

**BEFORE THE
PUBLIC SERVICE COMMISSION
OF THE DISTRICT OF COLUMBIA**

**IN THE MATTER OF THE MERGER)
OF ALTAGAS LTD. AND) Formal Case No.: 1142
WGL HOLDINGS, INC.)**

**SETTLEMENT TESTIMONY
OF
PAUL J. HIBBARD**

Exhibit JA (2Q)

**On Behalf of
The Applicants**

May 25, 2018

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1 **I. INTRODUCTION AND SUMMARY OF POSITIONS**

2 **A. Introduction and Overview**

3 **Q. PLEASE STATE YOUR FULL NAME, BUSINESS ADDRESS AND**
4 **OCCUPATION.**

5 A. My name is Paul J. Hibbard. I am a Principal at Analysis Group,
6 Inc. (“AGI”), an economic, finance and strategy consulting firm
7 headquartered in Boston, Massachusetts, where I work on energy and
8 environmental economic and policy consulting. My business address is 111
9 Huntington Avenue, 14th Floor, Boston, Massachusetts, 02199.

10 **Q. HAVE YOU PREVIOUSLY SUBMITTED TESTIMONY BEFORE**
11 **THE PUBLIC SERVICE COMMISSION OF THE DISTRICT OF**
12 **COLUMBIA (“COMMISSION”) IN THIS PROCEEDING?**

13 A. Yes. I submitted rebuttal testimony on October 27, 2017, which
14 included my background and experience. I also submitted post-settlement
15 testimony in the related merger proceeding before the Maryland Public
16 Service Commission on January 5, 2018.¹

17 **Q. WHAT IS THE PURPOSE OF YOUR POST-SETTLEMENT**
18 **TESTIMONY?**

19 A. I am testifying on behalf of AltaGas, Ltd. and WGL Holdings, Inc.
20 (“Applicants”) in Formal Case No. 1142, In the Matter of the Merger of

¹ Post-Settlement Testimony of Paul J. Hibbard, Maryland Public Service Commission Case No. 9449, January 5, 2018.

Exhibit JA (2Q)
Settlement Testimony of Paul J. Hibbard

1 AltaGas, Ltd. and WGL Holdings, Inc., to provide the Commission with a
2 description of and support for the environmental benefits of the additional
3 commitments described in the Settlement Agreement that has been agreed
4 to by the parties in Formal Case No. 1142.²

5 **Q. DID YOU PREPARE OR DIRECT THE PREPARATION OF THIS**
6 **TESTIMONY AND ACCOMPANYING EXHIBITS?**

7 A. Yes.

8 **B. Summary of My Post-Settlement Testimony and Conclusions**

9 **Q. PLEASE SUMMARIZE YOUR CONCLUSIONS.**

10 A. I have three primary conclusions regarding the parties' settlement
11 agreement:

- 12 ▪ The settlement commitment to provide \$4.2 million for energy
13 efficiency and energy conservation initiatives, with a focus on
14 low and limited-income residents, will reduce CO₂ emissions.³
15 Specifically, over the lifetime of the installed measures, I
16 estimate that CO₂ emissions will be reduced by 408.5 million
17 pounds ("lbs").
- 18 ▪ The settlement commitment to increase the size of the Tier 1

² Unanimous Agreement of Stipulation and Full Settlement, Public Service Commission of the District of Columbia Formal Case No. 1142, May 8, 2018 (hereafter "Settlement Agreement").

³ Settlement Agreement, ¶ 3.

1 renewable or electric grid storage resource developed in the
2 District to 10 MW will also reduce CO₂ emissions.⁴
3 Specifically, I estimate that CO₂ emissions will be reduced by
4 between 12.6 and 23.4 million lbs *each year* for the lifetime of
5 the renewable or storage project.

6 ▪ The settlement commitment to reduce the number of PHMSA-
7 reported Grade 2 leaks each year between 2019 and 2023 will
8 reduce methane emissions in the District.⁵

9 **C. Organization of My Post-Settlement Testimony**

10 **Q. HOW IS YOUR POST-SETTLEMENT TESTIMONY ORGANIZED?**

11 A. In Section II I summarize the settlement agreement terms that I
12 believe are most relevant to the environmental and climate policy goals of
13 the Commission and the District. In Section III I quantify, to the extent I
14 am able, the environmental benefits of several of these settlement
15 commitments. My conclusions are summarized in Section IV.

16 **II. SUMMARY OF SETTLEMENT AGREEMENT TERMS**
17 **PROVIDING QUANTIFIABLE BENEFITS RELATED TO THE**
18 **ENVIRONMENT**

19
20 **Q. WHAT IS YOUR GENERAL POSITION ON WHETHER THE**
21 **SETTLEMENT AGREEMENT REACHED BY THE PARTIES**

⁴ Settlement Agreement, ¶ 5.

⁵ Settlement Agreement, ¶ 73.

1 **WILL FURTHER THE ENVIRONMENTAL AND CLIMATE**
2 **GOALS OF THE COMMISSION AND DISTRICT AND PROVIDE**
3 **ENVIRONMENTAL BENEFITS?**

4 A. The settlement agreement includes clear and meaningful
5 commitments to address environmental and climate change risks associated
6 with energy production and use, and charts a path by which AltaGas will
7 work productively and cooperatively with the District, the Commission, and
8 stakeholders to help meet the difficult challenges the District and the U.S.
9 will face in the coming decades in the transition to a lower-carbon economy.

10 **Q. COULD YOU PLEASE SUMMARIZE THE SPECIFIC**
11 **SETTLEMENT AGREEMENT TERMS THAT YOU FIND ARE**
12 **RELATED TO THESE ENVIRONMENTAL COMMITMENTS?**

13 A. Yes. There are three specific commitments in the settlement
14 agreement that lay out incremental environmental benefits:

- 15 ▪ Commitment 3 provides for \$4.2 million in energy efficiency and
16 energy conservation funding, with a focus on low and limited-
17 income residents;
- 18 ▪ Commitment 5 increases the commitment to develop a Tier 1
19 renewable or energy storage project in the District to 10 MW; and
- 20 ▪ Commitment 73 provides a commitment to reduce PHMSA-
21 reported Grade 2 leaks to levels below the 2017 annual level, and
22 imposes non-compliance payment penalties in the event the
23 Company fails to achieve these reductions.

III. DESCRIPTION AND CALCULATION OF ENVIRONMENTAL BENEFITS

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Q. WOULD YOU PLEASE DESCRIBE THE LIKELY ENVIRONMENTAL IMPACT DUE TO THE COMMITMENT TO FUND ENERGY EFFICIENCY AND ENERGY CONSERVATION PROGRAMS IN COMMITMENT 3?

A. Yes. A wealth of information collected by energy utilities demonstrates the extent of energy and demand reductions associated with investments in energy efficiency programs and measures. Energy savings, in turn, allow for reduced energy generation from fossil fuel units and, therefore, reduced emissions of CO₂ (as well as reduced impacts from emissions of other air pollutants and from the generation of liquid and solid waste) to meet end-user demand. Thus, the \$4.2 million in funds provided will reduce CO₂ emissions. I estimate that lifetime CO₂ emissions will fall by 408.5 million lbs as a result of the commitment in Commitment 3.

Q. WOULD YOU PLEASE DESCRIBE IN MORE DETAIL THE METHODS, DATA, AND ANY UNDERLYING ASSUMPTIONS YOU RELIED UPON TO QUANTIFY THE ENVIRONMENTAL IMPACTS OF THE ENERGY EFFICIENCY AND ENERGY CONSERVATION FUNDING?

A. Yes. To estimate the CO₂ reductions due to the funds provided for energy efficiency and energy conservation programs, I proceed in two steps:

Exhibit JA (2Q)
Settlement Testimony of Paul J. Hibbard

1 First, I estimate the amount of energy saved due to the \$4.2 million
2 going towards funding these programs. In order to develop this estimate, I
3 rely on the compilation of data collected by the Northeast Energy Efficiency
4 Partnership (“NEEP”). Specifically, I rely on the energy efficiency program
5 measurement and verification data and analysis that is completed by the
6 District's utilities, reviewed by the Department of Energy, and aggregated
7 by NEEP. NEEP’s data summarizes and organizes specific measured
8 results of energy efficiency investments made within the state.
9 Understanding that the commitment funding is focused on low-income
10 households in particular, I identify NEEP data that allows me to calculate
11 the District’s lifetime cost of energy saved for these low-income programs
12 in 2016 as \$0.009 per kWh-saved.⁶ Dividing the total monies spent on
13 energy efficiency programs by this lifetime cost of energy yields lifetime
14 energy savings.

⁶ See <https://reed.neep.org>. NEEP provides lifetime energy savings as well as spending data for energy efficiency programs in the District. I calculate a lifetime cost of saved energy for low-income projects in the District by dividing the total lifetime energy savings for low income programs by the total cost of these programs in 2016. (see <http://reed.neep.org/Glossary.aspx> for further definitions). As described in NEEP documents, District utilities report energy efficiency data to the District of Columbia Sustainable Energy Utility (“DC SEU”), the agency in charge of all energy efficiency and renewable energy services. The DC SEU releases quarterly reports on energy efficiency. The Department of Energy retains a third party contractor to review the SEU’s performance (see <https://reed.neep.org/StateDocs-DC.aspx> for more information). NEEP uses the data from the DC SEU in its reports.

Exhibit JA (2Q)
Settlement Testimony of Paul J. Hibbard

1 Second, I estimate emissions reductions associated with the energy
2 savings as the product of the energy savings and an emission rate for the
3 portfolio of electric generation plants in the PJM region. I estimate the
4 emission rate using the Gas Technology Institute’s Source Energy and
5 Emissions Analysis Tool (“SEEAT”)⁷ and the corresponding marginal
6 emissions profile of the PJM region.⁸ More specifically, the emission
7 impact depends on the *effective* emission rate per unit of electricity used.
8 This in turn depends on (1) the fuels and conversion efficiencies – and thus
9 the associated emission rates per MWh generated – of generating units
10 operating on the margin at the time of use, and (2) the bulk power system
11 and distribution system losses in transmitting generated electricity to the
12 point of end use. The SEEAT model approximates
13 transmission/distribution losses based on location (in this case, a residential
14 household in the District), and allows the user to select the appropriate mix

⁷ SEEAT is a publicly available model developed by the Gas Technology Institute (“GTI”) available at <http://www.cmictools.com/Default.aspx>. The model relies on government data and other publicly available data sources to calculate point-of-use energy consumption and associated greenhouse gas emissions for various heating systems, cooling systems, and household appliances. Most inputs to the SEEAT model, including geographic area, electricity generation mix, composite emissions factors, and source energy factors, can be user-specified.

⁸ I base this analysis on the marginal mix of plants over the full year under the understanding that energy efficiency and energy conservation programs would be in effect throughout the year. See Exhibit JA (2Q)-1.

1 of generating resources to approximate emission rates at the point of
2 generation.

3 For this purpose, I use data from PJM to derive the average marginal
4 fuel of the generation portfolio within the PJM region, in which the District
5 resides. I summarize this electric generation portfolio in Exhibit JA (2Q)-
6 1. I assume the average mix of resources operating on the margin since this
7 represents the average emission rate that would be avoided at the time of
8 use by avoiding or reducing electricity use.⁹ The product of the emission
9 rates and energy savings yields CO₂ reductions. Exhibit JA (2Q)-2 provides
10 these results.

11 **Q. WOULD YOU PLEASE DESCRIBE THE LIKELY**
12 **ENVIRONMENTAL IMPACT OF INSTALLING 10 MW OF TIER 1**
13 **RENEWABLE GENERATION OR ENERGY STORAGE?**

14 A. The settlement agreement requires the Applicants to invest in 10
15 MW of electricity storage or “Tier One” renewable resources. While any
16 or all of such energy technologies can generate emission reductions and
17 other environmental benefits, the ability to estimate such benefits is

⁹ Over time the actual emission rate of generation at the time of use may be higher or lower depending on changes in the mix of resources operating in the region, and reduced demand associated with the installment of energy efficiency and conservation measures. However, for the purpose of estimating emission reduction benefits, I consider the recent average of marginal PJM emission rates to be a reasonable proxy given the scope and scale of use anticipated due to the settlement agreement.

Exhibit JA (2Q)
Settlement Testimony of Paul J. Hibbard

1 complicated by not knowing how the investments will be made, and by the
2 fact it is difficult to forecast with specificity the benefits that may accrue
3 due to storage technologies. Thus, my quantification of benefits necessarily
4 relies upon a simplified approximation using renewable resource
5 investment as a proxy, discussed below.

6 Installing low- or zero-carbon renewable generation – whether grid-
7 connected or distributed – will reduce energy generated from higher-carbon
8 resources on the system, and thereby reduce CO₂ emissions. But the
9 ultimate impact of investments in storage technologies are more complex
10 and uncertain. With storage, there are multiple modes of benefit – for
11 example, immediate reductions in CO₂ emissions from storage could be
12 realized if energy is stored at night when the marginal emission rate (of
13 production) is low, and discharged during peak daytime hours when the
14 marginal emission rate is higher. Longer-term emission reductions could
15 flow if investments in storage capacity lead to the reliable integration of a
16 greater quantity of variable renewable resources than otherwise would be
17 installed. Conversely, while this may be a less likely outcome, storage
18 could be used at times in ways that could lead to a net increase in emissions

Exhibit JA (2Q)
Settlement Testimony of Paul J. Hibbard

1 (e.g., if energy is released when marginal emission rates are lower than at
2 the time the energy is stored).¹⁰

3 Since the settlement agreement does not mandate the type or mix of
4 storage/renewable technology investment, it is difficult to forecast the
5 nature and quantity of potential emission reduction benefit of this
6 commitment. However, I expect that it is more likely than not that this
7 merger commitment will lead to investment in advanced energy
8 technologies that will, over time, improve the emission profile of PJM
9 operations, and produce emission reduction benefits. While the precise
10 quantity of emission reductions is not possible to quantify at this time, I
11 have made certain assumptions to conservatively approximate the potential
12 magnitude of public health and environmental benefit associated with this
13 commitment.

14 Specifically, I calculate the per MW impact of the commitment
15 assuming that the generation portfolio to be constructed will be an
16 investment in renewable resources, and that those resources will be some

¹⁰ Storage is often viewed as an enabling resource - one that can directly support the reliability, capacity value, or cost reduction benefits of variable renewable resources. (U.S. Department of Energy, “Energy Storage,” available at <https://energy.gov/oe/activities/technology-development/energy-storage>, accessed May 23, 2018.) However, to the extent storage is used exclusively to arbitrage energy prices in wholesale markets, the financial viability of this option rests with being able to use energy generated in low-price hours to support production in higher-priced hours, when the emission rates of marginal generation are often – if not mostly – higher than during lower-priced hours. (U.S. Environmental Protection Agency, “Electricity Storage,” available at <https://www.epa.gov/energy/electricity-storage>, accessed May 23, 2018.)

Exhibit JA (2Q)
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1 mix of wind and solar. While wind and solar emit zero emissions, they also
2 have lower capacity factors compared to conventional generation
3 technologies. Consequently, I estimate the potential magnitude of emission
4 reduction benefits of every MW of wind and solar assuming a mix operating
5 at capacity factors typical of such resources in this region. Based on these
6 assumptions, I approximate the annual CO₂ emission reduction benefit of
7 this merger commitment to be between 1.3 and 2.3 million pounds per MW
8 per year. As shown in Exhibit JA (2Q)-3, if all 10 MW of the commitment
9 were to be constructed as some mix of wind and solar, I estimate that it
10 would reduce annual CO₂ emissions by between 12.6 and 23.4 million
11 pounds.

12 **Q. WOULD YOU PLEASE DESCRIBE THE LIKELY**
13 **ENVIRONMENTAL IMPACT OF REDUCING GRADE 2**
14 **METHANE LEAKS ON PIPELINES BY 2023 BY 10 PERCENT**
15 **FROM THE 2017 ANNUAL LEVEL?**

16 A. Yes. Quantifying such an impact is inherently difficult in that no
17 information that I am aware of provides specific data on the emissions from
18 Grade 1 leaks as compared to Grade 2 leaks. Such data are necessary to
19 allow me to accurately estimate these impacts. However, despite the lack
20 of specific data, any incremental reduction in the number of pipeline leaks
21 due to the settlement commitments will reduce the release of methane, a
22 powerful greenhouse gas. As such, this commitment would provide
23 environmental benefits to the District.

IV. CONCLUSIONS

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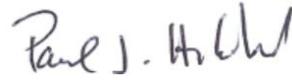
Q. PLEASE SUMMARIZE YOUR CONCLUSIONS.

A. In this testimony I evaluate three elements of the parties' settlement agreement that provide quantifiable environmental benefits. First, I find that the settlement commitment to provide \$4.2 million for energy efficiency and energy conservation initiatives will lead to a reduction in CO₂ emissions equal to 408.5 million lbs. Second, I find that the settlement commitment to increase the size of the Tier 1 renewable or electric grid storage resource developed in the District to 10 MW will reduce CO₂ emissions by between 12.6 and 23.4 million lbs *each year* for the lifetime of the renewable or storage project. Finally, the settlement commitment to reduce the number of PHMSA-reported Grade 2 leaks each year between 2019 and 2023 will reduce methane emissions in the District.

Exhibit JA (2Q)
Settlement Testimony of Paul J. Hibbard

I declare under penalty of perjury that the foregoing testimony is true and correct to the best of my knowledge, information, and belief.

Executed this 24 day of May, 2018.

Handwritten signature of Paul J. Hibbard in black ink.

Paul J. Hibbard

Exhibit JA (2Q)-1
PJM Full Year Average Marginal Fuel Type

Emission Category	PJM Full Year Average Marginal Fuel Posting
Coal	37.8%
Natural Gas	47.9%
Oil	5.2%
Other Nonrenewable	0.3%
Solar	0.2%
Nuclear	1.6%
Wind	6.9%

Note:

In 2017, 0.01% of the time the marginal unit was classified as “Missing Data,” and 0.07% of the time as “Min Gen/Dispatch Reset.” These categories are excluded from the calculated 2016 annual average marginal fuel posting.

Source:

Monitoring Analytics, 2017 Marginal Fuel Postings, available at http://www.monitoringanalytics.com/data/marginal_fuel.shtml.

Exhibit JA (2Q)-2
Lifetime CO₂ Emissions Reduction from Energy Efficiency Funding

Energy Efficiency Funding (\$)	D.C. Lifetime Cost of Energy - Low Income Programs (\$/kWh)	Energy Efficiency Savings (MWh)	Emission Rate Electricity (lbs CO ₂ /MWh)	Lifetime Emission Reduction (lbs CO ₂)
[A] ₁	[B] ₂	[A] ₁ / [B] ₂ / 1000 = [C]	[D] ₃	[C] * [D] ₃ = [E]
4,200,000	0.009	466,667	875	408,520,000

Sources:

[1] Energy efficiency commitment corresponds to ¶ 3 of the Unanimous Agreement of Stipulation and Full Settlement submitted in the context of the AltaGas-WGL merger to the Public Service Commission of the District of Columbia on May 8, 2018.

[2] District of Columbia Lifetime Cost of Energy - Low Income Programs is calculated using 2016 NEEP REED data.

[3] Emission rate data is from the Gas Technology Institute's SEEAT tool.

[4] Monitoring Analytics, 2017 Marginal Fuel Postings, available at http://www.monitoringanalytics.com/data/marginal_fuel.shtml.

Exhibit JA (2Q)-3
Annual Emissions Reduction from Tier 1 Renewable Resource

Percent of Commitment Allocation, by Fuel Type	Tier 1 Resource Commitment (MW) [A] ₁	Capacity Factor [B] ₂	Annual Tier 1 Replacement of Baseload (MWh) [A] ₁ * [B] ₂ * 8,760hrs = [C]	Emission Rate Electricity (lbs CO ₂ /MWh) [D] ₃	Annual Emission Reduction (lbs CO ₂) [C] * [D] ₃ = [E]	Annual Emission Reduction per MW (lbs CO ₂) [E] / [A] = [F]
100% Wind	10	30%	26,706	875	23,378,301	2,337,830
50% Wind, 50% Solar	10	23%	20,552	875	17,991,325	1,799,133
100 % Solar	10	16%	14,398	875	12,604,350	1,260,435

Sources:

[1] The renewable generation development in the District of Columbia commitment corresponds to ¶ 5 of the Unanimous Agreement of Stipulation and Full Settlement submitted in the context of the AltaGas-WGL merger to the Public Service Commission of the District of Columbia on May 8, 2018.

[2] The capacity factors for PJM in 2016 from SNL Financial are: wind (30%) and solar (16%). For the mix of solar and wind, this table uses the average of the solar and wind capacity factors, 23%.

[3] Emission rate data is from the Gas Technology Institute's SEEAT tool.

CERTIFICATE OF SERVICE

I, the undersigned counsel, hereby certify that on this 25th day of May, 2018, I caused copies of the foregoing to be hand-delivered, mailed, postage-prepaid, or electronically delivered to the following:

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