

**BEFORE THE  
NEW YORK STATE  
PUBLIC SERVICE COMMISSION**

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<b>Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Central Hudson Gas &amp; Electric Corporation For Electric Service</b>	<b>CASE 17-E-0459</b>
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<b>Proceeding on Motion of the Commission as to the Rates, Charges, Rules and Regulations of Central Hudson Gas &amp; Electric Corporation For Gas Service</b>	<b>CASE 17-G-0460</b>
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**DIRECT TESTIMONY BY JENNIFER METZGER  
ON BEHALF OF CITIZENS FOR LOCAL POWER**

November 21, 2017

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1 **Q. Please state your name, title, and business address.**

2 A. My name is Jennifer Metzger, and I am Director of Citizens for Local Power (CLP).

3 My business address is P.O. Box 514, Rosendale, N.Y. 12472.

4

5 **Q. On whose behalf are you testifying?**

6 A. I am testifying on behalf of Citizens for Local Power (CLP), a community-based

7 organization that works to inform citizens and local governments in the Mid-Hudson region on

8 energy issues of concern to them and to help make their voices heard in energy decisions that

9 affect them. CLP is dedicated to transitioning to an equitable, affordable, locally-based clean

10 energy economy through research, public education and outreach, and by catalyzing community,

11 municipal, and inter-municipal action.

12

13 **Q. Please state your educational background and professional experience.**

14 A. I have a B.A. in Government with High Honors from Oberlin College, and a Ph.D in

15 Political Science from Rutgers University, with concentrations in international relations, political

16 economy, and environmental policy. As Director and co-founder of Citizens for Local Power, I

17 have represented the organization in numerous proceedings of the Public Service Commission

18 relating to the Reforming the Energy Vision (REV) Initiative as well as proceedings on utility

19 street light tariff amendments and the previous Central Hudson rate case. I also participate in a

20 number of state-level working groups, including the Clean Energy Advisory Council's Working

21 Group on Voluntary Investments and the Sub-Working Group on Community Choice

22 Aggregation Programs; and Working Groups on the Value of Distributed Energy Resources

23 relating to low- and moderate-income customers and to rate design. As CLP's lead

1 representative in Commission proceedings and working groups, I undertake policy research and  
2 analysis, draft CLP's comments and proposals, and participate in in-person meetings. In 2015-  
3 2016, I also participated in a Rocky Mountain Institute-facilitated REV Public Participation  
4 Working Group to improve public participation, and in particular, participation by low- and  
5 moderate-income communities.

6  
7 At the local and regional level, I provide information to municipal officials and the public on  
8 energy and utility issues, and I am a frequent speaker at municipal and community meetings,  
9 workshops and forums. I am also a project partner in the NYSERDA-funded Mid-Hudson  
10 Streetlight Consortium, providing subject matter expertise on utility street light tariffs and on-  
11 going technical assistance to municipalities to convert to LEDs.

12  
13 In addition to my work for CLP, I have over ten years of experience in municipal government as  
14 a current Rosendale Town Council Member, former Deputy Town Supervisor, former Chair of  
15 the Town of Rosendale Environmental Commission, and member of the Town Climate Smart  
16 Community Task Force and Zoning Code Review Committee. I have led a number of energy-  
17 related projects and programs for the Town, including installation of public electric vehicle  
18 infrastructure, municipal energy assessments and energy efficiency improvements, and  
19 educational and outreach programs for residents and businesses on improving energy efficiency  
20 and reducing energy costs. I also led the drafting of the first local law in New York State, in  
21 2009, setting emissions standards for outdoor wood boilers. Earlier in my career, I conducted  
22 extensive public outreach and education on climate, energy and sustainable development issues

1 as part of my work as Public Affairs Coordinator for the United Nations Association in New  
2 York.

3

4 With reference to a portion of my testimony regarding the Company’s line clearance and ROW  
5 programs, I would also mention that I am familiar with protection of listed species of bats, as  
6 well as habitat protection more broadly, as a result of my seven years of experience serving on  
7 the Rosendale Environmental Commission.

8

9 **Q: Have you previously testified before the Commission or any other public service**  
10 **commissions?**

11 A: Yes, I testified before the Commission in the Proceeding on the Motion of the  
12 Commission as to the Rates, Charges, Rules and Regulations of Central Hudson Gas & Electric  
13 Corporation for Electric and Gas Service, Cases 14-E-0138 and 14-G-0139.

14

15 **Q: What is the purpose of your testimony?**

16 A. The purpose of my testimony is to:

- 17 • Discuss CLP’s concerns about the rate increase and certain capital and expense items that  
18 have been proposed.
- 19 • Discuss and make recommendations regarding the Company’s fixed charges.  
20 Specifically, I will make the case that Central Hudson’s fixed charges are excessive and  
21 inconsistent with public policy goals, and will recommend shifting a greater share of  
22 meeting the revenue requirement to volumetric charges.
- 23 • Discuss concerns about the proposed new “Service Size Charge.”

- 1       • Provide information and discuss concerns with the Company's recently approved Time-
- 2       of-Use (TOU) rate design.
- 3       • Discuss the Company's proposed Earnings Adjustment Mechanisms (EAMs), and
- 4       recommend higher targets as well as program design improvements for EVs, energy
- 5       efficiency, and renewable heat. I call for ending the gas expansion program and
- 6       channeling these resources into more prudent investments in energy efficiency and
- 7       beneficial electrification. I also recommend scorecard reports to customers to increase
- 8       transparency and accountability, enhance customer understanding of public policy
- 9       objectives, and further incentivize the utility to meet public policy objectives.
- 10      • Demonstrate that pole attachment fees charged to S.C. No. 8 Rate C streetlight customers
- 11      are unreasonable, have no basis in actual costs to the utility, and should be discontinued.
- 12      • Recommend that the Company's Main Street Revitalization Program be continued.

13

14 Before addressing these substantive issues, I would like to make a procedural recommendation

15 for this rate case.

16

17 **Q: What is your procedural recommendation?**

18 A: We request that the Commission hold a second set of public hearings to allow for more

19 meaningful public input into this rate case. Many community members shared with us that they

20 were unaware of the scheduled information sessions and public statement hearings in October

21 2017 until after the fact, when the hearings were reported in the media. A second set of public

22 hearings would provide wider opportunity for the public to participate, as well as more

23 meaningful input if this case proceeds to settlement. It is also essential that the public have an

1 opportunity to weigh in on any proposed changes that result from the settlement process—  
2 especially given many types of customers, including residents, small businesses, and local  
3 governments, are not directly represented in these closed-door negotiations. We request that  
4 additional hearings be held in Newburgh, Poughkeepsie, and Kingston after a Joint Proposal is  
5 filed with the Commission.

6

7 **Q: Turning to the substantive issues you wish to raise, please explain your concerns**  
8 **about the impacts of the proposed rate in the service territory.**

9 A: Residents in our communities, especially low- and moderate-income (LMI) residents, are  
10 already struggling to pay their bills and cannot afford the proposed rate hike. These include  
11 seniors, working families, the disabled, those currently unemployed or underemployed, and  
12 young people burdened with college debt. In Ulster County, residents living on household  
13 incomes at 80% or less of the state median income comprise about 43% of the population; in  
14 Greene County, they comprise nearly 50% of the population, based on U.S. Census Bureau,  
15 2011-2015 American Community Survey 5-Year Data, published on September 15, 2016. Low-  
16 income residents are hit hardest of all. In the City of Newburgh, low-income residents make up  
17 over *half* of the city's households; in the City of Kingston, they make up 43.8% of households.  
18 An April 2017 analysis by Fisher, Sheehan & Colton, provided in Exhibit \_\_JM-CLP-1, reveals  
19 that residents with income levels at or below 50% of the federal poverty level have a staggering  
20 energy burden of 40.8% of gross household income in Ulster County (nearly 4,800 households),  
21 39.3% in Dutchess County (about 4,600 households), 43% in Greene County (about 980  
22 households), and 35.6% in Orange County (about 7,400 households). These figures far exceed  
23 the 6% standard for household income that is considered affordable.

1

2 The higher rates are also a burden on our small businesses, which are the backbone of the local  
3 economy for many communities in this service territory. Small businesses typically have very  
4 thin margins, and a rate increase imposes a much larger burden than it does for big box stores  
5 and other large commercial enterprises and retail chains. Many businesses on our Main Streets  
6 struggle to remain viable, and turnover is frequent.

7

8 Our residents and businesses do not get a break. With the exception of the small concession of a  
9 one-year rate freeze following the acquisition of Central Hudson by the Canadian-based holding  
10 company, Fortis Inc., rates have increased every year and are proposed to increase again in each  
11 year for the next three years, with no relief in sight. We see no evidence that the takeover has  
12 resulted in demonstrable benefits to ratepayers outside of the near-term sweeteners added to the  
13 acquisition deal. Indeed, proposed expenditures in this rate case suggest that the benefits flow in  
14 one direction only, to Fortis shareholders, and we do not believe that this level of expenditure is  
15 justified.

16

17 **Q: What expenditures benefiting shareholders do you find objectionable?**

18 A: We strongly oppose the increase in the allowed rate of return from 9% to 9.5%, and see  
19 no justification for it. According to the Company's presentation at the Technical Conference for  
20 this rate case on September 7, 2017, the return on equity and equity layer would cost ratepayers  
21 an estimated \$4.1 million in the Rate Year, driving 7% of the rate increase. The regulated rate of  
22 return on invested capital should be just high enough to ensure that investors are willing to fund  
23 Central Hudson's investments. As Tom Konrad, a CFA and investment manager based in Stone

1 Ridge, New York, observed in his public statement at the hearing on this rate case in Kingston  
2 on October 10, 2017, the Company is asking to fund more of its capital expenditures with equity  
3 and less with debt, which, alone, would reduce the overall risk of its capital structure and  
4 increase regulated return while also increasing the attractiveness of the Company to equity  
5 investors. There is no material basis for an increase in the regulated rate of profit.

6  
7 I would add, moreover, that as a result of the Commission's *Order Adopting a Ratemaking and*  
8 *Utility Revenue Model Policy Framework*, or "Track Two Order," issued on May 19, 2016,  
9 utilities are now permitted to earn additional profit for meeting REV objectives through  
10 "Earnings Adjustment Mechanisms," or "EAMs," and the Company has proposed EAMs in this  
11 rate case for which shareholders can earn up to \$5.2 million dollars in additional profits in 2018,  
12 and up to \$8 million in additional profits for each year through 2021. We believe there is a  
13 stronger argument for reducing Central Hudson's regulated rate of return rather than increasing  
14 it, as a reduction would increase the incentive to reach EAM targets in line with public policy  
15 goals.

16

17 **Q: Are there other proposed expense items that you would like to address in testimony?**

18 A: Yes, I will address the following items: The Employee Share Purchase Plan, the line  
19 clearance and right-of-way (ROW) maintenance, which constitutes 19% of the rate increase;  
20 information technology costs, accounting for 6% of the rate increase; the proposed no-fee credit  
21 card payment option; and the proposed training center, which involves a substantial capital  
22 expense over \$36 million as well as operational expenses over \$1.6 million once constructed.

23

1 Beginning with the Employee Share Purchase Plan, the Company launched this program in May  
2 2017 to enable employees to invest up to 10% of their annual base pay for the purchase of Fortis  
3 stock, which is then matched at the 10% level by Central Hudson. According to the Staffing  
4 Panel Testimony, this program, which includes company executives, is to be funded entirely by  
5 ratepayers at a projected cost of close to \$100,000 in 2017, \$250,00 in 2018, and \$300,000 in for  
6 the Rate Year. We do not believe this additional ratepayer expense is justified, given current  
7 levels of compensation and benefits for executives—the employees most likely to receive the  
8 greatest benefit from the program.

9  
10 Turning to the Company’s line clearance and ROW spending, Central Hudson stated at the  
11 Technical Conference for this rate case, at public hearings, and in testimony that NYS DEC  
12 regulations pertaining to two listed species of bat, the Indiana Bat and the Northern Long-Eared  
13 Bat, have limited its trimming window and, as a result, the Company has incurred and will  
14 continue to incur additional costs for its program. Central Hudson has not quantified this  
15 expense, but has emphasized that these regulations are an important factor in increasing  
16 expenses. On Pages 6 to 8 of the Vegetation Management Panel Testimony, the Mr. DuBois  
17 describes the impact of NYS DEC on the Company’s planning and operations, stating that State  
18 restrictions prevent trimming as well as tree removal in specified bat zones between April 1 and  
19 October 31. I have not found any information verifying this description of regulations. NYS  
20 DEC’s guidance for the protection of these listed species only applies to tree removal, not  
21 trimming. Moreover, according to Amanda Bailey, a NYS DEC Wildlife Biologist at Albany  
22 headquarters, who I spoke with by phone, the guidance allows exceptions for human health and  
23 safety reasons, and a power outage is considered by the Department to pose a threat to human

1 health and safety. Trees that pose a threat to service reliability are permitted to be removed any  
2 time of year.

3

4 As someone who lives in a community that is home to the endangered Indiana Bat, I appreciate  
5 the Company's concern to protect these listed species. However, the guidelines only govern the  
6 removal of trees. Central Hudson's line clearing program involves substantially more tree-  
7 trimming than it does tree removal, and trimming is likely to account for the lion's share of  
8 program costs. Those costs should not be affected by activity to preserve the roosting habitat of  
9 listed bat species. It would be more economical to undertake tree-trimming and danger-tree  
10 removal year-round, and make it a practice of avoiding altogether removal of trees in the bat  
11 zones that are over 4 inches dbh, the threshold for trees supporting bat habitat. This practice  
12 would also better preserve bat habitat. If, during the roosting season, trees are identified that for  
13 some reason must be removed even if they do not pose an imminent threat to reliability, the  
14 contractor can mark them for removal during the recommended season of November 1 to March  
15 31.

16

17 I would also like to point out an inefficiency in the Company's current line clearance practices  
18 that wastes ratepayer money. As communicated to me by the Town of Rosendale Highway  
19 Superintendent, and as shown in Exhibit \_\_JM-CLP-2, which includes pictures he took of recent  
20 line clearing by the Company at different locations in town, Central Hudson's contractors waste  
21 time and resources trimming dead and dying trees infected by Emerald Ash Borer (EAB) rather  
22 than removing them altogether. Since dead trees will likely need to eventually be removed so  
23 that they do not fall on the lines, ratepayers can end up paying twice for work on a tree that

1 should have been done at one time. Moreover, removal of infected trees helps slow the spread of  
2 EAB, saving money in the future as well as mitigating the spread of disease. Given that the  
3 Company has proposed a forecasted cost, per danger tree, of \$689 for removal, it would be more  
4 efficient and less costly to take care of these trees during routine line clearance and ROW  
5 maintenance.

6  
7 I would also like to address the argument in Witness’s testimony that costs have increased as a  
8 result of “the significant increase in the number of danger trees resulting from Emerald Ash  
9 Borer (EAB) (ash trees), Woolly Adelgid (hemlock trees), Dutch Elm Disease (elm trees), White  
10 Pine Decline (pine trees), and Gypsy Moths/Oak Wilt (oak trees), which are impacting both  
11 Transmission ROW Management and Distribution Line Clearance.” (Please see Vegetation  
12 Management Panel Testimony, Page 9, Lines 11-16.) First, several of these, while devastating,  
13 have been around for some time, including Dutch Elm, Woolly Adelgid, and Gypsy moths. It is  
14 not clear what the basis is for forecasting an increase in danger trees associated with these  
15 conditions. “White Pine Decline” is not a disease so much as a gradual phenomenon related to  
16 environmental conditions, and would not cause a dramatic change in tree mortality. The only  
17 condition that could be reasonably expected to meaningfully increase the number of danger trees  
18 is EAB. However, the budgetary impact of this increase would be limited to the danger tree  
19 removal program and not affect routine line maintenance, which accounts for 60% of the  
20 Company’s proposed line clearance and ROW spending, as compared to danger trees, which  
21 only account for just 1.3% of that budget, based on data provided in the Vegetation Management  
22 Panel Testimony Exhibit\_\_(DLD-2). The exaggerated impacts of NYS DEC regulation and tree

1 diseases on line clearance and ROW maintenance activities casts doubt on whether the  
2 substantial cost increase in these programs is justified.

3  
4 Turning to Information Technology, or “IT,” investment and expenses, Central Hudson has  
5 proposed to spend \$21.8 million in capital investment and \$9.2 million in O&M in the Rate  
6 Year, and a total of \$96 million in capital investment over five years. The Company argues that  
7 these investments are essential for implementing the REV initiative. We agree that Central  
8 Hudson needs to make information technology investments related to managing a distributed  
9 energy system, and to better accommodate alternative rate design and billing that support a clean  
10 distributed system more generally. However, there are a number of expenses included in this rate  
11 plan that appear to us as less important or immediately necessary than minimizing rate impacts to  
12 our residents and small businesses. These include expenses for mobile phone apps, “live chat”  
13 website functions, and various the other costs related to the Company’s Digital Initiatives for  
14 Customer Engagement, or “DICE.”

15  
16 We also wish to express our concern that ratepayers are being asked to shoulder 100% of costs  
17 associated with developing CenHub as a platform for selling third-party products and services,  
18 when shareholders are expected to eventually capture half the revenues from these investments  
19 as profit in the form of Platform Service Revenues. These expenses include investments in  
20 “business intelligence” and “enterprise services-oriented architecture,” which are foundational  
21 investments for this platform. On page 32, lines 5-6 of the Direct Testimony of the Customer  
22 Engagement Panel, the Panel proposes that shareholders receive 50% of the profit from sales of  
23 products through the CenHub store. We argue that earnings should be fully returned to

1 ratepayers to offset capital and operational costs that ratepayers have paid for. We also note that  
2 some of the products currently sold through CenHub have nothing to do with energy, such as  
3 Google WiFi and home security systems.

4

5 **Q: Are there any IT investments directly related to customer services that you believe**  
6 **should be prioritized?**

7 A. Yes, bill redesign should be prioritized because it is a prerequisite for customers to better  
8 control their energy use and costs. The current bill design is totally inadequate in presenting the  
9 basic components of the bill in an accessible, transparent way. Residents cannot understand by  
10 looking at the bill what most charges are for. In addition, consolidated billing should be enabled  
11 to better accommodate services supplied by third-parties, including Community Choice  
12 Aggregation (CCA) programs and community distributed generation projects. Finally, to prevent  
13 customer confusion in communities where CCA programs have been established, the supply  
14 charge should be associated on the bill with the CCA program rather than with the Energy  
15 Supply Company providing supply through the CCA.

16

17 **Q: Are there any other costs relating to customer services that you wish to discuss?**

18 A: Yes, we do not see a justification for spending ratepayer money to offer no-fee bill  
19 payment by credit card, especially given that most customers continue to pay their bills through  
20 the mail. The Company has proposed to spend approximately \$344,000 in 2019, \$811,000 in  
21 2020, and over \$1 million in 2021 to provide a no-fee service to customers—a large expense,  
22 given that only 10,000-12,000 customers, or about 3% of all customers, paid by credit card in

1 2017. Data on credit card payments was provided to MI in response to an Information Request,  
2 and is included in Exhibit\_\_JM-CLP-3.

3

4 **Q: Are there any other specific expenses that you believe are not justified?**

5 A: Yes. While we strongly believe in the necessity and value of employee training programs,  
6 the proposed \$36 million employee training center is an out-sized expense for Central Hudson's  
7 small customer base, both in terms of capital costs and on-going expenses. Once fully  
8 constructed, annual operational costs are expected to exceed \$1.6 million in 2022, according to  
9 the Training and Development Panel Exhibit\_\_(TDP-3). We believe that other, less costly,  
10 options should be explored. These include partnering with local community colleges and Boards  
11 of Cooperative Educational Services on classroom space to reduce costs. Improvements to  
12 existing public educational facilities would expand the public benefit from the Company's  
13 investment. Central Hudson should also explore sharing facilities for hands-on training with  
14 other utilities, such as with Consolidated Edison and New York State Electric & Gas. Sharing  
15 facilities would have the added benefit of encouraging the exchange of information and ideas  
16 among employees of the different, non-competing utilities.

17

18 **Q: Do you have any other issues relating to the proposed revenue requirement that you**  
19 **will like to discuss?**

20 A: I would like to note that an exhaustive review of proposed expenses is beyond our very  
21 limited resources, and therefore would like to make a more general recommendation regarding  
22 the proposed revenue requirement. With all REV-related spending, we urge Staff and the  
23 Commission to encourage prioritization in order to reduce the sizeable additional rate impacts of

1 REV reforms. In our view, expenses such as no-fee credit payments and the development of  
2 phone apps are less of a priority than investments in the distribution system to support a cleaner,  
3 more reliable grid. We also note that the Company already has over 1,000 employees and has  
4 proposed to add another 68 new staff positions. Many of these would be administrative and staff  
5 positions, as opposed to operational boots-on-the-ground positions that are so important to  
6 system reliability. The total cost of these new positions is forecasted for the Rate Year to be \$6.4  
7 million, accounting for nearly 5% of the rate increase, according to a Company response to an  
8 Information Request by CLP, included in Exhibit\_\_JM-CLP-4. When reviewing the costs of new  
9 administrative and staff positions, we urge that consideration be given to whether there is an  
10 immediate need for each of these positions; and whether the tasks can be performed by existing  
11 employees, with training, if necessary.

12

13 **Q. Does that conclude the portion of your testimony concerning proposed expenses?**

14 A: Yes.

15

16 **Q: Turning to the next subject of your testimony, please discuss your concern with the**  
17 **Company's customer charge.**

18 A. At the current rate of \$24.00 per month, Central Hudson has the highest customer charge  
19 in the state and among the highest in the country. The Company is now proposing to raise it  
20 further, to \$25.00 per month. In sharp contrast, utility fixed charges in most major U.S. cities  
21 range from \$5.00 per month to \$10.00 per month, according to the report, "Caught in a Fix: The  
22 Problem with Fixed Charges for Electricity," prepared by Synapse for the Consumers Union,  
23 February 9, 2016. The Company's current customer charge is excessive, even by New York's

1 standards—37% higher than NYSEG and RG&E; 34% higher than Con Edison; 29% higher than  
2 National Grid; and 17% higher than Orange & Rockland. It is also excessive from the vantage  
3 point of energy affordability. In his statement at the hearing on this rate case in Kingston on  
4 October 10, 2017, Richard Berkley, Executive Director of the Public Utility Law Project, shared  
5 the following statistics underlining the affordability challenge in the service territory, including:

- 6 • In the City of Kingston, 28.8% of children under the age of 18, and another 8.7% of  
7 senior citizens, live in poverty;
- 8 • In the more rural communities of Lake Katrine and Pine Hill, 23% and 34% of residents,  
9 respectively, live below the poverty line;
- 10 • Across the Hudson in the City of Poughkeepsie, 35% of children and 11.7% of senior  
11 citizens live in poverty, and in the City of Newburgh, in Orange County, 46.7% of  
12 children and 26.7% of seniors live in poverty.

13 The disconnect between what the utility charges for residential service and what many people in  
14 the service territory can afford is severe.

15

16 **Q. Are there additional concerns with Central Hudson's customer charge?**

17 A. Yes. We argue that the Company's current customer charge is neither reasonable nor fair.  
18 As will be discussed later in this testimony, we also argue that Central Hudson's rate design is  
19 incompatible with most REV objectives. On the question of reasonableness, the Company lacks  
20 a compelling argument that its costs uniquely justify a charge that is so much higher than other  
21 utilities in the state or region. Central Hudson has often pointed to its relatively small size, with  
22 about 300,000 electricity customers, as a driver of its higher than average rates, since capital and  
23 expense costs must be spread over a proportionately smaller customer base. While there may be

1 merit to this argument with regard to rates generally, other small utilities have lower customer  
2 charges. Orange & Rockland, which has 33.5% fewer customers (232,600 in total), charges its  
3 New York customers \$4.00 less than Central Hudson, although that charge, too, is high by  
4 comparison to utilities outside of New York. In neighboring Connecticut, the smaller of the two  
5 investor-owned utilities, the United Illuminating Company, has a customer base similar in size to  
6 Central Hudson's, and recently reduced its fixed charges from \$17.25 to \$9.67 per month,  
7 according to an October 2017 report of the Acadia Center.

8  
9 High fixed rates unfairly burden lower-usage customers with a higher proportion of the utility's  
10 costs. The current rate design is particularly punishing for elderly and low-income residents, as  
11 well as for the many people living just above the poverty line. While data is not available on  
12 median energy usage by income level for the approximately 90,000 low-income customers in  
13 Central Hudson service territory, a study by the National Consumer Law Center, included as  
14 Exhibit \_\_JM-CLP-5, shows that in New York, median residential electricity usage is highly  
15 correlated with income. At income levels between \$25,000 and \$49,000, or between 42% and  
16 80% of the state median income, median usage is just over 5,000 kwh annually in 2009. At  
17 income levels below \$25,000, or about 41% of the state median income level, usage tends to be  
18 even lower, at about 4,000 kwh annually. By contrast, median usage by households with incomes  
19 at \$75,000 to \$99,000 is over 6,500 kwh annually, and households with incomes at or about  
20 \$100,000 use over 8,000 kwh annually--over twice the energy used by the lowest-income  
21 customers.

22

1 The study by the National Consumer Law Center also shows that energy usage varies by age,  
2 with seniors shouldering a particularly heavy energy burden. The median usage of customers at  
3 or above the age of 65 is 4,000 kwh annually, while household median income for this age group  
4 is only \$38,929—just slightly over the State’s low-income threshold of 60% of state median  
5 income. And the elderly comprise a relatively large percentage of households in the Company’s  
6 territory: In the major counties included in this territory, seniors account for 17% of the  
7 population in Ulster County, 15% in Dutchess County, 19% in Green County, and 12% in  
8 Orange County, according to U.S. Census Bureau, 2011-2015 American Community Survey 5-  
9 Year Data, published on September 15, 2016.

10

11 **Q: Would the distributional consequences of the current rate design be mitigated by**  
12 **shifting a greater share of costs to the volumetric charge?**

13 A: Yes, it would. An analysis undertaken for this testimony by CLP member Evelyn Wright,  
14 an energy economist and principle of Sustainable Energy Economics, LLC, shows that a  
15 reduction in Central Hudson’s current fixed charge in increments of \$5.00 would have a sizeable  
16 positive bill impact for the majority of customers, including low- and moderate-income  
17 customers and the elderly, since they tend to consume less than 8,000 kwh per year—the median  
18 usage level in Central Hudson territory. This analysis is provided in Exhibit\_\_JM-CLP-6.

19

20 **Q: How would Central Hudson’s low-income customers be affected by such a rate re-**  
21 **design?**

22 A: The majority of low-income customers would immediately see a bill reduction, and the  
23 majority of remaining low-income customers would see their bills increase by less than 10%,

1 even when the recommended fixed charge reduction to \$10 per month is fully phased in.  
2 Critically, these customers would now have the ability to reduce their bills, unlike under the  
3 current rate design. A rate re-design is a prerequisite for structurally addressing the energy  
4 affordability gap by empowering low-income customers to reduce bills by managing their  
5 consumption. As long as the fixed charge is high, the only way to reduce bills for the long term  
6 is through a subsidy.

7  
8 We analyzed data on kwh usage in January and July 2017 by low-income customers participating  
9 in Central Hudson’s Bill Assistance Program. This data was provided by Central Hudson in  
10 response to N.Y. Department of State Information Utility Intervention Unit (UIU) Request No.  
11 16, Revised, and is included in Exhibit \_\_JM-CLP-7. The data reveals seasonal differences, with  
12 significantly higher usage by a subset of customers in January compared to July, suggesting that  
13 low-income heating customers would see the biggest increase in bills during the colder months—  
14 an impact we recommend mitigating with both short-term and long-term measures, as I’ll  
15 suggest shortly. The most important point is that without the proposed reduction in fixed charges,  
16 low-income (and all) customers are unable to significantly reduce their bills by managing their  
17 energy use, and ongoing subsidies will be the only way to increase affordability.

18  
19 It should be pointed out that the Bill Assistance Program data set—which includes  
20 approximately 8,500 customers—represents only a small fraction of the low-income customers  
21 in Central Hudson service territory. We would expect the total number of low-income customers  
22 to be closer to 35% of the utility’s residential customers, or about 90,000 households, based on  
23 the most recent census data on county-level median income in the service territory. Moreover,

1 there is likely a selection bias in this data set because higher-usage customers may have more  
2 difficulty paying their bills and would be more likely to seek to participate in the bill assistance  
3 program or be directed to the program by the utility. On a service territory-wide basis, we would  
4 expect a significantly larger proportion of low-income customers to see an immediate bill  
5 reduction from the rate re-design as compared to those enrolled in the bill assistance program,  
6 given the findings by the National Consumer Law Center regarding the relationship between  
7 income and usage level.

8

9 **Q: You mentioned that you would recommend mitigation measures for low-income**  
10 **customers who have higher than average usage levels. What do you suggest?**

11 A. We suggest both near-term and long-term measures to mitigate bill impacts for low-  
12 income heating customers, as well as for the proportionately small number of non-heating low-  
13 income customers with high usage levels. As a near-term mitigation measure, Central Hudson  
14 could provide higher-usage low-income customers with an added per kwh bill discount for usage  
15 over 8,000 kwh. A shortcoming of this measure is that, like the current rate design, it does  
16 nothing to incentivize conservation and energy efficiency. It also does not address these  
17 customers' long-term energy burden, since usage remains unchanged. Therefore, this bill-impact  
18 mitigation measure should be combined with a low-income energy efficiency program targeted  
19 to customers with higher than average usage. Addressing the needs of the highest-usage  
20 customers first is a recognized best practice for low-income households, as identified by the  
21 report of the Clean Energy Advisory Council's Low-Income Working Group, Matter 16-01007,  
22 and should be considered by Central Hudson in its low-income program design regardless. Later

1 in this testimony, in the discussion of EAMs, we propose that the Company target heat  
2 customers, specifically, for conversion to high-efficiency heat pumps.

3

4 **Q: Is the Company's current rate design consistent with the Commission's REV**  
5 **initiative?**

6 A: No, in fact the current rate design erects barriers in the service territory to achieving four  
7 of six REV objectives listed on Page 4 of the Commission's *Order Adopting Regulatory Policy*  
8 *Framework and Implementation Plan*, issued February 26, 2015, providing yet another  
9 compelling justification for reforming Central Hudson's rate design in this rate case. The barriers  
10 are:

11 1) The high customer charge inhibits reductions in carbon emissions by decreasing the  
12 incentive to conserve and invest in energy efficiency.

13 2) The high customer charge deprives customers of the "knowledge and tools that will  
14 support effective management of the total energy bill."

15 3) The high customer charge discourages "customer contributions" to achieving REV goals  
16 by conserving and by investing in DER.

17 4) The high customer charge discourages resource diversity by reducing the incentive to  
18 invest in renewable energy.

19 By charging low-usage customers proportionately more than high-usage customers, the  
20 Company sends the wrong price signals about reducing consumption, limits the ability of  
21 customers to control their energy costs, and extends the payback period for investments in  
22 distributed energy resources, making those investments less attractive. The bar graphs in  
23 Exhibit\_\_JM-CLP-6 Illustrate clearly the perverse incentives created by this rate design. In

1 Central Hudson's previous rate case, Case Numbers 14-E-0318 & 14-G-0319, CLP pointed out  
2 the mismatch between REV objectives and the Company's high fixed charges, urging the  
3 Commission to reject the proposed increase in the customer charge. In its *Order Approving Rate*  
4 *Plan*, the Commission agreed with our reasoning that this was a traditional rate design and did  
5 not accept the increase that was part of the Joint Proposal, noting on Page 57 that changes in rate  
6 design "may well be required" as part of the REV proceeding. It is now more than three years  
7 into the REV initiative, and we believe that the time for requiring such a change has come.

8

9 **Q. Would keeping the fixed charge of \$24.00 in place in the proposed Rate Year address**  
10 **your concerns?**

11 A. No, it would not. For the reasons explained earlier in this testimony, the current fixed  
12 charges are excessive and should be reduced. Our assessment is supported by 131 local and  
13 county elected officials who are signatories to a letter to the Commission, a copy of which is  
14 provided in Exhibit \_\_ JM-CLP-8, urging the Commission to reduce utility fixed charges. Close  
15 to 90 of the signatories represent communities in Central Hudson territory.

16

17 **Q. What change do you recommend to the Company's rate design?**

18 A. We recommend reducing the customer charge to \$20 in the proposed rate year, followed  
19 by a further reduction to \$15 in 2019 and \$10 in 2020, which would bring the utility's charges  
20 into better alignment with charges regionally and nationally, better conform to the principle that  
21 rates must be reasonable and fair, and better support REV objectives. The reduction in the fixed  
22 charge would be accompanied by an increase in the volumetric charge in order to meet the  
23 revenue requirement that is ultimately approved by the Commission in this rate case. As shown

1 in Exhibit\_\_JM-CLP-6, about 60% of Central Hudson customers fall below the median annual  
2 usage threshold and would see their bills reduced. For the remainder of customers, their bills  
3 would increase in response to their higher usage, providing an incentive to use less.

4

5 **Q: Should the Commission wait to require a rate design change until after the Value of**  
6 **Distributed Resources (VDER) Rate Design Working Group completes its work?**

7 A: No, we urge the Commission to address the Company's rate design in this rate case. As  
8 demonstrated earlier in this testimony, the current customer charge is excessive when compared  
9 to customer charges elsewhere in the state and regionally, and when examined in the context of  
10 the economic conditions in the service territory. Even with the proposed reduction to \$20.00 in  
11 the Rate Year, the Company's fixed charge would still be among the highest in the state. The  
12 proposed step-down in the customer charge over three years provides an opportunity to monitor  
13 and evaluate the impacts of a progressively lower fixed charge from year to year. I would also  
14 note that the Commission last week approved a new TOU rate design proposed by the Company.  
15 Re-designing the standard rate will do much more to positively affect the majority of customer  
16 bills and align customer incentives with REV goals than will an optional TOU rate. Finally, it is  
17 not clear that the VDER process will address this issue, and customers would not be served by  
18 further delay in addressing an issue so contrary to the REV and to the public interest.

19

20 **Q: Is there anything else you would like to add to your testimony regarding customer**  
21 **charges?**

22 A: Yes. I have not addressed the question of how specific costs are to be divided between  
23 the customer charge and the volumetric charge. Our recommendations are not based on a

1 detailed cost analysis in this case but, rather, on a path to align Central Hudson's rates with  
2 regional and national best practices, as well as important State policy objectives, while also  
3 meeting the revenue requirement. In our view, Central Hudson's unreasonable application of rate  
4 design principles has thus far failed to produce outcomes that are fair, reasonable, equitable, and  
5 consistent with State energy goals. I would urge Staff and the Commission to take a broad view  
6 in evaluating Central Hudson's current rate design, taking into account its negative consequences  
7 for society and the opportunity we now have to reform the residential rate to the immediate  
8 benefit of the majority of customers in a way that is consistent with REV objectives. Customer  
9 charges should be no higher than the cost of keeping a customer connected to the grid, along  
10 with related customer service.

11

12 **Q: Would you like to speak to any other issues regarding SC 1 rates?**

13 A: Yes, I would like to address the Company's proposed new "Service Size Charge," which  
14 would be additional to the existing customer and volumetric charges for those customers that  
15 consume more electricity than the service territory average. As proposed, each customer would  
16 be assigned, on an annual basis, a Service Size threshold level corresponding to their usage over  
17 the previous 12 months. Customers that consume over 9,000 kwh would be charged an additional  
18 \$1.00-\$4.00, depending on the fee associated with their Service Size tier. While we support the  
19 general principle that customers with higher-than-average consumption should bear a greater  
20 share of the delivery costs, we are concerned that the proposed charge is arbitrary and not cost-  
21 based. Moreover, the 12-month time period for readjusting the rate is too long to provide an  
22 effective price signal to customers to reduce consumption. We believe that our proposals for  
23 lowering the customer charge and increasing the volumetric charge will do more to incentivize

1 customers to conserve energy, invest in distributed energy resources, and generally gain greater  
2 control over their energy costs. Finally, this charge would have a significant impact on heating  
3 customers, a number of whom are low-income. Any significant increases in charges for low-  
4 income customers must be mitigated, as discussed.

5  
6 **Q: Are there any other rate design issues you would like to address in this testimony?**

7 A: Yes, I would like to discuss the Company's Time-of-Use (TOU) rate design that was just  
8 approved on November 16, 2017, in Case 17-E-0369, Petition of Central Hudson Gas & Electric  
9 Corporation for Time of Use Rate Review and Recommendations. In that proceeding, CLP filed  
10 comments on November 7 requesting that a decision on Central Hudson's proposal be delayed  
11 until after this rate case. We argued that postponement would allow related rate design issues to  
12 be considered in an integrated way as part of this proceeding. Moreover, a rate case also allows  
13 for discovery by Parties to help ensure a thorough examination of all relevant issues for the  
14 benefit of customers. The Commission denied our proposal based on a concern that our request  
15 would unduly delay implementation. We respectfully disagree with the Commission and wish to  
16 offer testimony demonstrating that insufficient analysis was undertaken by the Company in  
17 designing the new rate, and that flaws in the original rate design and public outreach plan have  
18 not been addressed.

19  
20 **Q: What are your concerns with Central Hudson's new TOU rate design?**

21 A: First, we want to note a major improvement in the new TOU rate design over the current  
22 TOU rate design—namely, a reduction in the on-peak window from 12 hours to five hours,  
23 which is more closely related to actual peak usage and gives customers significant more

1 flexibility to shift load off-peak. As the Company noted in its filing, a shorter on-peak window is  
2 a well-established rate design principle for TOU rates.

3

4 This change alone is not, however, sufficient to ensure that the Company's TOU rate will benefit  
5 customers in the service territory. According to information obtained through discovery in this  
6 rate case by UIU, provided in Exhibit \_\_JM-CLP-9, the Company developed this rate without the  
7 benefit of any analyses of 1) residential load in its service territory to inform rate design, 2)  
8 alternative time-sensitive rates; or 3) the bill impacts of TOU vs. standard rates. The Company  
9 also did not examine how and whether the proposed TOU rate would benefit subsets of  
10 customers, such as low-income customers or customers with technologies for which a TOU rate  
11 design would be particularly valuable. These analyses are essential for developing a rate design  
12 that is appropriate for Central Hudson customers, and for equipping the utility to provide enough  
13 information to customers so that they can make an informed decision about participating.

14

15 Such due diligence is particularly important given the fact that many participants in the  
16 previously approved TOU rate do not appear to have benefited from it. Exhibit \_\_JM-CLP-10  
17 includes a table developed by CLP on the percentages of TOU customers that saved money and  
18 lost money compared to the standard rate, based on data provided through discovery that is  
19 included in the same Exhibit. The table shows that in two of the five years between 2012 and  
20 2017, customers ended up paying more compared to the standard rate. In 2012, as much as 63%  
21 of customers paid more compared to the standard rate, and in the first half of 2017, 51% of  
22 customers paid more. And in two of the four years in which a majority of customers saved, 23%-  
23 27% of customers still ended up losing money. Participation in Central Hudson's TOU rate has

1 decline every year since the height of participation in 2001, with 7,211 customers. Today, only  
2 975 customers participate. According to the Company's response to an Information Request  
3 from CLP, no surveys were undertaken to understand why customers stopped participating. This  
4 would be important information to have when designing improvements to the rate.

5  
6 There were several problems with the current rate that also pertain to the new rate. One issue is  
7 the high fixed charge of \$27.00, which is problematic for all the same reasons discussed earlier  
8 in this testimony with respect to the standard residential fixed charge. In addition, a TOU rate  
9 that is 22% higher than the standard rate of \$24.00 makes it more difficult for customers to  
10 achieve savings, since customers must shift more load to off-peak hours to make up the  
11 difference between the TOU fixed rate and standard fixed rate.

12  
13 Another problem is that the Company does not provide adequate information on its website for  
14 customers to be able to determine whether or not they would benefit from a time-variant rate in  
15 the first place. The website provides no information about whether customers with average or  
16 less than average loads may benefit, or what an optimum usage profile might look like. This  
17 increases the likelihood that customers could make the wrong decision about participating in the  
18 TOU rate. And if they do make the wrong decision, they are stuck paying higher rates for a full  
19 year, since the Company requires a one-year commitment to participate. Finally, customers only  
20 receive one communication, 12 months after enrollment, about their savings compared to the  
21 standard rate, making it more difficult for them to manage their use in a way that maximizes  
22 savings.

23

1 The education, outreach, and enrollment plan proposed by the Company and approved by the  
2 Commission does not address these shortcomings. No mention is made in the Company's plan  
3 about providing information to customers that will enable them to assess their pattern of energy  
4 use and whether they are able to shift a sufficient portion of their load enough to be economically  
5 beneficial. Once enrolled, customers will have access through the utility website to monthly data  
6 on their on- and off-peak usage, but will not be able to compare savings with the standard rate.

7  
8 Under the new rate, the Company will continue to require that customers commit to participating  
9 for a year, which is unreasonable given their inexperience with time-varying rates and the level  
10 of uncertainty they will have about whether the rate will benefit them. The new rate actually  
11 increases uncertainty and makes customers more vulnerable to supply price volatility because the  
12 supply rate will now be based on actual day-ahead market prices rather than on pre-set fixed  
13 monthly prices. Customers should be equipped with information that enables them to evaluate  
14 their savings from month to month, and should be given the opportunity to opt out after the first  
15 month, and then again after the sixth month of participation.

16  
17 We have concerns that the pricing structure may not deliver meaningful enough savings to  
18 incentive participation. The Company stated on Page 11 of its filing in Case 17-E-0369 that,  
19 "further analysis of the alternative S.C. No. 6 rates indicates that for each five percent shift in  
20 usage from the on-peak to the off-peak period each month results in a 0.65 percent decrease in  
21 the total bill excluding surcharges at the annual usage level of 7,500 kWh." According to a 2017  
22 report of Consumer and Clean Energy Advocates, data from TOU pilot studies suggest that  
23 residential customers are, *at most*, able to shift 3%-10% of their load without additional

1 technologies; thus any possible savings through the TOU rate for typical residential customers  
2 will be very small, as will be the incentive to participate.

3  
4 In conclusion, the recently approved TOU rate, along with education, outreach and enrollment  
5 plan to support it, have not been developed with adequate analysis and do not adequately address  
6 the shortcomings of the existing rate and plan. We believe these shortcomings need to be  
7 addressed if the TOU rate is to deliver value to customers and the grid. Later in this testimony  
8 we also recommend development of an alternative TOU rate specifically for EV drivers that will  
9 encourage EV adoption while managing the impacts of EV charging on distribution system.

10

11 **Q: Are there any other REV-related programs relevant to this proceeding, other than**  
12 **rate design, that you would like to discuss?**

13 A: Yes, I would like to discuss and make recommendations concerning the Company's  
14 proposed Earnings Impact Mechanisms, or EAMs. According to the Commission REV Track II  
15 Order, EAMs are supposed to align utility financial incentives with REV objectives by rewarding  
16 utilities with additional profit for achieving certain well-defined public policy outcomes. The  
17 Commission approved guidelines for EAMs, and directed utilities to develop specific EAMs in  
18 their rate cases. Central Hudson has proposed EAMs in six areas: energy efficiency, carbon  
19 intensity, system efficiency, interconnection, customer engagement, and DER utilization.

20

21 We are concerned to make sure that any EAM approved by the Commission includes 1) targets  
22 that are meaningful, going well beyond what we would expect under status quo conditions, 2)  
23 utility actions that are cost-effective, and 3) outcomes that are clearly measurable. If the

1 Company is to be permitted to earn up to \$8 million in additional profit, as approved by the  
2 Commission in its Track II Order, then ratepayers should see significant and demonstrable  
3 progress in advancing public policy objectives within the service territory.  
4

5 **Q: Do you agree that the Company should receive EAMs for all of the proposed**  
6 **objectives?**

7 A: No, we do not agree that the Company should receive a profit incentive for “customer  
8 engagement.” As defined by the Company, customer engagement is measured by increased  
9 customer interaction with its website and by participation in voluntary time-variant rates. The  
10 Company already has a material incentive to engage customers at its website, since building a  
11 user base is an investment that will result in future profits in the form of Platform Service  
12 Revenues for energy services, including third-party community solar subscriptions. And as  
13 discussed earlier in this testimony, the recently approved TOU rate has shortcomings that need to  
14 be addressed before the Company is rewarded for enrolling customers in it.  
15

16 We also note that there appears to be some redundancy among targets: Central Hudson would be  
17 rewarded for the same MWh reductions for the energy efficiency EAM and the DER Utilization  
18 EAM. We recommend that energy efficiency not be treated as a separate EAM.  
19

20 **Q: Do you believe the Company has set its targets at appropriate levels for receiving**  
21 **additional profits?**

22 A: No, we argue that the targets are generally too low. In the area of energy efficiency, the  
23 Company is asking to be rewarded \$2.4 million in profit to achieve a MWh reduction target that

1 is nearly 25% lower than the established value in its Commission-approved Energy Efficiency  
2 Transition Implementation Plan (ETIP), and only half the level of reduction achieved in 2016.  
3 Central Hudson has stated that its Realistic Achievable Potential Study, completed after the ETIP  
4 was approved, shows that the opportunities for further cost-effective reductions are limited;  
5 however, we disagree and believe that this target should be more aggressive. For example,  
6 Central Hudson could achieve substantial energy efficiency gains by expediting the process for  
7 municipalities to purchase their street lights and convert to LED, which can reduce energy  
8 consumption by a minimum of 65%. In 2015, Central Hudson's street lights consumed about  
9 16,158 Mwh of electricity, or about 72% of the Company's 2019 proposal annual Mwh target.  
10 The total consumption is now lower, with over 10% of lights already converted to LED, but the  
11 opportunity for energy savings remains very large. In addition, there is significant potential to  
12 improve the energy performance of buildings, particularly when installation of heat pumps is  
13 combined with improvements to the building envelope. We recommend that the utility integrate  
14 building efficiency improvements into its beneficial electrification programs. Btu, rather Mwh,  
15 would be a more valuable measurement for capturing the full range of possible energy savings  
16 through improved efficiency.

17

18 We also argue that Central Hudson's heat pump program targets can, and should, be more  
19 aggressive. For 2018, the Company has proposed to sign up only 793 participants in its air  
20 source/mini-split heat pump program, and only 138 participants in its ground source heat pump  
21 program. These are fairly insignificant numbers when viewed in the context of the State's  
22 climate goals. The residential and commercial building sector currently accounts for about a third  
23 of New York's carbon emissions. The State cannot achieve its target of reducing carbon

1 emissions by 80% by 2050 below 1990 levels in the absence of major reductions in on-site  
2 fossil-fuel combustion in buildings. Currently, renewable heating and cooling—both air- and  
3 ground-source heat pumps—account for a mere 1% of heating and cooling systems statewide.  
4 We have a long way to go to make a dent in reducing carbon emissions in this sector. Higher  
5 targets are achievable, especially given the incentives and programs that NYSERDA has recently  
6 rolled out as part of its Renewable Heat NY initiative.

7  
8 The shift to renewable heating and cooling can make a particularly big impact on on-site  
9 emissions reductions in Central Hudson territory, where most customers still rely on fuel oil, and  
10 to a lesser extent, propane. Central Hudson territory must leap-frog over natural gas in order to  
11 meet state climate goals. We urge the Commission to require the Company to discontinue its  
12 natural gas expansion program and reallocate those funds to renewable heating and cooling, with  
13 a priority focus on low-income heat customers. Natural gas expansion is not only inconsistent  
14 with New York’s climate policy but also with the state’s policy to reject hydraulic-fracturing for  
15 the extraction of natural gas on human and environmental health grounds. It is inconsistent to  
16 ban the practice here while encouraging the practice elsewhere through State-supported gas  
17 natural expansion.

18  
19 **Q: The Company has also proposed an EV initiative as part of its Carbon Reduction**  
20 **EAM. Do you have any recommendations regarding the target or program?**

21 A: Transportation is the single largest source of carbon emissions in New York, and  
22 effective programs by utilities to encourage EV adoption while managing their impact on the  
23 grid are critically important. Central Hudson proposes to offer a customer incentive for vehicle

1 purchase, and proposes targets for customer participation of 1,228 in 2018, 3,684 in 2019, 6,140  
2 in 2020, and 8,596 in 2021. While we are pleased to see an EV program as part of this rate plan,  
3 the Company's program design is unimaginative, and does not take advantage of the utility's  
4 unique position to increase the EV adoption rate in the service territory. Moreover, the targets are  
5 set too low, given current market trends as well as means at the Company's disposal to promote  
6 the EV adoption through better program design.

7  
8 According to the Rocky Mountain Institute, in the last decade, the plug-in market expanded to 20  
9 different models, battery costs dropped by 70%, and the number of EV charging stations grew to  
10 16,000.<sup>1</sup> By the end of 2016, New York had the highest number of plug-in EVs on the road than  
11 any northeastern state, and a number of counties in Central Hudson territory have among the  
12 higher levels of EV ownership statewide, according to NYSERDA's Electric Vehicle  
13 Registration Map. This map has not been updated since November 2016, prior to the release of  
14 the Chevy Bolt and Tesla Model 3, and likely underestimates current EV ownership in the  
15 region. With the introduction of these EVs, with ranges of 238 and 310 miles per charge,  
16 respectively, all-electric vehicle sales nationally increased by 86% in 2017 over the previous  
17 year.<sup>2</sup> Bloomberg New Energy Finance, *Electric Vehicle Outlook 2017*, predicts that U.S. EV  
18 sales will grow from the current level of just over 1% to over 3.5% in 2021. Any targets set for  
19 customer adoption in the service territory should exceed forecasted trends, nationally and in the  
20 service territory.

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<sup>1</sup> Rachel Gold and Cara Goldenberg, *Driving Integration: regulatory Responses to Electric Vehicle Growth*, Rocky Mountain Institute, 2016: p. 11.

<sup>2</sup> Zachary Shahan, "100% Electric Sales Up 86% in 2017 (US Electric Car Sales Report)," *Clean Technica*, Aug. 2, 2017.

1

2 There is much that the Company could do, other than offering a rebate, to accelerate adoption of  
3 EVs. With its access to several hundred thousand customers, the Company could potentially  
4 negotiate a discount for an aggregated purchase of EVs from a manufacturer, bringing the cost  
5 down further at no cost to ratepayers. We also strongly recommend that the Company develop a  
6 TOU rate specifically for EV drivers that will 1) encourage EV use in line with REV climate  
7 goals and the approved EAM target in this rate case, and 2) encourage off-peak charging. Under  
8 Central Hudson's recently approved TOU rate, a customer with below average household usage  
9 who owns an electric vehicle and shifts charging to off-peak hours would still end up paying  
10 more than the standard rate, even though an electric vehicle can increase household usage by  
11 50%. PG&E, in California, has developed a TOU rate for EV drivers that has been intentionally  
12 designed to ensure that customers with more efficient household usage, and therefore less elastic  
13 demand, can reduce their costs by charging at off-peak times. An attractive TOU rate for EV  
14 drivers would benefit both the grid and the climate. Central Hudson could create a very  
15 appealing package for customers, marketing purchase price discounts and a TOU rate together to  
16 further accelerate the adoption of EVs.

17

18 Finally, we recommend that the Company offer an incentive to encourage installation of free  
19 charging stations at workplaces to support off-peak charging, with a higher incentive for  
20 charging units co-located with renewable systems. By adding these three recommended  
21 programs—an aggregated purchase program, an EV TOU rate, and a workplace charging  
22 incentive—Central Hudson could achieve more aggressive targets for EV adoption while better  
23 ensuring that the shift to electric vehicles does not aggravate peak demand.

1

2 **Q: Do you have any concerns about the Company's targets for solar PV penetration in**  
3 **the service territory?**

4 A: Yes, the Company's target of 60,714 MWhs for 2018 strikes us as low, given 1) the large  
5 increase from year to year in customer-sited PV since 2013, as shown in data provided by the  
6 Company in response to Staff's Information Request No. 687; and 2) the continued success of  
7 NYSERDA's New York Sun Program in accelerating customer adoption of PV. Moreover,  
8 growing public awareness that net-metering is coming to an end for systems installed after 2020  
9 may cause residents to make the investment in solar sooner rather than later.

10

11 **Q: Do you have any other recommendations with regard to performance incentives?**

12 A: Yes, another, much less costly utility performance incentive is transparency, and we  
13 recommend that the Commission require the Company to annually send customers a Department  
14 of Public Service-verified "scorecard" reporting utility progress in meeting EAM program  
15 targets, as well as targets to reduce customer shut-offs and improve affordability. A scorecard for  
16 the public must be presented in accessible, readily understandable language, free of utility  
17 regulatory jargon. In addition to incentivizing utility behavior in line with public policy  
18 objectives, a scorecard mailed to customers with their bill would also serve a valuable and much-  
19 needed educational and awareness-raising function, which is essential for increasing customer  
20 engagement and implementing REV objectives.

21

22 **Q: Turning to streetlighting, please explain your concern about fees charged to**  
23 **municipal customers who own their lights.**

1 A: Municipal street light customers who own their street lights and pay a delivery-only rate  
2 to Central Hudson are additionally charged a pole attachment fee of \$7.27 per pole for a  
3 Company-owned pole and \$3.62 per pole for a pole owned jointly with a third party—costs that  
4 add up with ownership of hundreds, and in some case thousands, of lights. According to  
5 Exhibit\_\_ (FRP-14), Schedule H, of the Forecasting and Rates Panel, the proposed fees for the  
6 Rate Year would be increased further, to \$8.43 per pole, and \$4.20 per pole, respectively. We  
7 argue that these attachment fees should be eliminated altogether because municipalities, as  
8 electricity customers paying delivery rates for street lights, are already paying for poles and  
9 should not be made to pay for them twice. The attachment of street lights does not incur any  
10 additional expense to the Company. The poles do not suffer wear-and-tear as a result of these  
11 attachments, and all costs of removing and replacing street lights are paid for by the customer,  
12 including expenses incurred when a pole is knocked down in an accident or storm.

13

14 **Q: Does the Company classify and allocate any of its pole maintenance expense or**  
15 **capital costs specifically to street light customers?**

16 A: No, the Company does not. As shown by Central Hudson's response to CLP's  
17 Information Request No. 6, provided in Exhibit\_\_CLP-JM-11, the Company states that, "the  
18 classification and allocation methodology utilized by the Company as described above does not  
19 distinguish between poles with or without streetlights as the costs incurred related to the delivery  
20 of electricity rather than the attachment of lights to poles." The pole attachment fees are  
21 unrelated to cost causation.

22

1 While charging a pole attachment fee to telecommunications companies for supporting their  
2 facilities makes sense, since this use is entirely unrelated to the delivery of electricity, there is no  
3 basis for charging such a fee to street light customers. We urge the Commission require that  
4 attachment fees be removed from the Company's tariff, PSC No. 15, S.C. 8 – Public Street and  
5 Highway Lighting. Communities who own their street lights should not be burdened with this  
6 unnecessary expense.

7

8 **Q: Does that conclude your testimony with regard to pole attachment fees?**

9 A: Yes.

10

11 **Q: Please explain your concern with the Company's proposal to end the Main Street  
12 Revitalization Program.**

13 A: We recommend that this program be retained because of the continuing challenges that  
14 many communities in the service territory face with vacant and blighted areas of their downtown  
15 business districts—particularly in smaller rural communities. The Company has not made a good  
16 case for eliminating this program from the suite of possible economic development grants that  
17 can be funded through its remaining balance of \$3.58 million. In the Business Development  
18 Panel Testimony, the Witnesses state that “projects were initially difficult to find,” after the  
19 program was first approved in 2012, but that the Company eventually rewarded five grants in  
20 2014, in total, three of which have been completed. Central Hudson has not solicited any new  
21 applications since 2014. We would argue that this program has barely established a track record,  
22 and should continue, based on the need for this type of assistance in the service territory. We  
23 would also recommend reducing the required matching contribution by applicants. Communities

1 faced with challenges of blight typically lack the resources to address them. Smaller  
2 communities, in particular, are constrained by a small tax base and small capital budgets, and are  
3 not typically able to come up with 66% of the project costs, as required by the program. While  
4 they are permitted to meet a third of the project costs by other means, such as by obtaining other  
5 grant funding, these resources are scarce and costly to secure. The difficulty faced by rural  
6 communities in meeting the project financing requirements is supported by the fact that three of  
7 the five grants for a program intended for small- to medium-sized towns have gone to the three  
8 cities in Central Hudson service territory. We recommend that this grant program be maintained  
9 and that the percentage of project costs covered by the grant be increased to 75% for smaller  
10 projects of \$100,000 or less, and 50% for projects ranging from \$150,000 to \$250,000.

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12 **Q: Does that conclude your direct testimony?**

13 A: Yes, thank you.

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**STATE OF NEW YORK  
PUBLIC SERVICE COMMISSION**

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**Proceeding on Motion of the Commission  
as to the Rates, Charges, Rules and Regulations  
of Central Hudson Gas & Electric Corporation  
for Electric Service.**

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**Case 17-E-0459**

**Proceeding on Motion of the Commission  
as to the Rates, Charges, Rules and Regulations  
of Central Hudson Gas & Electric Corporation  
for Gas Service.**

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**Case 17-G-0460**

EXHIBIT JM-CLP-6

JENNIFER METZGER  
CITIZENS FOR LOCAL POWER, INC.

Dated: November 21, 2017

## **Residential Fixed Charge Bill Impacts Analysis**

Prepared by Evelyn Wright, Sustainable Energy Economics, for Citizens for Local Power

This exhibit computes the bill impacts of various levels of monthly fixed charges on residential customers by consumption level, using data provided by Central Hudson. The analysis shows that reducing the monthly fixed charge substantially reduces the bills of the lowest consuming customers, providing a stronger incentive for all customers to manage their consumption, while having a much lesser percentage impact on customers with above average consumption.

The first page contains data on customer numbers and average consumption at various annual consumption levels, provided by Central Hudson in response to PULP-1, IR-002, along with the proposed service size charge levels. The second page computes the average monthly bills for customers within each usage level and the total annual revenue, based on Central Hudson's proposed monthly fixed charge of \$25/month and volumetric rate of \$ 0.08495/kWh. It then computes the volumetric charge that would be required to maintain this level of total annual revenue at monthly fixed charges of \$20, \$15, and \$10 per month. The following three pages compute the average monthly bills for customers in each usage class and graph the corresponding percentage change in those bills from those associated with the proposed \$25/month charge.

At CLP's recommended target fixed charge level of \$10/month, the lowest consuming customers would see their bills cut in half, while those in the very highest usage class would see a 16 percent increase. The majority of customers – those consuming at the median level of 5000-6000 kwh annually through those consuming up to two and a half times the median level – would see less than a 10 percent impact on their bill in either direction.

**Data from Central Hudson - Response to PULP-1, IR-002**

<i>Annual kWh (Upper Limit of Threshold)</i>	<i>Percent of Customers</i>	<i>Cumulative Percent</i>	<i>Number of customers</i>	<i>Total annual kWh in group</i>	<i>Average annual kWh per customer</i>	<i>Proposed Monthly Service Size Charge</i>
1,000	3.6%	3.6%	9,090	4,304,068	473	-
2,000	5.5%	9.1%	14,045	21,723,511	1,547	-
3,000	7.8%	16.9%	20,024	50,386,383	2,516	-
4,000	8.6%	25.5%	22,072	77,384,421	3,506	-
5,000	8.9%	34.4%	22,620	101,845,852	4,502	-
6,000	8.9%	43.3%	22,690	124,750,146	5,498	-
7,000	8.4%	51.7%	21,537	140,013,692	6,501	-
8,000	7.8%	59.5%	19,973	149,618,234	7,491	-
9,000	6.9%	66.4%	17,616	149,521,318	8,488	1.00
10,000	6.0%	72.5%	15,425	146,332,266	9,487	2.00
11,000	5.1%	77.6%	12,977	136,098,295	10,488	2.00
12,000	4.2%	81.8%	10,826	124,319,766	11,483	2.00
13,000	3.4%	85.2%	8,595	107,323,569	12,487	3.00
14,000	2.7%	87.9%	6,919	93,256,888	13,478	3.00
15,000	2.2%	90.1%	5,642	81,684,956	14,478	3.00
20,000	6.0%	96.1%	15,437	263,279,075	17,055	4.00
Over 20,000	3.9%	100.0%	9,862	275,097,008	27,895	4.00
			<u>255,350</u>	<u>2,046,939,448</u>		

**Compute total revenue requirement, as proposed by Central Hudson,  
at fixed charge of \$25/month**

<i>Annual kWh (Upper Limit of Threshold)</i>	Fixed charge	Volumetric charge	Service size charge	Monthly bill per customer
1,000	2,727,000	365,631		28.35
2,000	4,213,500	1,845,412		35.95
3,000	6,007,200	4,280,323		42.81
4,000	6,621,600	6,573,807		49.82
5,000	6,786,000	8,651,805		56.87
6,000	6,807,000	10,597,525		63.92
7,000	6,461,100	11,894,163		71.02
8,000	5,991,900	12,710,069		78.03
9,000	5,284,800	12,701,836	211,392	86.09
10,000	4,627,500	12,430,926	370,200	94.16
11,000	3,893,100	11,561,550	311,448	101.24
12,000	3,247,800	10,560,964	259,824	108.29
13,000	2,578,500	9,117,137	309,420	116.40
14,000	2,075,700	7,922,173	249,084	123.42
15,000	1,692,600	6,939,137	203,112	130.49
20,000	4,631,100	22,365,557	740,976	149.74
Over 20,000	2,958,600	23,369,491	473,376	226.47
	<b>76,605,000</b>	<b>173,887,506</b>	<b>3,128,832</b>	<b>253,621,338</b>
		<b>Total revenue:</b>	<b>253,621,338</b>	
		Fixed+volumetric revenue only:	250,492,506	

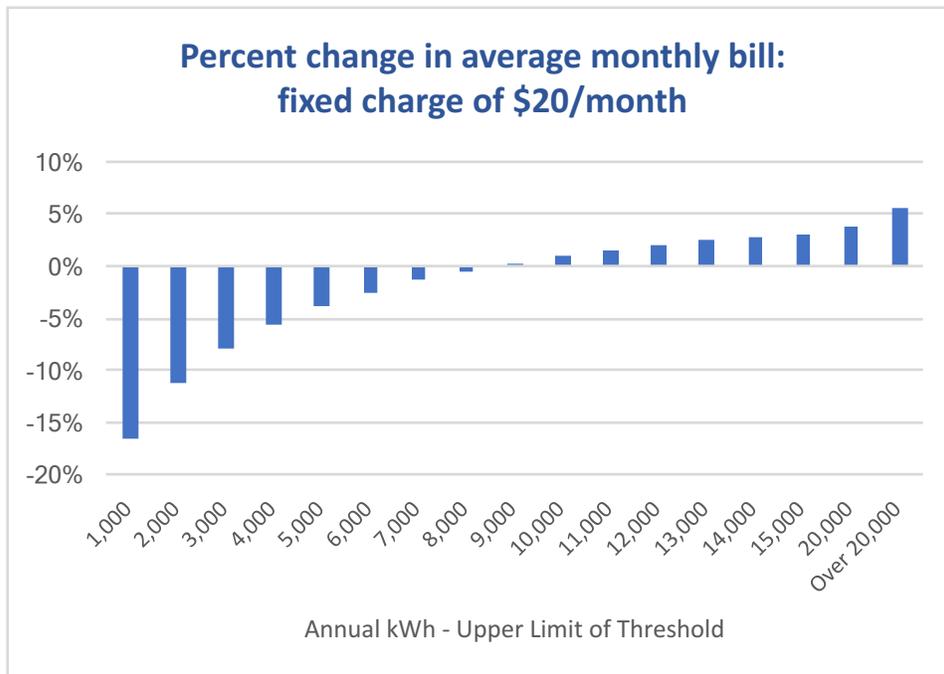
**Estimate volumetric charge required for different levels of fixed charge**

Fixed charge	Fixed charge revenue	Volumetric revenue required	Volumetric rate needed
25	76,605,000	173,887,506	0.08495
20	61,284,000	189,208,506	0.09243
15	45,963,000	204,529,506	0.09992
10	30,642,000	219,850,506	0.10740

**Calculate monthly bills at fixed charge of \$20/month**

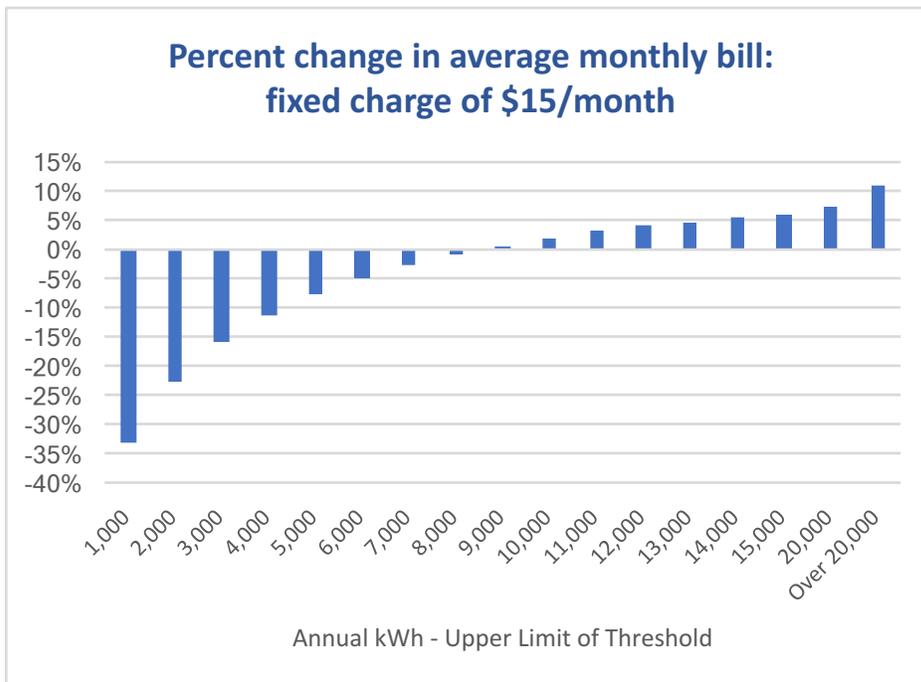
<i>Annual kWh (Upper Limit of Threshold)</i>	Fixed charge	Volumetric charge	Service size charge	Monthly bill per customer	% change in monthly bill from \$25 rate
1,000	2,181,600	397,846		23.65	-17%
2,000	3,370,800	2,008,009		31.91	-11%
3,000	4,805,760	4,657,457		39.38	-8%
4,000	5,297,280	7,153,016		47.01	-6%
5,000	5,428,800	9,414,104		54.68	-4%
6,000	5,445,600	11,531,259		62.35	-2%
7,000	5,168,880	12,942,142		70.08	-1%
8,000	4,793,520	13,829,936		77.70	0%
9,000	4,227,840	13,820,978	211,392	86.38	0%
10,000	3,702,000	13,526,199	370,200	95.08	1%
11,000	3,114,480	12,580,223	311,448	102.79	2%
12,000	2,598,240	11,491,477	259,824	110.46	2%
13,000	2,062,800	9,920,436	309,420	119.18	2%
14,000	1,660,560	8,620,185	249,084	126.82	3%
15,000	1,354,080	7,550,535	203,112	134.52	3%
20,000	3,704,880	24,336,157	740,976	155.37	4%
Over 20,000	2,366,880	25,428,546	473,376	238.87	5%
	<b>61,284,000</b>	<b>189,208,506</b>	<b>3,128,832</b>	<b>253,621,338</b>	

**Total revenue: 253,621,338**



**Calculate monthly bills at fixed charge of \$15/month**

<i>Annual kWh (Upper Limit of Threshold)</i>	Fixed charge	Volumetric charge	Service size charge	Monthly bill per customer	% change in monthly bill from \$25 rate
1,000	1,636,200	430,061		18.94	-33%
2,000	2,528,100	2,170,606		27.88	-22%
3,000	3,604,320	5,034,591		35.95	-16%
4,000	3,972,960	7,732,226		44.19	-11%
5,000	4,071,600	10,176,404		52.49	-8%
6,000	4,084,200	12,464,993		60.78	-5%
7,000	3,876,660	13,990,121		69.13	-3%
8,000	3,595,140	14,949,804		77.38	-1%
9,000	3,170,880	14,940,120	211,392	86.67	1%
10,000	2,776,500	14,621,471	370,200	95.99	2%
11,000	2,335,860	13,598,896	311,448	104.33	3%
12,000	1,948,680	12,421,990	259,824	112.62	4%
13,000	1,547,100	10,723,735	309,420	121.97	5%
14,000	1,245,420	9,318,197	249,084	130.23	6%
15,000	1,015,560	8,161,934	203,112	138.55	6%
20,000	2,778,660	26,306,757	740,976	161.01	8%
Over 20,000	1,775,160	27,487,601	473,376	251.27	11%
	45,963,000	204,529,506	3,128,832	<b>253,621,338</b>	
		<b>Total revenue:</b>	<b>253,621,338</b>		



**Calculate monthly bills at fixed charge of \$10/month**

<i>Annual kWh (Upper Limit of Threshold)</i>	Fixed charge	Volumetric charge	Service size charge	Monthly bill per customer	% change in monthly bill from \$25 rate
1,000	1,090,800	462,276		14.24	-50%
2,000	1,685,400	2,333,203		23.84	-34%
3,000	2,402,880	5,411,724		32.52	-24%
4,000	2,648,640	8,311,435		41.38	-17%
5,000	2,714,400	10,938,703		50.30	-12%
6,000	2,722,800	13,398,727		59.21	-7%
7,000	2,584,440	15,038,100		68.19	-4%
8,000	2,396,760	16,069,671		77.05	-1%
9,000	2,113,920	16,059,262	211,392	86.97	1%
10,000	1,851,000	15,716,744	370,200	96.91	3%
11,000	1,557,240	14,617,569	311,448	105.87	5%
12,000	1,299,120	13,352,502	259,824	114.78	6%
13,000	1,031,400	11,527,034	309,420	124.76	7%
14,000	830,280	10,016,209	249,084	133.64	8%
15,000	677,040	8,773,332	203,112	142.58	9%
20,000	1,852,440	28,277,357	740,976	166.65	11%
Over 20,000	1,183,440	29,546,656	473,376	263.67	16%
	<b>30,642,000</b>	<b>219,850,506</b>	<b>3,128,832</b>	<b>253,621,338</b>	
		<b>Total revenue:</b>	<b>253,621,338</b>		

