a serious energy crises. Key points include:

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- A prolonged disruption of Russian natural gas supplies will put stress on European gas markets and potentially limit Ukraine's ability to contract for West-East supplies.
- Adding additional reverse flow capacity from existing pipeline infrastructure with neighboring countries is technically feasible by reconfiguring compression stations.
- Creative options such as virtual reverse flows and contracting with other countries to book capacity within Ukraine's large gas storage system present more ways to build resilience.
- A coordinated push to find financing opportunities from international financial institutions or the Eurobond market to allow Naftogaz or independent traders to purchase gas supplies to build storage will be key.

3. Storage



Ensuring Ukraine's replenishment of underground storage reservoirs by the start of the heating season on October 15, 2019 represents a core priority area for this planning effort. Ukraine will require 19-21 bcm of storage supplies to mitigate the impact of a prolonged disruption of transit supplies, 3 bcm more than average due to system compression requirements in a zero transit scenario. As of May 19, according to Naftogaz statistics, Ukraine held 10.56 bcm in storage. Naftogaz wants to maximize Ukraine's import capacity and storage injections as soon as possible but lacks funding to purchase gas. Natural gas prices may rise significantly in the fall 2019 if European consumers become concerned about a possible gas cutoff. Adequate volumes may also be unavailable since other European consumers may use the opportunity to fill their own storage

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facilities. At $140-180/mcm, Naftogaz will also need to borrow over $1 billion to make these purchases.

As Ukraine is currently using only about a third of its reverse flow capacity from the EU, the biggest obstacle in increasing natural gas storage injection levels to at least 60 MMcm/d is financial, not technical. Inadequate finances are also an obstacle to the option of Ukraine restoring gas supplies from Russia's Gazprom. Naftogaz needs to secure adequate credit in order to increase natural gas purchases and is encouraged to pursue all avenues to do so.

The Government of Ukraine should consider direct financing from the state budget to cover the shortfall in natural gas storage. Furthermore, Naftogaz needs to call for the reinstatement of natural gas curtailment measures. Curtailing domestic natural gas consumption will free up additional volumes of domestic production to be injected into underground storage.

4. Opening Greater Reverse Flow Capacity

Ukraine currently consumes approximately 30 bcm of natural gas per year. Domestic production meets two-thirds of this demand. A reverse flow-pipeline from Slovakia that returns the Russian gas to Ukraine once it crosses into the European Union supplies the remaining 10 bcm. Ukraine, the most energy intensive economy in Europe, uses most of the gas for household consumption and communal heating systems, as well as heavy industry. State-owned natural gas company Naftogaz is currently planning for a zero-transit scenario following the expiration of their long-term transit contract with Russia's Gazprom on December 31, 2019. This includes the need to not only expand routes from neighboring countries but also build sufficient storage supplies to maintain enough compression within the system for West-East flows. Ukraine's options include:

- **Slovakia:** Slovakia's system is the most capable of delivering additional supplies to Ukraine. Ukraine transit supplies enter the EU at the Veľké Kapušany compressor station in Eastern Slovakia. The station's total power of nearly 300 MW—the largest compressor station in Europe—allows technical entry flow of approximately 70 bcm per year. Most of these supplies transit onward to the Central European Gas Hub in Baumgarten. Of these transit supplies, an average of 8 bcm per year reverse flow back into Ukraine through the Bundice border point via the Vojany-Uzhorod pipeline. Absent East-West transit supplies, Slovakia's capacity would technically be free for sizeable flows of European gas to Ukraine. However, many EU Member States may themselves struggle to meet gas demand in the event of a prolonged cut-off. Moreover, Eustream believes that reversing the four lines at Veľké Kapušany would violate the agreement under which Gazprom has booked most of the capacity of the lines entering from Ukraine until 2028.

- **Poland:** Poland's current capacity to deliver reverse flow natural gas supplies to Ukraine stands at 1.5 bcma via the Drozdowice interconnector on the Poland-Ukraine border; the first reversed flows began in April 2014 in the wake of the Ukraine-Russia conflict under a 2012 deal with German utility RWE. The gas transits through Poland's Gaz-System with deliveries based on European wholesale price levels. Increasing the reverse flow capacity to the interconnector's 5 bcm capacity would probably require adding additional reverse compression. Technically, this would likely entail moving a mobile compression turbine from another station. Other discussions such as the Hermanowice interconnector, expanding

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the Świnoujście LNG terminal and Baltic Pipe present future, medium-term opportunities to expand north-south flows.

- **Hungary:** Three interconnector pipelines cross the Ukraine-Hungary border with one built with a reverse flow mode. The two others are sufficient to provide Hungary's full imports from Russia for domestic consumption, storage, and transit. This provides the potential to reverse flow 7.1 bcm to Ukraine. In the event of a supply shutoff from Russia to Ukraine, Hungary would utilize stored gas and try to find new supplies elsewhere, some via LNG. This will have impacts on Hungary's gas system configuration—as well as available supply—to enter into Ukraine.

- **Romania:** The Trans-Balkan pipeline through Ukraine transports about 20 bcm of natural gas through Romania to Bulgaria, Greece, Macedonia, and Turkey. When and if those shipments are halted, Ukrtransgaz hopes to equip Transit 1 pipeline—one of the three connections that form the Trans-Balkan pipeline—with physical reverse-flow capabilities. The facility could allow up to 5 bcm in additional supplies to be shipped to Ukraine. Romania's current upstream natural gas production could make this an attractive medium-term option if Black Sea gas development goes forward..

- **Virtual reverse flow:** European customers sometimes trade gas through an accounting mechanism known as "virtual reverse flow" whereby less physical gas is delivered downstream and the upstream recipient pays the downstream customer. Virtual reserve flow would permit Naftogaz to decrease physical gas shipments to Slovakia or Poland to divert the gas into Ukrainian gas storage or sell into the mid-stream market. This would not require physical reverse flow capability from the transmission network.

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Scenario No. 1: With gas supplies from Gazprom for the period of October 2019 - March 2020 (maximum offtake)

	October 2019		November 2019		December 2019		IV quarter 2019		January 2020		February 2020		March 2020		I quarter 2020		Total	
	total	a day	total	a day	total	a day	total	a day	total	a day	Total	a day	total	a day	total	a day	total	a day
Gas reserves	3187.8	102.8	4726.1	157.5	5796.9	187.0	13710.8	149.0	5833.5	188.2	4842.0	172.9	3805.0	122.7	14480.5	160.9	28191.3	154.9
Import	892.2	28.8	946.3	31.5	1517.0	48.9	3355.5	36.5	1991.8	64.3	2125.5	75.9	1653.7	53.3	5771.0	64.1	9126.5	50.1
including Gazprom PJSC	0.0	0.0	0.0	0.0	518.2	16.7	518.2	5.6	924.6	29.8	927.9	33.1	304.4	9.8	2156.9	24.0	2675.1	14.7
from Europe	892.2	28.8	946.3	31.5	998.8	32.2	2837.3	30.8	1067.3	34.4	1197.6	42.8	1349.3	43.5	3614.2	40.2	6451.5	35.4
Domestic production	1679.9	54.2	1650.3	55.0	1726.4	55.7	5056.6	55.0	1692.4	54.6	1532.3	54.7	1689.3	54.5	4914.0	54.6	9970.6	54.8
Offtake from	615.7	19.9	2129.5	71.0	2553.5	82.4	5298.7	57.6	2149.3	69.3	1184.2	42.3	462.0	14.9	3795.5	42.2	9094.2	50.0
UGSF* Injection into UGSF	112.9	3.6	0.0	0.0	0.0	0.0	112.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.9	0.6
Ukraine, total	3080.0	99.4	4717.8	157.3	5794.4	186.9	13592.2	147.7	5779.1	186.4	4773.8	170.5	3821.5	123.3	14374.4	159.7	27966.6	153.7
including																		
Consumers	2904.2	93.7	4539.8	151.3	5570.3	179.7	13014.3	141.5	5537.3	178.6	4556.8	162.7	3661.2	118.1	13755.3	152.8	26769.6	147.1
including Ministry of	513.6	16.6	560.6	18.7	655.2	21.1	1729.4	18.8	678.0	21.9	591.2	21.1	609.1	19.6	1878.3	20.9	3607.7	19.8
Industry - metallurgy	254.2	8.2	278.6	9.3	319.9	10.3	852.7	9.3	321.6	10.4	269.5	9.6	261.2	8.4	852.3	9.5	1705.0	9.4
- chemistry	259.4	8.4	282.0	9.4	335.3	10.8	876.7	9.5	356.5	11.5	321.7	11.5	348.0	11.2	1026.2	11.4	1902.9	10.5
including RSA funds	1601.8	51.7	3024.3	100.8	3922.2	126.5	8548.3	92.9	3965.2	127.9	3339.1	119.3	2691.5	86.8	9995.8	111.1	18544.1	101.9
- population	1131.6	36.5	1806.0	60.2	2299.5	74.2	5237.1	56.9	2385.3	76.9	1975.5	70.6	1526.4	49.2	5887.2	65.4	11124.3	61.1
- heat energy	389.6	12.6	1088.5	36.3	1426.3	46.0	2904.4	31.6	1437.8	46.4	1222.5	43.7	949.2	30.6	3609.5	40.1	6513.9	35.8
OTE	175.8	5.7	178.0	5.9	224.1	7.2	577.9	6.3	241.8	7.8	217.0	7.8	160.3	5.2	619.1	6.9	1197.0	6.6

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Scenario No 2: Without gas supply from Gazprom
Calculated Ukrainian balance for the period of October 2019 - March 2020 (maximum offtake)

	October 2019		November 2019		December 2019		IV quarter 2019		January 2020		February 2020		March 2020		I quarter 2020		Total	
	total	a day	total	a day	total	a day	total	a day	total	a day	Total	a day	total	a day	total	a day	total	a day
Gas reserves	3229,9	104,2	4717,8	157,3	5794,4	186,9	13742,1	149,4	5779,1	186,4	4773,8	170,5	3821,5	123,3	14374,4	159,7	28116,5	154,5
including																		
import, including	1050,0	33,9	1791,5	59,7	882,0	28,5	3723,5	40,5	153,7	5,0	268,5	9,6	0,0	0,0	422,2	4,7	4145,7	22,8
"Gazprom" PJSC	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
from Europe	1050,0	33,9	1791,5	59,7	882,0	28,5	3723,5	40,5	153,7	5,0	268,5	9,6	0,0	0,0	422,2	4,7	4145,7	22,8
Domestic production	1679,9	54,2	1650,3	55,0	1726,4	55,7	5056,6	55,0	1692,4	54,6	1582,3	54,7	1689,3	54,5	4914,0	54,6	9970,6	54,8
Offtake from UGSF	500,0	16,1	1276,0	42,5	3186,0	102,8	4962,0	53,9	3933,0	126,9	2973,0	106,2	2132,2	68,8	9038,2	100,4	14000,2	76,9
Injection into UGSF	149,9	4,8	0,0	0,0	0,0	0,0	149,9	1,6	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	149,9	0,8
Ukraine, total	3080,0	99,4	4717,8	157,3	5794,4	186,9	13592,2	147,7	5779,1	186,4	4773,8	170,5	3821,5	123,3	14374,4	159,7	27966,6	153,7
including																		
Consumers	2904,2	93,7	4559,8	151,3	5570,3	179,7	13014,3	141,5	5537,3	178,6	4556,8	162,7	3661,2	118,1	13755,3	152,8	26769,6	147,1
including RSA funds	1601,8	51,7	3024,3	100,8	3922,2	126,5	8548,3	92,9	3965,2	127,9	3339,1	119,3	2691,5	86,8	9995,8	111,1	18544,1	101,9
OTE	175,8	5,7	178,0	5,9	224,1	7,2	577,9	6,3	241,8	7,8	217,0	7,8	160,3	5,2	619,1	6,9	1197,0	6,6

* In "consumers" category the volumes of gas consumption in ATO zone has not been included. It amounts to around 450 mln. c.m. per month (15-20 mln.c.m. per day) ** Consumption is calculation based on the assumption of mildly cold winter.
*** Values for gas offtake from UGSF were accepted on the maximum process level, including remains during offtake period. It amounts to 19 bln. c.m., including 4.8 bln.c.m. for process stock reserve

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Coal

1. Overview

While nuclear power plants are used for baseload power in Ukraine, coal-fired power plants operate in intermediate and peaking modes. Therefore, coal-fired units are most essential during the high power-consumption periods of winter and summer. Having adequate fuel supplies on hand during these seasons (especially winter) is of crucial importance in terms of maintaining reliable electricity supply. The following section presents recommendations that address these factors.

2. Coal Market

Coal from non-government controlled Donbas, which previously provided all anthracite and a significant part of gas coal (G-coal), is no longer available. Ukraine is converting some plants to burn G-coal rather than anthracite, significantly reducing Ukraine's reliance on anthracite. More than 80 percent of coal is produced by private company DTEK, which operates the most productive mines. The remaining state-owned mines have been united in the new National Coal Company. The main buyers of thermal coal are the private company DTEK and state-owned Centrenergo. Because of the method NKREKP uses to regulate electricity tariffs, coal prices in Ukraine are the highest in Europe. Ukraine is highly dependent on coal resources and it needs a more transparent system for maintaining and pricing supplies.

3. Reliance on Anthracite

Russian anthracite appears to be the Achilles heel of Ukraine's coal supply. Although some coal-fired power plant units have already converted from burning anthracite to burning bituminous coal and more are planned, a number of power plant units still burn anthracite. Ukraine is forced to import roughly one fourth of the coal it consumes, approximately 80 percent of which is anthracite imported from Russia. If that supply is disrupted during severe winter cold or summer heat or when one of Ukraine's nuclear power plants goes offline, then Ukraine's electric supply could be negatively affected. The world markets for coal are dominated by bituminous and subbituminous coals, so the reliance on Russian anthracite necessarily constrains Ukraine's alternative fuel supply options.

4. Ensuring Sufficient Supplies

Ensuring access to coal and heavy fuel oil represents a key part of the Plan. Ukraine needs to increase production and imports, and to reduce electricity consumption and export if it is to have sufficient resources for the heating season. A conservative approach would be to prepare for a colder winter (-20°C) since several of the current influxes of coal are not certain to be maintained through the heating season. For the upcoming winter season, the Plan recommends securing the following amounts of coal to ensure an adequate supply of stocks exist to get through the heating season ending:

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5. **Railway and port infrastructure for Coal transloading and transportation to National Thermal Power Plants**

Planning Factor	Capacity
Thermal Power Plants (TPP) and Coal Consumption	
Freight rail cars (of all types)	
Transportation of coal by rail	
Transportation of coal by sea through the Odessa region sea ports (includes Illichivsk, Pivdenny, TIC)	
Transportation of coal through all ports	

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1. Overview

District heating plays an important role in Ukraine serving almost 60 percent of the population with over 25 million customers (Eurostat). Municipalities and communal users account for over 40 percent of heat energy usage. Natural gas serves as the dominant fuel. The Plan envision a temperature trigger for district heating systems at 16°C accompanied by public service broadcasts (e.g. billboards and posters, TV commercials, radio, press and text messages for mobile phones, messages through electronic payment systems and heating utility bills) about the importance of reducing heating fuel use and urge avoiding the use of electric heaters as substitutes.

2. Threats to Combined Heat and Power (CHP) System

For household heating the main threats to ensuring the established operating conditions for heat sources (boiler houses and CHP), which supply thermal energy to public institutions and to communities in Ukraine, and the reliable and safe operation of the heating energy sector production, transmission and delivery entities (heating and hot water supply) are:

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- Fuel shortfall (decrease of operational fuel stockpiles at boiler houses and CHP below levels **Deleted**);
- Insufficient gas delivery volumes or gas pressure decrease in the main and distribution gas networks to the heating sector enterprises;
- Complete cessation or emergency cut-off of the gas supply to the heating sector enterprises;
- Cessation of power supply and water supply to the heating energy sector enterprises as a consequence of an emergency in the electric energy sector.

3. Response Measures to Remove Threats to Communal Heating Enterprises

The heat equipment of communal heating enterprises, according to the applicable Ukrainian legislation, falls into high-risk facilities category, and, consequently, has emergency response plans for all facilities (broken down by the categories of a boiler house, heating network area and central heat distribution station) approved according to a procedure established by legislation. There is an emergency stock of necessary materials and spare parts.

Emergency response exercises help personnel understand procedures and respond in a prompt manner during crisis events. In every specific situation, preparedness allows for a calculation analysis to identify the stability of heating networks and of building heating systems. This calculation then triggers a sequence of actions to prevent negative effects of a potential blackout.

4. Preparedness Measures for Emergencies in the Heat and Power Engineering Sector

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The following measures should be taken in order to prevent possible threats to the heat and power energy sector:

- Ensure fulfillment of proposals regarding purchase of fuel (coal and mazut) and establish policies to implement a more transparent and cost reflective tariff setting process.
- A check of actual conditions and operability using backup fuel (in the case of natural gas as primary fuel and heavy oil as reserve fuel), etc.
- Ensure heavy oil purchase in the volumes required for a sustainable fall-winter period.
- Ensure the availability of backup sources of power and water supply.
- The implementation of energy conservation measures for all types of properties for the fall-winter period.
- Consideration of the possibility of shifting vacation periods at all education institutions and prolongation of vacations. Development of a mechanism for implementation of new terms and duration, if necessary.
- Development of prioritization lists of consumers' groups in the event of the possible shutoff of the heating system.
- The development of messaging by the Ministry of Regional Development and Construction to limit consumption of heating and distribution using billboards and posters; TV commercials, radio, press and text messages for mobile phones; electronic payment systems, heating utility bills; and letters by the Ministry of Regional Development and Construction to industrial enterprises indicating the reasons for limitations in heating consumption and recommending measures to be taken;
- Extension of the term of hot water supply shutoff for the population and public institutions.

5. Fuel switching to Mazut

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The estimated consumption of natural gas at TPPs and CHPs during fall-winter 2019-20 amounts **Deleted**. Taking into account the technical and process capacity on TPPs of generating companies and CHPs (current mazut equipment stock is in satisfactory technical condition or in out of use state and can start its operation after routine maintenance, proper condition of access roads or mazut pipelines) the following are suggested:

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Transportation of heavy oil by rail	Deleted	

6. Planning

A prolonged cut-off in natural gas supplies during the winter heating season carries the potential to trigger a crisis for household heating, particularly in the event of below-average temperatures. Preparedness entails establishing a system of public outreach to ensure reduction in consumption by both households and industry. The following actions should be taken for district heating systems in the event of a cut-off in natural gas supplies:



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RESPONSE

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EMERGENCY RESPONSE

1. Overview

This section details Ukraine's emergency response procedure in the event of a major system accident. A major system accident is an accident leading to power loss at a greater part of Ukraine's territory and loss of own needs generation at combined heat power and nuclear power plants followed Deleted A major system accident may be preceded with:

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- Gradual increase in generation capacity shortage;
- Sudden loss of major generation capacity;
- Emergency shut-down of several system-forming transmission lines of the main grid.

Scenarios where a major system accident become possible include conditions where the Unified Energy Systems of Russia and Belarus are operated separately, or when there is a major shortage of generation capacity and the Unified Energy System of Ukraine is disconnected from the Unified Energy Systems of Russia and Belarus.

2. Major Tasks for All-level Operating and Dispatch Personnel

Major tasks for all-level operating and dispatch personnel in the event of a major system accident include:

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3. Prevention of accident evolving into a special system wide collapse

Personnel should undertake the following procedures in the case of separate operation of the UES of Ukraine from the Unified Energy Systems of Russia and Belarus consistent with

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3. Recovery after a special (extreme) system wide collapse and restoration of a greater part of the Unified Energy System of Ukraine «from 0».

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Documents 16, 17, and 18 (56 pages) sent to CIA and Department of State for Consult

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