

## American Carbon Registry ACR742 Monitoring Report

**Instructions:** The American Carbon Registry (ACR) requires that a Project Monitoring Report be provided to the verification body at each Project verification. To facilitate this requirement, use of this monitoring report template is required. Please follow all instructions found within each section and provide all requested information. If a field is not applicable, mark it as "N/A". Please sign and save this Monitoring Report as a PDF prior to uploading to the Project page within the ACR registry system. This form must be completed and executed by a duly authorized representative of the Project Proponent.

Section I: Report Completed By		
1	Name	John Tinsley
2	Title	Vice President
3	Organization	Therm Solutions, Inc
4	Phone	(253) 279-0690
5	Email	jtinsley@therm.cool
Section II: Project Information		
1	Project name	Advanced Refrigeration - ARS2021001
2	ACR Project ID#	ACR742
3	ACR account holder	Therm Solutions, Inc
4	Project Proponent	Therm Solutions, Inc
5	Current reporting period (MM/DD/YYYY–MM/DD/YYYY)	10/03/2021-3/25/2022
6	Project start date (MM/DD/YYYY)	10/03/2021
7	Current crediting period (MM/DD/YYYY–MM/DD/YYYY)	10/03/2021-10/02/2031
8	ACR Standard version applied at validation	ACR Standard v7.0
9	Relevant ACR Sector Standard(s) and version(s), if any	N/A
10	ACR-Approved Methodology title and version applied at validation	Advanced Refrigeration Systems Version 2.1
Section III: Project Details		
1	<b>Project Description</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>Provide a brief project description</li> <li>State the total GHG reductions and/or removals during the reporting period covered by this monitoring report</li> </ul> <p>The Project Activity is the installation of new low-GWP refrigerants (R 744/CO2) in large commercial refrigeration racks (units) manufactured by Hillphoenix Inc, and Hussmann, sold by AMF Sales and Associates and Refrigeration Unlimited Inc and then installed at the DeCicco's Bedford NY, ShopRite Matamoros PA, ShopRite North Poughkeepsie NY, and Metropolitan Market Gig Harbor WA supermarkets.</p> <p>Total GHG reductions during the reporting period covered by this monitoring report: 39,881 mtCO2e, 2021 included 33,076 and 2022 included 6,805.</p>	
2	<b>Programmatic Development Approach (PDA) Implementation</b> <i>Instructions (if applicable):</i> <ul style="list-style-type: none"> <li>For a PDA, describe any new cohort(s) added during the reporting period</li> <li>State whether the sites included in additional cohort(s) conform to the project boundaries and baseline criteria established in the initial GHG Project Plan</li> <li>Provide the implementation dates and crediting period dates for the sites in the additional cohort(s)</li> <li>Define the roles and responsibilities for all personnel involved in the inclusion of the new cohort(s)</li> </ul>	

	<ul style="list-style-type: none"> <li>• Provide all necessary information as stipulated in the validated GHG Project Plan to ensure that leakage, additionality, baseline establishment, baseline emissions, and eligibility requirements are met by the additional cohort(s)</li> <li>• Provide a map of each new site added during the reporting period</li> </ul> <p>Not applicable for this project type.</p>
3	<p><b>Project Deviations</b></p> <p><i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• ACR may permit project-specific deviations to an existing approved methodology where they do not negatively impact the conservativeness of an approved methodology's approach to the quantification of GHG emissions reductions and removal enhancements. For instance, where alternate monitoring or measurement regimes are proposed, ACR may permit these changes provided they are conservative. ACR will not permit, on a project-specific basis, changes to requirements related to additionality assessment or baseline establishment.</li> <li>• State the deviation and rationale for the deviation; in the rationale, provide both the necessity of the deviation and demonstration that the deviation is conservative (i.e. will underestimate net GHG reductions/removals).</li> <li>• State whether ACR has formally approved the deviation.</li> </ul> <p>No known deviations.</p>
4	<p><b>Environmental and Community Impacts</b></p> <p><i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• In their GHG Project Plan Projects must prepare and disclose an assessment of its environmental and community risks and impacts (per 8.A of the ACR Standard).</li> <li>• ACR does not require a particular set of criteria or tool be used for impact evaluation. Contributions to UN Sustainable Development Goals or other internationally recognized assessment criteria may be cited. The assessment must describe the safeguard measures in place to avoid, reduce, mitigate, or compensate for potential negative impacts, and how such impacts will be reported, monitored and enforced. The assessment must identify and describe the Sustainable Development Goals (SDG) to which the impacts are aligned and positively contribute.</li> <li>• Please provide confirmations and/or updates, as applicable, to the original assessment including the SDG goals to which the impacts are aligned and positively contribute.</li> </ul> <p>No updates to the original assessment.</p> <ul style="list-style-type: none"> <li>• Project Proponents are required to disclose at each verification any negative environmental and/or community impacts or claims of negative environmental and/or community impacts and the appropriate mitigation measure applied.</li> <li>• Please provide the required environmental and community impact disclosures below, as applicable.</li> </ul> <p>The project has only positive effects on the environment. CO2 refrigerants are installed in sealed systems. The use of CO2 avoids the loss of HFCs during the operation of the large refrigeration racks.</p> <p>Potential negative impacts were considered for this Project and there were not found to be any. The Project also addresses the following aspects of the UN's Sustainable Development Goals:</p> <p>Goal #9 - Industry, Innovation, and Infrastructure: This project fulfills this goal, specifically subsection 9.4, in that the adoption of low-GWP refrigeration systems is a sustainable upgrade with substantially reduced CO<sub>2</sub> emissions per unit of value (in this case food distribution and sale) added. Low-GWP refrigeration systems both reduce emissions from refrigerant leakage (addressed in this project) and reduce emissions from typically lower energy consumption than comparable HFC or HFC/HFO systems.</p> <p>Goal #11 – Sustainable Cities and Communities: This project fulfills Goal #11 by reducing climate-damaging emissions which cause natural disasters. Successfully reducing this emissions at scale, for example through use of low-GWP refrigerants, will help prevent the human and economic losses associated natural disasters.</p>

	<p>Goal #12 - Responsible Consumption and Production: This project fulfills Goal #12 in several ways related to food production. It reduces the material footprint per capita for supermarkets (12.2) by using lower footprint low-GWP refrigerants. It achieves environmentally sound management of chemicals throughout their life cycle (12.4) by using chemicals that are minimally damaging to the climate and local communities when leaked during use and at time of decommissioning. Finally, it fulfills the goal for companies to adopt sustainable practices (12.6).</p> <p>Goal #13 – Climate Action: This project fulfills Goal #13 by taking direct climate action through the choice to use a low-GWP refrigerant. Paul Hawken's <i>Drawdown</i> ranks refrigeration as the #1 global drawdown opportunity, based on the total amount of greenhouse gases it can potentially avoid or remove from the atmosphere. Bill Gates' <i>How to Avoid a Climate Disaster</i> calls F-Gases used in traditional AC and refrigeration "extremely powerful contributors to climate change". This project directly addresses one of our world's most meaningful solutions for climate change.</p>															
<b>Section IV: AFOLU Projects</b>																
<b>1</b>	<p><b>Reversals (Please note that reversals must be reported to ACR as soon as they are discovered per the ACR Risk Mitigation Agreement)</b>  <i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• State whether there have been any intentional or unintentional reversals during the reporting period</li> <li>• If a reversal has occurred, describe the reversal in this section</li> </ul> <p>This section is not applicable for this project type.</p>															
<b>2</b>	<p><b>Project Area</b>  <i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• Provide the total acreage for the end of the reporting period; if the project is stratified, provide the total acreage for each stratum.</li> <li>• If the project area changed since the previous verification, please describe the change and explain why it was necessary.</li> </ul> <p>This section is not applicable for this project type.</p>															
<b>3</b>	<p><b>Carbon Pools</b>  <i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• Populate the below table with the total tCO<sub>2</sub>e for each applicable carbon pool (adding rows as needed for additional relevant carbon pools)</li> </ul> <table border="1"> <thead> <tr> <th>Carbon Pool</th><th>Start of Reporting Period (total tCO<sub>2</sub>e)</th><th>End of Reporting Period (total tCO<sub>2</sub>e)</th></tr> </thead> <tbody> <tr> <td>Live Biomass</td><td>NA</td><td>NA</td></tr> <tr> <td>Dead Biomass</td><td>NA</td><td>NA</td></tr> <tr> <td>Soil</td><td>NA</td><td>NA</td></tr> <tr> <td>Harvested Wood Products (current reporting period)</td><td></td><td>NA</td></tr> </tbody> </table> <p>This section is not applicable for this project type.</p>	Carbon Pool	Start of Reporting Period (total tCO <sub>2</sub> e)	End of Reporting Period (total tCO <sub>2</sub> e)	Live Biomass	NA	NA	Dead Biomass	NA	NA	Soil	NA	NA	Harvested Wood Products (current reporting period)		NA
Carbon Pool	Start of Reporting Period (total tCO <sub>2</sub> e)	End of Reporting Period (total tCO <sub>2</sub> e)														
Live Biomass	NA	NA														
Dead Biomass	NA	NA														
Soil	NA	NA														
Harvested Wood Products (current reporting period)		NA														
<b>4</b>	<p><b>Inventory</b>  <i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• State whether the project is using the original inventory</li> </ul>															

	<ul style="list-style-type: none"> <li>Describe any changes to the original inventory methodology since the last verification, if applicable</li> <li>For new inventory plots that were re-measured, list the updated confidence statistic and deduction percentage, if applicable</li> <li>If new plots were added to inventory, please provide an updated map showing plot locations and describe how plot locations were determined.</li> </ul> <p>This section is not applicable for this project type.</p>
<b>Section V: Project Monitoring</b>	
<b>1</b>	<b>Parameters Monitored/Modeled</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>Populate the table below with each parameter monitored during the reporting period (attaching tables for each parameter as necessary). Validated modeled parameters should also be reported using the below table.</li> </ul>

<b>Parameter</b>	$Q_{BR,j,i}$
<b>Units</b>	kg
<b>Description</b>	Quantity of refrigerant j in equipment i used in baseline system (charge size of equipment in kgs). Other than for Large Commercial Refrigeration projects where an existing system is being replaced, use the Refrigerant Charge size default values in Table 4. For Large Commercial Refrigeration projects where existing equipment is being replaced, use regulatory compliance reporting or verifiable historical operating records to establish the charge size of the replaced baseline systems.
<b>Methodology Section</b>	For each location new system design cooling capacity (system specifications) and charge size assumption is assigned as specified in Table 4 of the Methodology
<b>Equation #(s)</b>	Equation 1
<b>Source of Data</b>	Calculated from new system design cooling capacity (system specifications) and charge size assumption (specified in Table 4)
<b>Measurement Frequency</b>	Determined once

<b>Parameter</b>	$AR_{k,i}$
<b>Units</b>	kg
<b>Description</b>	Quantity of alternative refrigerant k used in project system i.
<b>Methodology Section</b>	Charge size x # of units

<b>Equation #(s)</b>	Equation 2
<b>Source of Data</b>	Certified charge size documentation from refrigeration contractor
<b>Measurement Frequency</b>	Determined once

<b>Parameter</b>	$ERA_{REF,j}$
<b>Units</b>	% per year
<b>Description</b>	Annual amortized emission rate of refrigerant j in baseline system (%).
<b>Methodology Section</b>	Table 4 of Methodology
<b>Equation #(s)</b>	Equation 1
<b>Source of Data</b>	Table 4 - Annual Amortized Emission Rate
<b>Measurement Frequency</b>	Determined once

<b>Parameter</b>	$GWP_{REF,j}$
<b>Units</b>	Global Warming Potential (GWP)
<b>Description</b>	GWP of refrigerant j used in baseline system.
<b>Methodology Section</b>	Table 6 of Methodology
<b>Equation #(s)</b>	1
<b>Source of Data</b>	GWP default values in Table 6
<b>Measurement Frequency</b>	Determined once

<b>Parameter</b>	$ERA_{REF,k}$
<b>Units</b>	% per year
<b>Description</b>	Annual emission rate of alternative refrigerant k used in project system
<b>Methodology Section</b>	Table 4 of Methodology
<b>Equation #(s)</b>	2

<b>Source of Data</b>	Set equal to the emission rate of the baseline system.
<b>Measurement Frequency</b>	Determined once

<b>Parameter</b>	$GWP_{REF,k}$
<b>Units</b>	Global Warming Potential (GWP)
<b>Description</b>	GWP of alternative refrigerant k used in project system.
<b>Methodology Section</b>	Table 4 of methodology
<b>Equation #(s)</b>	2
<b>Source of Data</b>	IPCC, published governmental reference (e.g., EPA SNAP) or scientific, peer reviewed publication
<b>Measurement Frequency</b>	Determined once

<b>2</b>	<p><b>Monitoring Plan</b>  <i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• Provide the personnel names and roles/responsibilities for each party involved in monitoring the offset project</li> <li>• Provide a description of the GHG management system employed including: <ul style="list-style-type: none"> <li>◦ The location and recordkeeping/retention requirements for all stored data</li> <li>◦ Methods used to generate data</li> <li>◦ Transfer points and methods of non-automated transfer of data</li> </ul> </li> <li>• If applicable, describe any calibration procedures and the frequency with which calibration and other maintenance requirements are performed</li> <li>• Describe the internal audit and other quality assurance/quality control procedures</li> <li>• Sampling methods utilized and performed during the reporting period</li> </ul> <p><b>Therm – Project Proponent</b></p> <p>Therm is a registered Project Proponent with the ACR. Therm focuses on refrigeration and related projects.</p> <p>Contact Information:  Contact: John Tinsley  Address: 170 S Poplar Rd Lake Forest, IL 60045  Phone: (253) 279-0690  Website: <a href="http://www.therm.cool">www.therm.cool</a></p> <p><b>AMF Sales - Equipment Manufacturer's Representative</b></p> <p>AMF Sales is a registered Hill Phoenix Representative. Hill Phoenix is a leading manufacturer of refrigeration equipment in the US. Based in Conyers, GA, Hill Phoenix is a division of Dover Corp.</p>
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and AMF Corp. represents Hill Phoenix in the Northeast region of the US, providing sales, engineering, and customer service support for customers.

Contact information:

Contact: Brian Cleary

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#### ***Refrigeration Unlimited Inc - Equipment Manufacturer's Representative***

Refrigeration Unlimited is a registered Hussmann Representative. Hussmann is a leading manufacturer of refrigeration equipment in the US, based in Bridgeton, MO. Refrigeration Unlimited represents Hussmann providing sales, engineering, and customer service support for customers.

Contact information:

Contact: Shelby Powell

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Phone: 253-474-4039

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Website: <https://www.ru-inc.com>

#### ***a) Project Implementation***

AMF Sales and Associates and Refrigeration Unlimited Inc design systems and ship materials to installation locations. Contracted refrigeration contractors then install the specified systems at the supermarket and fill the systems with the new low-GWP refrigerant, conduct start up and system commissioning.

#### ***b) Technical Description of the Monitoring Task***

Monitoring is conducted exclusively through review of official documents identifying data outlined in section c) as well as photos confirming systems were installed where specified. Due to the complex and dispersed nature of these systems, documentation provides the most reliable form of monitoring.

#### ***c) Data to be monitored and collected***

The following data requires monitoring for this project. Once obtained, this information provides the required metrics to calculate Baseline Emissions (Equation 1), Project Emissions (Equation 2), and Project Emissions Reductions (Equation 3):

- Project system cooling capacity - Project system cooling capacity is specified by design documents created during system design. Installed systems are then validated via purchase, shipping, and commissioning records. Additional validation occurs via photos of the installed systems.
- Alternative refrigerant charge size - Project system charge size is determined by charge and purchase records created during initial installation of the refrigeration systems.
- Location sold to - Location sold to is determined by purchase and shipping records.

	<ul style="list-style-type: none"> <li>· System operational date - System operational date is determined by publicly-available store opening dates.</li> </ul> <p>All other data is determined as outlined in Section V1.</p> <p><b>d) Overview of data collection procedures</b></p> <p>Data will be collected via data requests from the system manufacturer, supermarket owners, and installation contractors. These requests are fulfilled via email or other digital document sharing methods. Data is transferred manually as requested.</p> <p><b>e) Frequency of the Monitoring</b></p> <p>Monitoring will be conducted once at a date after the opening date for the final supermarket included in this project plan.</p> <p><b>f) Quality Control and Quality Assurance Procedures</b></p> <p>Quality control and quality assurance are conducted by cross-referencing multiple forms of documentation with confirming information and further by photographs of installed equipment.</p> <p><b>g) Data archiving</b></p> <p>Records showing the systems were filled with CO2 are maintained on file by DeCicco &amp; Sons, Shop-Rite Supermarkets Inc, and Metropolitan Market, as required by the EPA. All owners use digital recordkeeping systems for data storage. All owners use digital recordkeeping systems for data storage and Therm keeps a digital copy of these records indefinitely.</p> <p><b>h) Organization and Responsibilities of the Parties Involved in the Above</b></p> <p>Therm Solutions – Project Proponent and Developer. Therm works with customers to successfully manage the refrigerant transition process. John Tinsley – Vice President leads the Project.</p> <p>AMF Sales/Hill Phoenix - AMF Sales acts as representative for Hill Phoenix, the manufacturer of refrigeration systems. AMF provides all specifications and data as required by the monitoring plan.</p> <p>Refrigeration Unlimited/Husmann – Refrigeration Unlimited acts as representative for Husmann, the manufacturer of refrigeration systems. Refrigeration Unlimited provides all specifications and data as required by the monitoring plan.</p> <p><b>i) Calibration Procedures</b></p> <p>Calibration is not applicable for this project type. While routine maintenance is performed on the new systems and refrigerant leakage is monitored, that data is irrelevant to the calculations associated with the project.</p>
<b>Section VI: GHG Emission Reductions and Removals</b>	
1	<p><b>Baseline Emissions</b></p> <p><i>Instructions:</i></p> <ul style="list-style-type: none"> <li>• Provide a summary calculation of baseline emissions; attach as an appendix, a spreadsheet documenting baseline emissions quantification</li> </ul> <p>See below "Appendix A"</p>



2	<b>Project Emissions</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>Provide a summary calculation of project emissions; attach as an appendix, a spreadsheet documenting project emissions quantification</li> </ul> <p>See below "Appendix A"</p>
3	<b>Leakage Emissions</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>If applicable, provide a summary calculation of leakage emissions; attach as an appendix, a spreadsheet documenting leakage emissions quantification</li> </ul> <p>Per Methodology Section 4.3, leakage can be disregarded for this methodology.</p>
4	<b>Buffer Pool Contribution (For AFOLU and other sequestration projects only)</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>Provide a summary calculation of the buffer pool calculation; attach as an appendix, a spreadsheet documenting buffer pool quantification</li> </ul> <p>AFOLU not applicable for this project</p>
5	<b>Net GHG Emission Reductions/Removals</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>State the net GHG emission reductions; provide a summary calculation showing the net GHG emission reduction/removal calculation as required by the relevant methodology</li> </ul> <p>See below "Appendix A"</p>
6	<b>Removals</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>If calculating removals according to an approved methodology as a separate issuance record, state the total removals for the reporting period; provide the allocation of removals to vintages, if applicable; provide a summary calculation showing the removal calculation as required by the relevant methodology</li> </ul> <p>Not applicable for this project.</p>
<b>Section VII: Previous Reporting</b>	
1	<b>Updates to previous reporting periods</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>State whether there are any details and/or data that needs to be clarified from a previous reporting period</li> <li>Describe the revision(s)</li> </ul> <p>No updates.</p>
<b>Section VIII: Verification</b>	
1	<b>Verification</b> <i>Instructions:</i> <ul style="list-style-type: none"> <li>State whether the project is undergoing a full site visit verification or a desk review</li> <li>State the date of the last full site visit verification</li> <li>Provide the name of the verification body for this reporting period</li> <li>State the number of consecutive years the verification body has verified the project</li> </ul> <ul style="list-style-type: none"> <li>❖ This project has undergone 2 site verifications. Site locations were verified as part of this site verification.</li> <li>❖ Last full site visit verification performed on 07/13/2022 &amp; 8/10/22</li> <li>❖ Verification Body: First Environment, Inc, 10 Park Ave Bldg 1A, Suite 504, Butler, NJ 07405</li> <li>❖ Due to the extreme permanence of this project, the verification body conducted 2 verification site visits.</li> </ul>
<b>Section IX: Required Attestations</b>	

<b>The Project Proponent hereby represents and warrants to the American Carbon Registry, its affiliates and supporting organizations and any assignee of substantially all of the assets comprising the ACR that:</b>	
1	<p><i>The project maintained regulatory compliance by completing all regulatory requirements at required intervals – answer YES or NO:</i></p> <p>Yes</p> <p><i>If <b>No</b>, all violations or other instances of noncompliance with laws, regulations, or other legally binding mandates directly related to project activities are listed below, along with a statement of whether all regulatory requirements were completed at required intervals:</i></p>
2	<p><i>At no time during or since the development of the Project have there been any undisclosed or unmitigated adverse environmental or community impacts as a result of the development, construction, operation and/or maintenance of the Project</i></p>
3	<p><i>Any comments that were received from stakeholders regarding environmental or community impacts during the development, construction, operation and/or maintenance of the Project have been addressed, and when necessary response actions have been implemented by the Project Proponent, and a true and accurate summary of any and all such communications/actions is attached hereto (as available).</i></p>
4	<p><i>The ACR Account Holder under which the project is listed is authorized to register and transact the verified emissions reductions ("VERs") generated or to be generated by the Project, and to the best knowledge of the representing party, there are no competing claims to such authority.</i></p>
5	<p><i>Neither such VERs nor any underlying emissions reductions/removals and/or greenhouse gas attributes to be registered on the ACR have been listed, reported, registered, verified, issued, retired, or otherwise transacted on ACR, another registry, and/or under another standard or program.</i></p>
6	<p><i>Neither such VERs nor any underlying emissions reductions/removals and/or greenhouse gas attributes to be registered on the ACR have been transferred, retired or otherwise used or disposed of prior to the date hereof, other than as duly recorded in the ACR.</i></p>
7	<p><i>All information and attestations provided in this Monitoring Report are accurate to the best of their knowledge, and they further agree to notify ACR promptly in the event that the Project Proponent becomes aware that any representation or warranty set forth above was not true when made.</i></p>
<p> <i>x</i> <u><i>John Tinsley</i></u>  Project Proponent Signature </p> <p> Name: John Tinsley  Title: Vice President  Date: 9/29/22 </p>	

**ACR Project Number**  
**Refrigerant**

ACR742  
R-744 (CO2)

[illegible]

## Cooling Capacity Calculations



BASELINE						RETROFIT PROJECT				
Project No	State	Country	Refrigerant	Refrigerant Charge (lb)	Documented 2-Year Average Refrigerant Leakage (%)	Retrofit In-Service Date	Retrofit Year	Cooling Capacity (kBtu/h)	Refrigerant	Refrigerant Charge (lb)
ShopRite Matamoras PA	PA	USA	ARS ASSUMPTION	5005.5	26%	11/7/21	2021	1,957.3	R-744 (CO2)	1,800
ShopRite North Poughkeepsie NY	NY	USA	ARS ASSUMPTION	4628.6	26%	10/3/21	2021	1,809.9	R-744 (CO2)	1,500
Decicco & Sons Bedford NY	NY	USA	ARS ASSUMPTION	3039.9	26%	3/25/22	2022	1,188.7	R-744 (CO2)	1,000
Metropolitan Market Gig Harbor WA	WA	USA	ARS ASSUMPTION	2509.0	26%	10/7/21	2021	981.1	R-744 (CO2)	1,200

Emission Reduction by Year	Total
2021	33076
2022	6805
Report Period Total (m.t. CO2e)	39881