

**BEFORE THE PUBLIC UTILITIES COMMISSION
OF THE STATE OF COLORADO**

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**IN THE MATTER OF THE APPLICATION)
OF PUBLIC SERVICE COMPANY OF)
COLORADO FOR APPROVAL OF ITS) PROCEEDING NO. 23A-0392EG
2024-2028 CLEAN HEAT PLAN.)**

**DIRECT TESTIMONY AND ATTACHMENTS OF DANIEL R. AAS
ON**

BEHALF OF

PUBLIC SERVICE COMPANY OF COLORADO

August 1, 2023

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TABLE OF CONTENTS

<u>SECTION</u>	<u>PAGE</u>
I. INTRODUCTION, QUALIFICATIONS, AND RECOMMENDATIONS.....	4

LIST OF ATTACHMENTS

Attachment DRA-1	E3, PSCo Clean Heat Portfolio Analysis Report
Attachment DRA-2	Aas CV

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I. INTRODUCTION, QUALIFICATIONS, AND RECOMMENDATIONS

1 **Q. PLEASE STATE YOUR NAME AND BUSINESS ADDRESS.**

2 A. My name is Daniel R. Aas. My business address is 44 Montgomery Street, Suite
3 1500 San Francisco, CA 94104.

4 **Q. BY WHOM ARE YOU EMPLOYED AND IN WHAT POSITION?**

5 A. I am employed by Energy and Environmental Economics, Inc. (“E3”), as a Director.

6 **Q. ON WHOSE BEHALF ARE YOU TESTIFYING IN THIS PROCEEDING?**

7 A. I am testifying on behalf of Public Service Company of Colorado (the “Company”).

8 **Q. PLEASE SUMMARIZE YOUR QUALIFICATIONS.**

9 A. My qualifications are summarized in Attachment DA-3. I have fifteen years of
10 experience in the energy industry, including six years at E3 where my work has
11 primarily been focused on heating sector decarbonization policy analysis. I have
12 led studies on heating sector decarbonization in California, Colorado, Illinois,
13 Massachusetts, Maryland, Minnesota, New York, Oregon, Pennsylvania, and
14 Washington state. I have submitted testimony on heating sector decarbonization
15 topics to the public utilities commissions of the states of Massachusetts and

1 Maryland. I have a Bachelor of Arts in Economics and Political Science from
2 Whittier College, as well as a Master of Arts in Energy and Resources and a Master
3 of Public Policy from the University of California, Berkeley.

4 **Q. HAVE YOU PREVIOUSLY TESTIFIED BEFORE THE COMMISSION?**

5 A. No.

6 **Q. HAVE YOU TESTIFIED IN FRONT OF ANY OTHER REGULATORY BODIES OR**
7 **COURTS?**

8 A. Yes. I provided testimony before the Massachusetts Department of Public Utilities
9 in Proceeding No. DPU 20-80, the Investigation by the Department of Public
10 Utilities on its own Motion into the role of gas local distribution companies as the
11 Commonwealth achieves its target 2050 climate goals, on behalf of the Joint
12 Massachusetts Local Distribution Companies. I also provided testimony before
13 the Maryland Public Service Commission in Proceeding No. 9692, Application for
14 an Electric and Gas Multi-Year Plan, on behalf of Baltimore Gas and Electric.

15 **Q. WHAT IS THE PURPOSE OF YOUR DIRECT TESTIMONY?**

16 A. The purpose of my Direct Testimony is to provide the Colorado Public Utilities
17 Commission ("Commission") with modeling analysis of the portfolios presented in
18 the Company's Clean Heat Plan.

19 **Q. PLEASE PROVIDE AN OVERVIEW OF THE MODELING WORK YOU**
20 **PERFORMED IN RELATION TO THE COMPANY'S CLEAN HEAT PLAN.**

21 A. E3 was retained to provide modeling analysis in support of the Company's planned
22 Clean Heat Plan Application. I was asked to construct a model to analyze the

1 portfolios presented in the Clean Heat Plan and to present the results of that
2 modeling.

3 **Q. DID YOU PREPARE A REPORT AS PART OF YOUR WORK ON THE CLEAN**
4 **HEAT PLAN APPLICATION?**

5 A. Yes. A copy of a report containing my analysis and a technical appendix is
6 attached to this testimony as Attachment DRA-1.

7 **Q. ARE YOU SPONSORING ANY ATTACHMENTS AS PART OF YOUR DIRECT**
8 **TESTIMONY?**

9 A. Yes, I am sponsoring Attachment DRA-1 through DRA-2, which were prepared by
10 me or under my direct supervision. The attachments are as follows:

- 11 • Attachment DRA-1: E3, PSCo Clean Heat Portfolio Analysis Report; and
- 12 • Attachment DRA-2: Aas CV.

13 **Q. WHAT RECOMMENDATIONS ARE YOU MAKING IN YOUR DIRECT**
14 **TESTIMONY?**

15 A. The Company's recommendations in relation to the modeled Clean Heat portfolios
16 are provided by the Company's other witnesses, as summarized by Company
17 witness Mr. Ihle.

18 **Q. DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

19 A. Yes, it does.