

Home Energy Assessment with ARUS Consulting

Your Vision, Our Expertise: Transforming Houses into Homes



Parker Lahti

- President and Owner of ARUS Consulting
- Two decades of experience in the field of Building Science
- Over 5,500 Assessments
- Founded ARUS Consulting in 2017
- Started Blue Sky Training in 2023





Chance Bertolami

- Chance Bertolami is our Field Team Manager.
- Chance is responsible for onboarding new ARUS assessors as well as managing our current ARUS field assessor team.
 - He also provides support to the EW program through QC/QA inspections for retrofits done through the program.
 - Conducts in field assessments all over the state of Colorado.



OUR MISSION



Education & Expertise

Equipping clients with comprehensive energy energy efficiency knowledge and insights from from our certified experts.



Tailored Solutions

Providing clients with personalized energyenergy-saving strategies and recommendations recommendations to meet their unique needs. needs.



Unwavering Support

Guiding clients throughout their energy-saving saving journeys, from assessments to implementation and beyond.

By empowering our clients with education, expertise, and ongoing support, ARUS dedicated to positively impacting communities through energy efficiency.



Goal-Driven Assessment Process

- Advisor acts as a guide
- From an Idea to Installation

The idea may be as simple as a cold room



Assessment Process

- Interview Customer
- Collect Home Data
- Compile Findings
- Identify Incentives

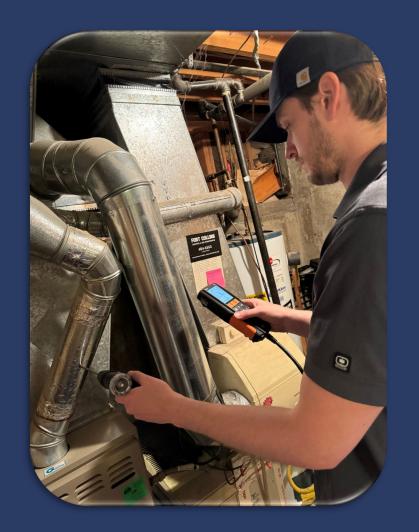


Blower Door Testing



Full Spectrum CAZ Testing

- Carbon Monoxide Testing
- Draft Pressure
- Static Pressure Testing
- Ambient CO Monitoring





Scope of Services



Comprehensive energy assessments



Rebate and incentive



In depth advising sessions



Home Energy Scores and Re-Scores Scores

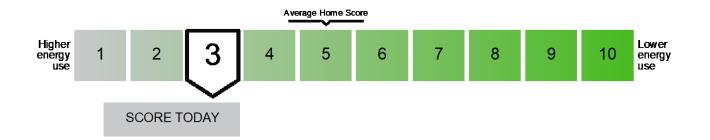
ARUS Consulting delivers comprehensive residential energy services to help homeowners improve comfort, save reduce their environmental impact.



Home Energy Score

225 Whedbee St SCORE Collins CO 80524 TODAY Fort Collins CO 80524 TODAY

YEAR BUILT: 1900 CONDITIONED FLOOR AREA: 1,692 FT2



The U.S. Department of Energy's Home Energy Score assesses the energy efficiency of a home based on its structure and heating, cooling, and hot water systems. For more information visit HomeEnergyScore.gov.

ASSESSMENT: Initial | Aug 24, 2023 | ID# 439721



An Unbiased Third Party: Building Trust and Accountability

Professionalism and Meticulousness

ARUS Consulting's unwavering commitment to professionalism and and meticulous execution of its services builds trust with clients.

Effective Communication

The company's dedication to clear, transparent, and responsive communication allows clients to feel feel informed and confident throughout the process.

Extensive Expertise

ARUS Consulting's team of certified certified experts in BPI standards and and the DOE's Home Energy Score brings unparalleled knowledge to every every project.

Proven Track Record

The company's outstanding success in success in energy efficiency programs, programs, such as Efficiency Works, Works, demonstrates our capabilities capabilities

We Are Not Salesmen

By communicating to the homeowner that ARUS does not not make money off any retrofits they decide to move forward with, it helps to demonstrate we are there to truly truly help the customer make the best decision for their their home.



Customer Information:

Poling Chan	Heat fuel:	NG	Auditor: (Chance Bertolami
2800 Claremont Dr	DHW fuel:	NG	Phone #	(970) 966-3205
Fort Collins, CO 80526	CFM ₅₀	1,850]	
1/31/2024	ACH ₅₀	6.6	VOLUME	16,713
970-481-7397	нні	#VALUE!	Btu's/ft²/HDD65	
poling_chan@hotmail.com	COOLING	#VALUE!	Btu's/ft²/CDD65	

Measure	Qty.	unit	\$/unit	TOTAL	REBATE
Exterior Top Plates	77	lineal ft.	\$ 7.83	\$ 602.91	\$ -
Attic Vacuum (full)	1349	sq. ft.	\$ 1.48	\$ 1,996.52	\$ -
Attic Air Sealing	1349	sq. ft.	\$ 0.62	\$ 836.38	\$ -
Insulate Flat Attic R-60	1349	sq. ft.	\$ 2.66	\$ 3,588.34	\$ 1,038.73
Seal recessed lights (top hat)	5	each	\$ 32.00	\$ 160.00	\$ -
Attic Hatch & Dam	1	each	\$ 403.00	\$ 403.00	\$ -
Drywall repair (firetape)	28.5	sq. ft.	\$ 20.12	\$ 573.42	\$ -
Cantilevered Floor Dense Pack (less than 1.5 feet from ground, remove siding)	12	sq. ft.	\$ 16.90	\$ 202.80	\$ 13.92
Seal Garage to House Air Leaks	1	each	\$ 268.00	\$ 268.00	\$ -
Spray Foam Crawl Space Rim Joists	154	lineal ft.	\$ 7.37	\$ 1,134.98	\$ 178.64
Insulate Crawl Space Walls	1337	sq. ft.	\$ 7.37	\$ 9,853.69	\$ 1,550.92
Install Moisture/Soil Gas Barrier in Crawl Space	1337	sq. ft.	\$ 1.73	\$ 2,313.01	\$ -
Glue Moisture/Soil Gas Barrier to Stem Walls (per lineal foot)	154	lineal ft.	\$ 0.67	\$ 103.18	\$ -
Remove Batt Insulation from Crawl Space Walls	539	sq. ft.	\$ 1.48	\$ 797.72	\$ -
Duct sealing (high priority if bsmt or crawl depressurize)	1	each	\$ 201.00	\$ 201.00	\$ -
					\$ -
					\$ -
			Totals:	\$ 23,034.95	\$ 2,782.21

Total Job Cost: \$ 23,034.95

Applied Instant Rebate: \$ 2,782.21

Total Paid by Homeowner (loan or cash): \$ 20,252.74

Contractor Notes:

- Contractor Bidding Assistance

SEPARATE BASE COST FROM ADD-ONS

DETAILED BREAKDOWN OF SCOPE OF WORK

EVIDENCE-BASED UPGRADE RECOMMENDATIONS

SIDE BY SIDE COMPARISON WITH MULTIPLE CONTRACTOR BIDS



Tech data sheets

- Our assessors generate a "Tech Data Sheet" once the initial assessment has been completed.
- This data sheet details multiple measurements ranging from ACH-50, exact square footages of the home, cubic volume, insulation values, etc. This sheet contains over 100 different data points.
- This data sheet serves as a valuable resource to contractors doing energy retrofits for the customer.

The Tech Data Sheet is attached to every report we send the customer

Audit Data

This information is provided as a technical resource for professionals as energy improvements are completed on your home. The numbers may not be meaningful to you but they can be helpful to contractors performing energy efficiency upgrades in your home. Testing is required before and after many energy improvements. Please make this sheet available to contractors

penoirmig energy impic	vernents.						
Homeowner Name(s)	Emily			Francis		Audit Type	EPIC Stream
Address	2437 Crabtree Dr F		Fort Collins		co	80521	
Green Building Reg.#	CO10145667	Primary	Heating Fuel	NG		DHW Fuel	NG
		Price					
	970-769-6446	Certification #	448344	Secondary Heating Fuel		None	
Primary Email	egfrancie@gm	nail.com					
Home Description:							
Year Built	1966	57	Years old		Remodel 1		
Audit Date	10/31/2023	Inside Temp	70	Outside Temp		55	
Audit Time	9:00 AM						
House Faces	North		10.5	iiliclicanccy Kii62	likles		
Advisor Name	Chance Berto	ami	Email	chanceb@aru	usconsulting.c	om	
Advisor Phone	(970) 966-3205						
Building Description							

Bedrooms	5	Floors	s above grade	2.0	n-factor (xcel energy front range)	11.282		
Occupants	2	Conditioned Area 2		2,723	Estimated Volume	23,383		
Abv. Grade Floor SF	1,599	Average Above Gr. Ceiling Hgt. 8.		8.0	Crawl Area	0		
Basement Area	676	Basement Ceiling Hgt. 8.		8.0	Crawl Height	0.0		
Slab-on-grade Area	448	Stab-on-grade Ceiling Hgt. 8.		8.0	Crawl Wall Perimeter LF	0		
Papearn Ceilings	No	Floor Over Garage Area 0		0	Crawl Type	None		
Total ceiling area	1,176	Accessible Cant Floor Area 5		52	Knee Wall Area 1	75		
Flat Attic Area	1,176	Vault Area (Cathedral) 0		0	Vault Pitch (x/12)	0.0		
Exterior Top Plate LF	87	Scissor Truss Area 0		0	Scissor Ceiling Pitch (x/12)	0.0		
Scissor Truss ETP LF	0	Skylight Shaft Wall Area 0		0	Accessible Basement R im Joist SF	0		
Balthrooms over garage	0	Garage walks common to house (LF)		0	Returns over garage	0		
Knee Wall Area 2	0	Knee Wall Area 3		0	Cant Floor (drop soffit)	0		
Building Length		Building Width			Cant Floor Area (-1.5')	0		
Building Air Tightness Testing								
CFM₅ ₅₀	1,960	0	ACH ₅₀	5.0	XCEL ACH _N	0.45		
Blower Door Location	Front	Teamps chareachest christal	Baseline		CFM _{Se} /FT ² Floor Area	0.72		

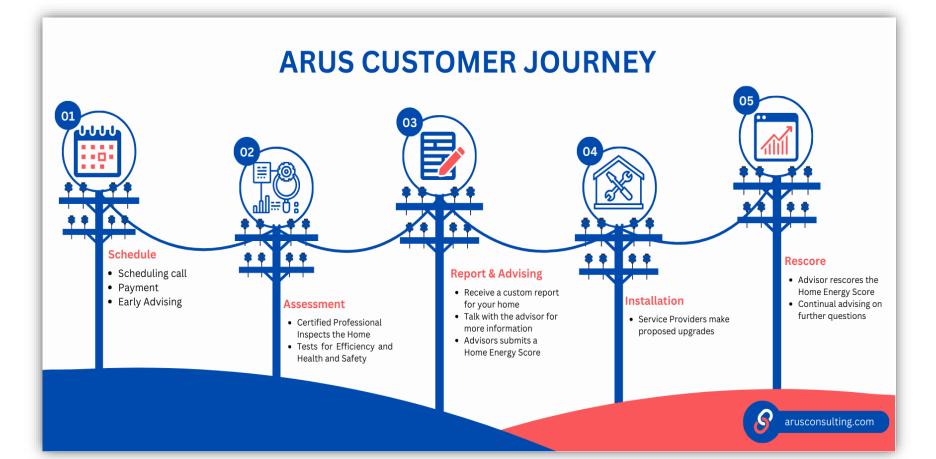
1.1 Sq. Feet

12.5 by 12.5 inch square hole

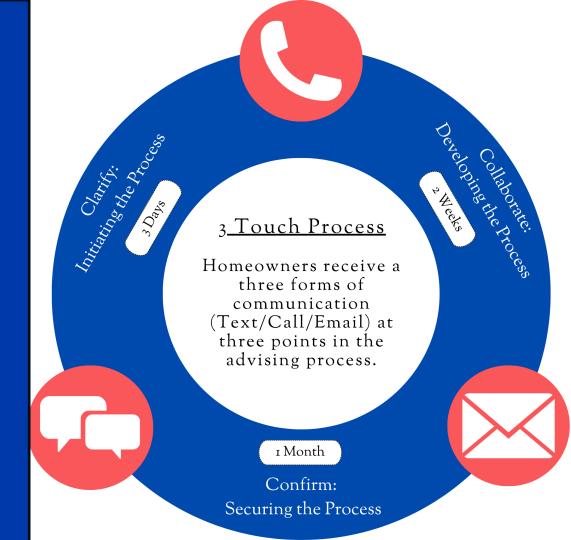
Advanced Pressure Diagnostics (open-a-door)								
Garage	(41)	C	FM w/ door to :	jarage open.	2,486	Garage	Attached	
CFM _{III} House/Garage	292		CFM ₅₀ Zo	me/OUTSIDE	783			
CFM _{SI} Reduction Available	257	PERCEN	TAGE OF TOTA	L LEAKAGE	13%			
Recommended								
Actions	Interface between house and garage must be air sealed.							
Pressure Diagnostics								
Notes								
FLA	262	Sa Inches	1.8	Sa Feet	16 2 by 16 2 i	nch square h	ole	

156 Sq. Inches





Comprehensive Customer Communication



What about after work has been done?



Inspection

- QC inspector examines work compared to PRPA standards
- Inspector performs efficiency and safety inspections with blower door

Streamlined Report

- Based on advisor report, Homeowner decides to move forward with retrofit work
- Contractors finish work and PIV process begins



Preparation

- Quality Control (QC) Inspector obtains documentation
- Inspector Reviews work completed compared to desired goal





Reporting

- After field inspections, QC lead reports on findings
- Inspector details any contractor corrections



Validation

- Desired performance validated compared to results
- Any Contractor corrections completed to meet standards



How does all of this help the Homeowner?

Our assessors take the stress out of the energy retrofit process.

Our data helps guide contractors to make the most quality install possible.

In depth advising sessions ensure the homeowner is educating on best practices for the home.

Just A Roof?





The Interconnected House



Examples:





Dirt Floor Crawl Space

Radon Mitigation/Crawl Space Insulation

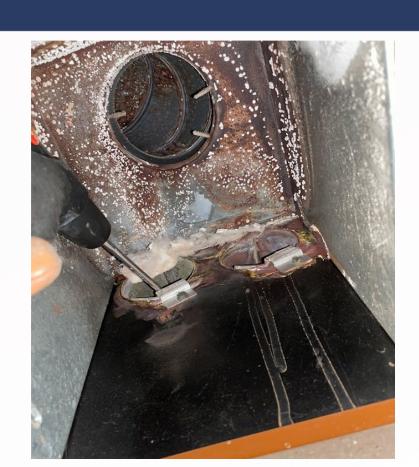
Attic Air Sealing/Insulation



Health and Safety Examples:



Unsafe and Inefficient Appliances



Questions/ Response



970-660-3464



efficiency works@arus consulting.com



Arusconsulting.com



blueskytraining.com

