

# 2025

## ANNUAL TRAINING CONFERENCE

SEPTEMBER 22 – 26 | CHICAGO, IL

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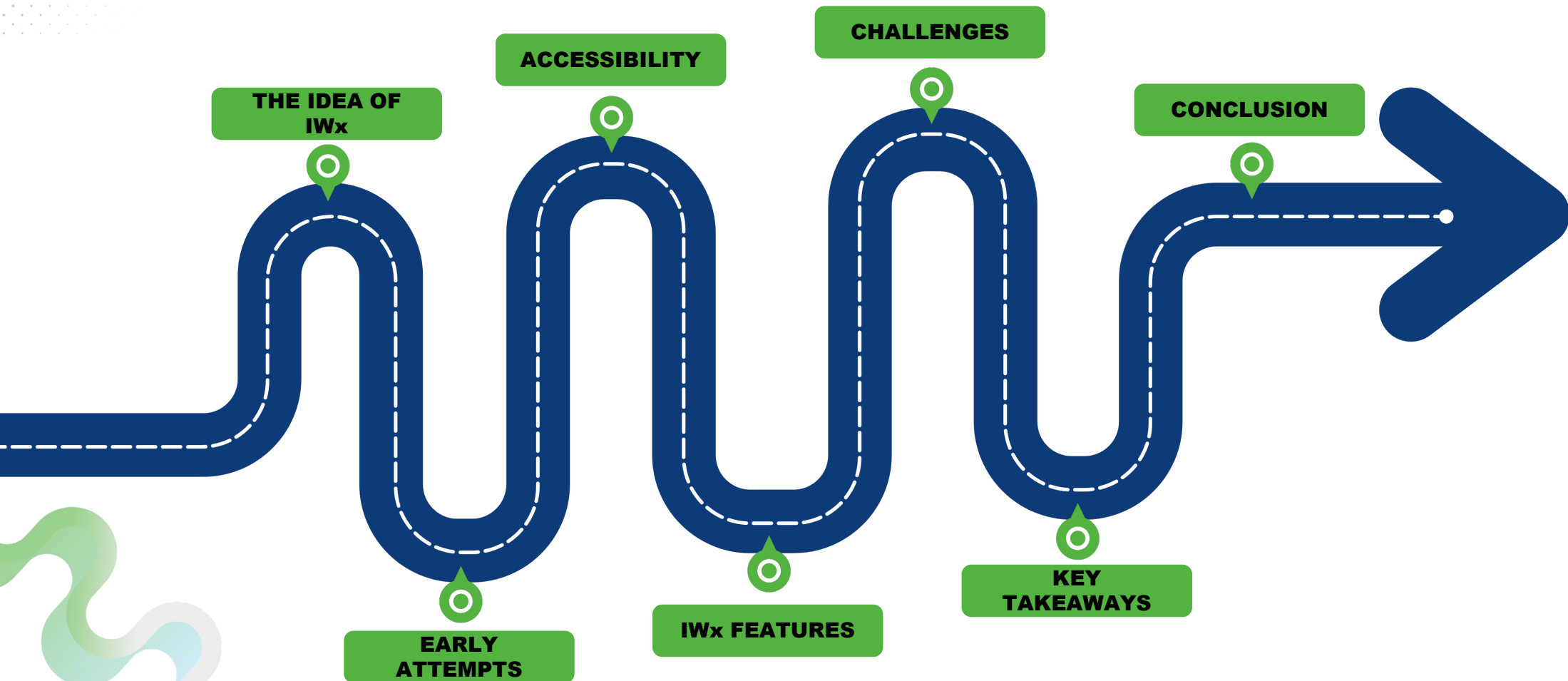
FROM PAPERLESS TO  
POWERFUL: IWx ENERGY  
MODELING SYSTEM

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*"Amplifying Our Impact"*



# FROM PAPERLESS TO POWERFUL: IWx ENERGY MODELING SYSTEM





**MICK PRINCE**

**WEATHERIZATION PROGRAM MANAGER**

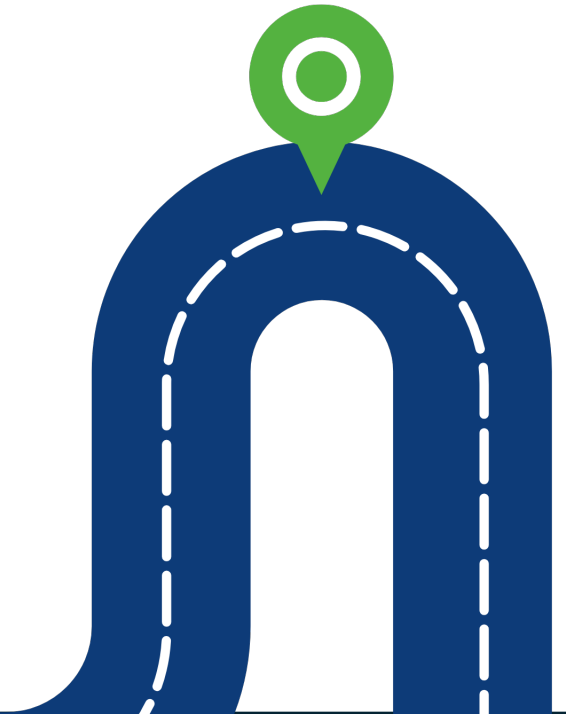


- Started in energy efficiency as a crew leader at a local agency
- Moved on to the state level as a technical training specialist
- Now works as the State Manager for the Illinois Weatherization Program



## THE IDEA OF IWx

- Weatherworks
  - Custom system
  - Electronic audit
  - Built in 1999-2001
- IWx was an update to an existing system
- Amy Park
  - Weatherization Systems Requirement Document
  - 2010
    - Coincided with release of iPad





Site Manager - 2021-621-632-60 - 4729 N Kildare Ave Chicago, IL 60630-4013

Program Year: [Dropdown]

Applications | Assessment | Inspection & Cost Reporting | Reports | Historical Dates

Application Date: 10/26/2019 | Group Code: 1 | Priority: 1

Street Address: 4729 N Kildare Ave

Street Address 2 (Lot Number): [Empty]

City: Chicago | ZIP: 60630-4013

County: Chicago | Township: [Empty]

Comp. Dist: IL House | IL Senate: [Empty]

Verify Address: [Empty] | Site Owner: [Empty]

Building Type: 2-4 Units | Initial Site: Romanian American Community Ctr

Energy Types:

Name	FEIN	Regulated	Account Number	Fuel Type	Disconnect	Bills
Heating Fuel: PEOPLES GAS LIGHT AND C	361612900-00	[X]	061077628700002	1 - Natural G	[X]	Enter
Electric: COMMONWEALTH EDISON	360938600-00	[X]	5188037037	4 - Electricity	[X]	Enter

Site Dates: Description | Date  
Created: 11/14/2019  
Approved: 01/15/2020

Site Status: Pending [X] Approved [X] Denied [X]  
Eligible Due To 50% Rule [X]

Pending: 0.00  
Approved: 66.67  
Denied: 33.33

List Of Units: 3 | Eligible Units: 2 | Vacant: 1

Unit Name	Status	Vacant	Ap
1 4729 N Kildare Ave/1st F Denied	[X]	[X]	Monic
2 4729 N Kildare Ave/2nd Approved	[X]	[X]	Aunor
3 4729 N Kildare Ave/3rd Approved	[X]	[X]	Aunor

Buttons: Print | New Site | Save | Cancel | Return To Search

## ATTEMPTS TO REPLACE WEATHERWORKS

- **2012: RFP**
  - “Too expensive” (\$4 million)
- **2017: ISAC**
  - 1-Year Contract
  - Decided not to renew
- **2020: University of Illinois**
  - No IT Project Manager
- **2021: Oracle Platform, Apex IT**



## ACCESSIBILITY

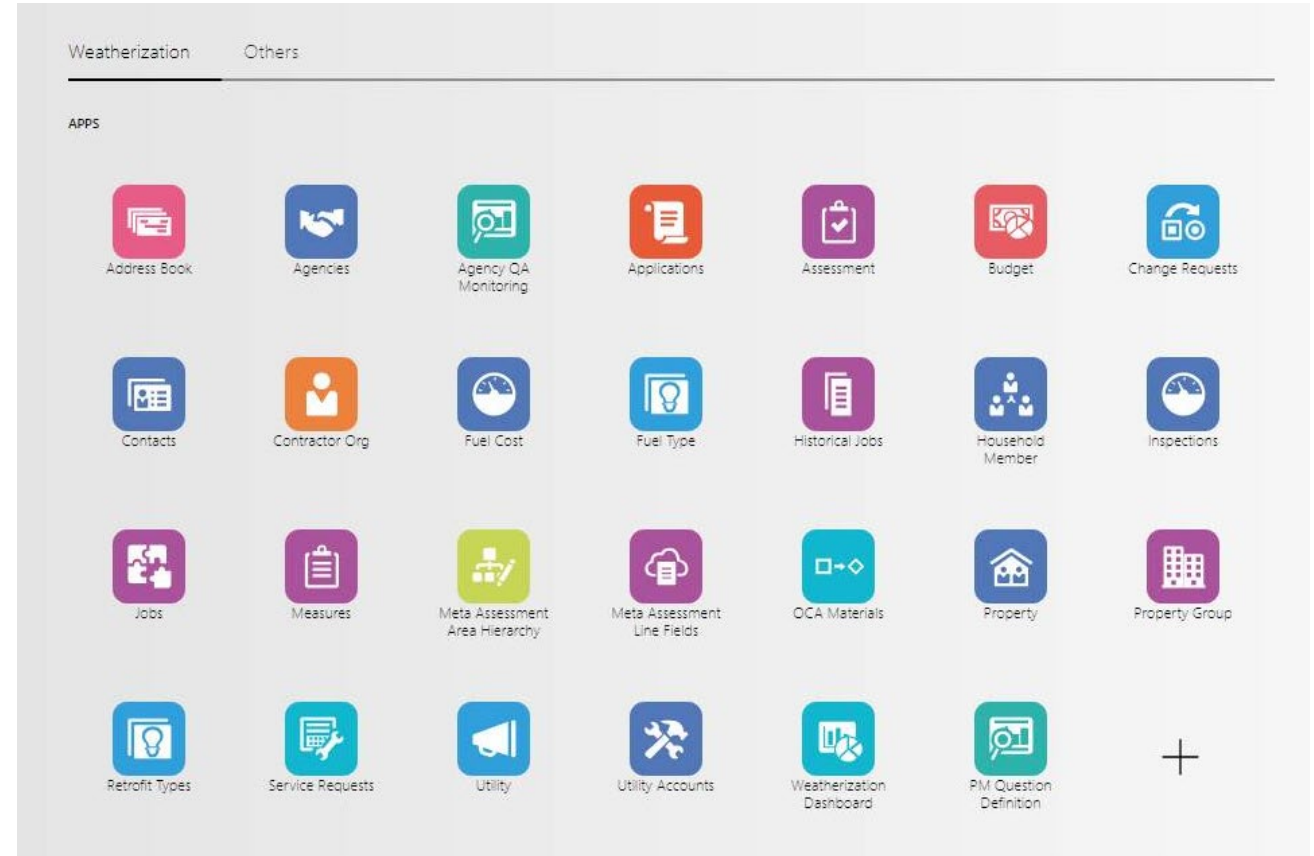
- Wanted the application to be available to everyone
  - Do it yourself, online
  - In-person or phone call no longer *required* to apply for weatherization
- Intake sites still available for those who want them
- 1/3 of applications now completed online





# IWx FEATURES

- **Development Phase**
  - Pre-Application/Application
  - Assessment
  - Catalogs
  - Scope of Work
  - Inspections
  - Call Backs
  - Change Orders
  - Quality Assurance Monitoring
  - Programmatic Monitoring



# PRE-APPLICATION/APPLICATION

- Pre-application:
  - Minimal information
  - Prioritize clients into online waiting list
- We only ask for full applications from the number of clients we predict to serve in a year
  - Plus a few extra in the event of deferrals
- From there, the application gets approved
  - Someone goes in and verifies that all the application information and all the documents are correct and accurate
  - The system will assist by looking at a categorical eligibility like income thresholds

Two screenshots of the State of Illinois Community Services application system. The top screenshot shows the 'Introduction [Pre-Application]' screen for service request 0000203351. It includes a sidebar with navigation options (Summary, Applications, Interview, Messages) and a main content area with a progress bar showing 'Introduction [Pre-Application]' as the current step. The main content area contains a welcome message and a 'Next' button. The bottom screenshot shows the 'Utility Information [Full Application]' screen for service request 0000275514. It includes a sidebar with navigation options (Summary, Applications, Interview, Messages) and a main content area with a progress bar showing 'Utility Information [Full Application]' as the current step. The main content area contains a message about providing utility information and a 'Next' button.



# CATALOGS

Materials & Catalog Management

Manage Catalogs

test Partner 2

Master Catalog

Contractor Catalog

Create Agency Catalog for 2024

Agency Catalog is not defined for the current program year. Do you want to create a new Agency Catalog?

Catalog Name: test Partner 2 - 2024

Create Cancel

Materials & Catalog Management

Manage LAA Materials Project NOW, Inc.

Name Project NOW, Inc. - 2024

Manage Catalogs | Materials | Generate Tasks | View Tasks | Manage Packages

OCA Status: Select Agency Enabled: ☒ Material Type: Select Reset

Search

OCA Status	Agency Enabled	Materials	Default Material Cost	Default Labor Cost	Default Prevailing Wage	UCM	Material Type	Start Date	End Date	Action
Active	<input checked="" type="checkbox"/>	Attic Ventilation Baffles	\$2.80	\$4.67	\$5.01	EACH	INSL			
Active	<input checked="" type="checkbox"/>	Cellulose Open Blow - R-30	\$0.57	\$1.30	\$1.32	SQ_FT	INSL			
Active	<input checked="" type="checkbox"/>	Central A/C - 16 SEER, 2 ton	\$2,892.06	\$1,073.44	\$1,288.12	EACH	HVAC			
Active	<input checked="" type="checkbox"/>	Fiberglass Dense Pack - R-19	\$2.20	\$3.30	\$3.72	SQ_FT	INSL			
Active	<input checked="" type="checkbox"/>	Insul-shield	\$52.00	\$3.06	\$53.58	LN_FT	HLSF			
Active	<input checked="" type="checkbox"/>	Insulate and Seal - Existing Attic Access R49	\$83.17	\$103.59	\$124.31	EACH	MSC			
Active	<input checked="" type="checkbox"/>	LED-60W Equiv (Stand)	\$1.77	\$3.91	\$4.69	EACH	BASE			
Active	<input checked="" type="checkbox"/>	Mobile Home Bottom Mending Material	\$0.23	\$0.18	\$0.21	SQ_FT	SEAL			
Active	<input checked="" type="checkbox"/>	Plywood 3/4" CDX - Per Sq. Ft.	\$1.56	\$0.00	\$0.00	SQ_FT	LUMB			

Page 1 of 1 (1-12 of 12 items) | < 1 >

Materials & Catalog Management

LAA Task Generation Project NOW, Inc.

Name Project NOW, Inc. - 2024

Manage Catalogs | Materials | Generate Tasks | View Tasks | Manage Packages

Unassigned Material: ☐ Active: ☐ Pending: ☐ Reset

Material Type: Select

Search

For Program Year: ☒ 2024 ☐ 2025 Generate Tasks Labor Only Task

Assessment Areas

- ☐ Cathedral Ceiling
- ☒ Finished Attic
- ☐ Outer Ceiling Joint
- ☐ Cedar Beam
- ☐ Roof Slat
- ☐ Knee Wall
- ☐ Basement
- ☐ Crawlspace
- ☐ MH or Framed Floors
- ☐ Wall
- ☐ Box Sill
- ☐ Boilers
- ☐ Furnace
- ☐ All Electric Systems
- ☐ Space Heaters
- ☐ Wall

Measure Group(s)

- ☐ ADHAC
- ☐ Elec Basic Lighting
- ☐ Elec Basic Ceiling Fan
- ☐ Elec Basic Freezer
- ☐ Elec Basic Refrigerators
- ☐ Elec Basic Power Strips
- ☐ Showerhead
- ☐ Toilet
- ☐ Faucet
- ☐ Lead Safe Work
- ☐ Living Space
- ☐ W- Bulk Water
- ☐ W- Electric
- ☐ W- Healthy Home
- ☐ All Electric Systems
- ☐ W- Mold & Moisture
- ☐ W- Other
- ☐ W- Plumbing & Sanitation

Contractor Type(s)

- ☒ Air Sealing
- ☒ Weatherization Plus
- ☐ Refrigerators and Freezers
- ☐ Window
- ☐ Roofing
- ☐ Plumbing
- ☐ Pest Control
- ☐ Other
- ☐ Mechanical/Health and Safety
- ☐ Mechanical
- ☐ Lead
- ☐ Insulation
- ☐ Electrical
- ☒ Architectural Health and Safety
- ☐ Architectural

Materials & Catalog Management

View Tasks Project NOW, Inc.

Name Project NOW, Inc. - 2024 Program Year 2024

Manage Catalogs | Materials | Generate Tasks | View Tasks | Manage Package

Assessment Area: Select Measure Group: Select Contractor Type: Select Material Type: Select Labor Only: ☐ Enabled Only: ☐ Reset

Search

Enabled	Tasks	Material Cost	Labor Cost	Prevailing Wage	Assessment Area	Measure Group	Contractor Type	Edit
<input checked="" type="checkbox"/>	Cellulose Open Blow - R-30	\$ 0.57	\$ 1.1	\$ 1.32	Unfinished Attic	Air Sealing/Health and Safety	Air Sealing/Architectural Health and Safety	
<input checked="" type="checkbox"/>	Labor2	\$ 00.00	\$ 3.25	\$ 3.25	Cathedral Ceiling	Weatherization Plus	Plumbing	
<input checked="" type="checkbox"/>	Mobile Home Bottom Mending Material	\$ 0.23	\$ 0.18	\$ 0.21	Cathedral Ceiling			
<input checked="" type="checkbox"/>	(Agency Procured Material Only) Furnace Install Kit	\$ 5.00	\$ 6.25	\$ 9.5	Color Beam	Retrofit/Weatherization Plus	Lead/Mechanical/Insulation	
<input checked="" type="checkbox"/>	Labor Task SIT	\$ 00.00	\$ 2.5	\$ 1.86	Basement	Retrofit	Electrical/Roofing	
<input checked="" type="checkbox"/>	(Agency Procured Material Only) Furnace Install Kit	\$ 5.00	\$ 6.25	\$ 9.5	Outer Ceiling Joint			
<input checked="" type="checkbox"/>	(Agency Procured Material Only) Furnace Install Kit	\$ 5.00	\$ 6.25	\$ 9.5	Cathedral Ceiling	Air Sealing	Air Sealing	
<input checked="" type="checkbox"/>	Mobile Home Bottom Mending Material	\$ 0.23	\$ 0.18	\$ 0.21	MH or Framed Floors	Weatherization Plus/Incidental Re...	Air Sealing/Weatherization Plus/In...	
<input checked="" type="checkbox"/>	Fiberglass Dense Pack - R-19	\$ 2.2	\$ 3.1	\$ 3.72	MH or Framed Floors	Weatherization Plus/Incidental Re...	Air Sealing/Insulation/Architectur...	



# ASSESSMENT

CONNECTED

Illinois Department of Commerce & Economic Opportunity Assessment

Head of Household : Bethany Berg

Please select an Assessment line by clicking on the Home button

Client Interview/General Info

- ☒ General Information
- ☒ Client Interview

Outdoor Inspection

- > ☐ Wall +
- > ☐ Air Conditioning +

Indoor Inspection

- ☐ Attic +
- ☐ Foundation +
- > ☐ Electrical Baseload +
- ☐ Living space +
- > ☐ Diagnostics +

Heating/Water Heating Systems

- > ☐ Water Heater +
- > ☐ Heating System +

Wx Plus

Home

OFFLINE





# ASSESSMENT

CONNECTED

Illinois Department of Commerce & Economic Opportunity Assessment

Client Interview/General Info

- ☒ General Information
- ☐ Client Interview

Outdoor Inspection

- > ☐ Wall
- > ☐ Air Conditioning

Indoor Inspection

- ☐ Attic
- ☐ Foundation
- > ☐ Electrical Baseload
- ☐ Living space
- > ☐ Diagnostics

Heating/Water Heating Systems

- > ☐ Water Heater
- > ☐ Heating System

Wx Plus

Home

General Information

Building Height: 16

Number of Bedrooms: 2

House Type: Ranch

Indoor Ambient CO Reading: No CO measured

Lower Explosion Limits: Less than 10%

Fuel Leak?: No

Immediate Hazardous Conditions?: None

Potentially Hazardous?: None

Should Weatherization be deferred?: None

Other Deferral Reasons: n/a

Comments: n/a

Save & Close Close

OFFLINE



# ASSESSMENT

CONNECTED

Illinois Department of Commerce & Economic Opportunity Assessment

> More Details

Wall > WALL1

Wall WALL1

Code WALL1 Height

Wall Type 2 x 4 Construction Existing Wall Cavity Insulation Type Fiberglass, batts

Orientation N Existing Wall Cavity Insulation R Value 11

Floor or Level 1 Continuous Insulation Type None

Exterior Type Vinyl siding Gross Wall Area Sq Ft 80

Active Knob and Tube Wiring No Net Area Sq ft 80

Length ft 10 Comments n/a

+ Add Child Duplicate Delete

Click to capture / insert pic

< Home

OFFLINE



# ASSESSMENT

CONNECTED

Illinois Department of Commerce & Economic Opportunity Assessment

> More Details

Wall > WALL1

Wall WALL1

Code	WALL1	Height	8
Wall Type	2 x 4 Construction	Existing Wall Cavity Insulation Type	Fiberglass, batts
Orientation	N	Existing Wall Cavity Insulation R Value	
Floor or Level	1	Continuous Insulation Type	None
Exterior Type	Vinyl siding	Gross Wall Area Sq Ft	80
Active Knob and Tube Wiring	No	Net Area Sq Ft	80
Length ft	10	Comments	n/a

Assessment Area > WALL1

☐ Door

☐ Window

Required

Add Cancel

Click to capture / Insert pic

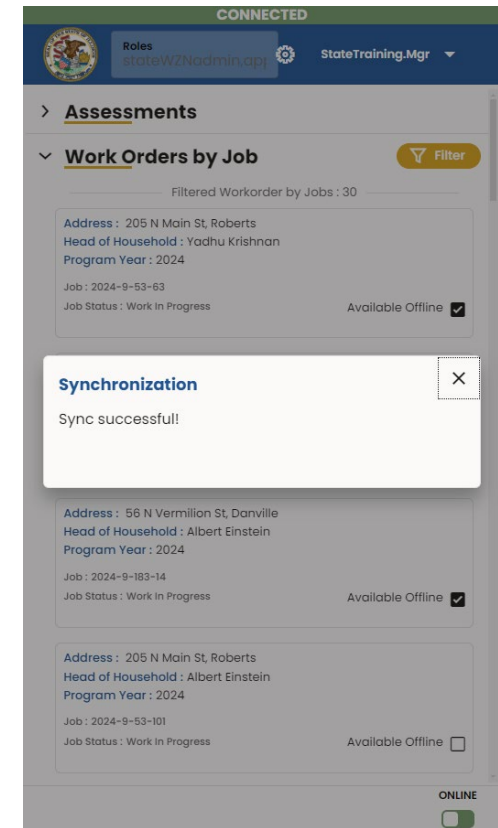
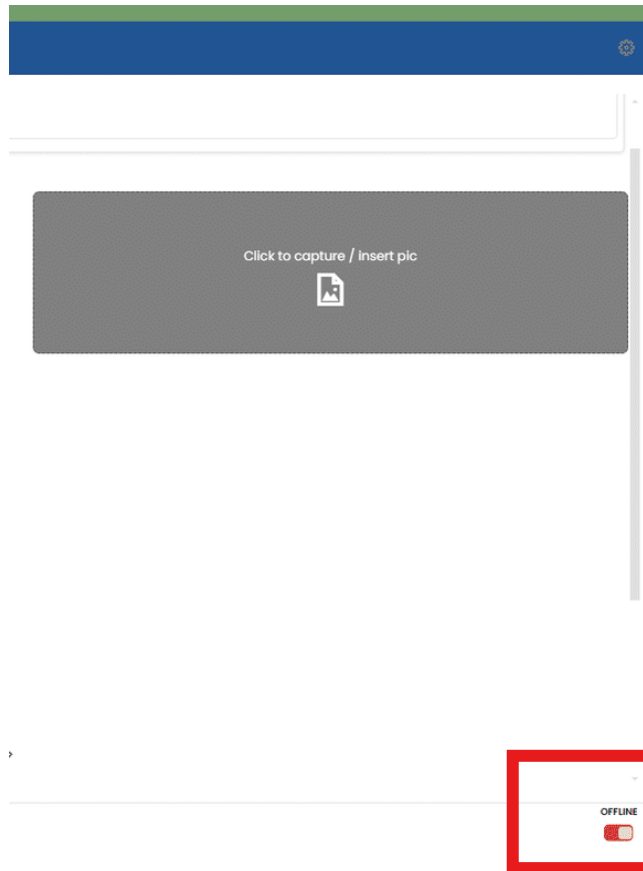
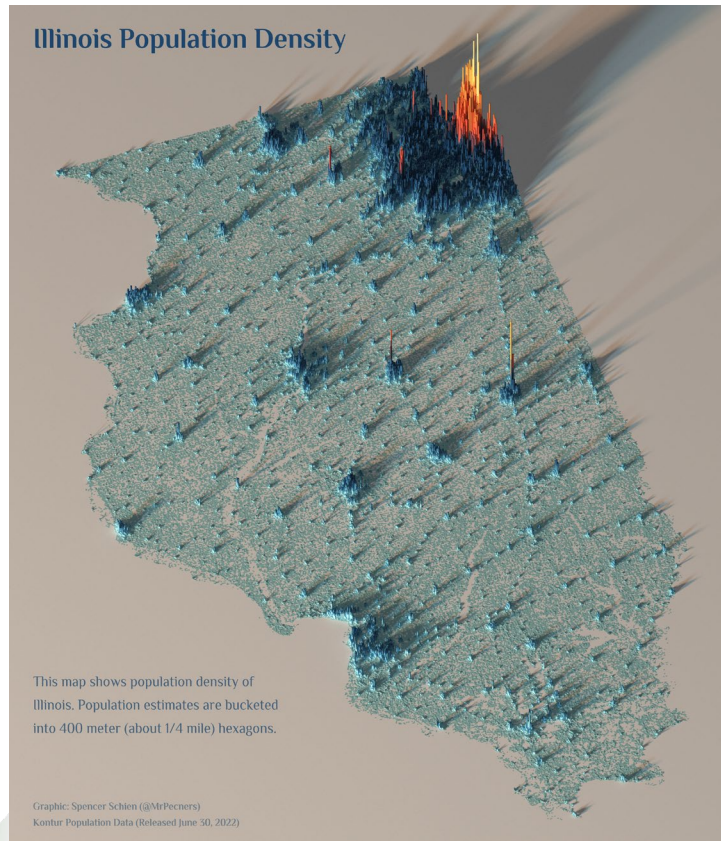
Home

OFFLINE





# ASSESSMENT: OFFLINE CAPABILITIES



# SCOPE OF WORK

Job: 2024-0-167-1  
Customer Info: Ike King, 714 E Gibson St, New Berlin  
Agency: Sangamon

Scope of Work

SIR Values need recalculating

In-Progress

Calculate SIR

Debug

Optimized Work Order SIR : 3.43

Estimated Energy Savings : 77.14  
Current Work Order SIR : 3.43

Site DOE Average : \$ 35.41  
DOE Health/Safety Average : \$ 17.00

Contractor Assignment

Clear Selections

By Measure Group

By Work Order

Validate

Switch Contractor

Select	Assessment Area	SIR	Work Order	Amount
<input type="checkbox"/>	Retrofit			\$10,373.48
<input type="checkbox"/>	Replace Furnace w/ X13 Motor, Single Stage	Furnace	<input checked="" type="checkbox"/>	\$3,837.12
<input type="checkbox"/>	Install LED Bulb - Interior	Elec Base Lighting	<input checked="" type="checkbox"/>	\$56.80
<input type="checkbox"/>	Insulate Attic w/ Cellulose	Unfinished Attic	<input checked="" type="checkbox"/>	\$2,396.88
<input type="checkbox"/>	Replace Central Air Conditioner	Air Conditioning	<input checked="" type="checkbox"/>	\$4,082.68
<input type="checkbox"/>	Replace w/ Power Vented Water Heater	Water Heater	<input type="checkbox"/>	\$2,369.42

Details

Code  
UNATI

Area  
1000

Insulation Type  
NONE

Active Knob and Tube Wiring  
NO

Are Ducts Present?  
NO

Is There Vermiculite Insulation In The Attic?

Attic Type  
UNFINISHED\_W\_O\_FLOORING

Existing Insulation R Value  
0

Joist Spacing  
24

Number of Recessed Lights  
0

Do the ducts need to be air sealed?

Do the ducts need to be insulated?

Assigned Package : Cellulose Open Blow - R-40

	Material	Labor	UOM	Qty	Include	
<input checked="" type="checkbox"/>	Plywood 3/4" CDX - Per Sq. Ft.	\$ 1.56	\$ 0.00	SQ_FT	10	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Insul-shield	\$ 1.00	\$ 1.00	LIN_FT	4	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Insulate and Seal - Existing Attic Access R49	\$ 83.17	\$ 103.59	EACH	1	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	Cellulose Open Blow - R-40	\$ 0.9	\$ 1.25	SQ_FT	1000	<input checked="" type="checkbox"/>

Contractor Type  
Insulation

Assigned Contractor  
Sangamon Crew ONUNE Trainin

Add'l Material Cost  
\$0.00

Add'l Labor Cost  
\$0.00

Retrofit Type  
All Insulation except for doors

Efficiency Type  
RVALUE

Value  
40

Catalog

Contractor Pricing

Select...

Reset

Packages

Tasks

Assessment Area  
Unfinished Attic

Measure Group  
Retrofit

Contractor Type  
Insulation

Description	Assessment Area	Measure Group	Contractor Type	Material	Labor
Cellulose Open Blow - R-40	Unfinished Attic	Retrofit	Insulation		
R-30 Open Blow	Unfinished Attic	Retrofit	Insulation		
R-49 Open Blow	Unfinished Attic	Retrofit	Insulation		



# SCOPE OF WORK QUADRANT 1

**Job:** 2024-0-167-1  
**Customer Info:** Ike King, 714 E Gibson St, New Berlin  
**Agency:** Sangamon

Calculate SIR ☐ Debug Optimized Work Order SIR : 3.43 Estimated Energy Savings : 77.14  
Current Work Order SIR : 3.43

Clear Selections

By Measure Group

By Work Order

Validate

Switch Contractor

Select	Assessment Area	SIR	Work Order	Amount
▼ Retrofit				\$10,373.48
<input type="checkbox"/> Replace Furnace w/ X13 Motor, Single Stage	Furnace		<input checked="" type="checkbox"/>	\$3,837.12
<input type="checkbox"/> Install LED Bulb – Interior	Elec Base Lighting		<input checked="" type="checkbox"/>	\$56.80
<input type="checkbox"/> Insulate Attic w/ Cellulose	Unfinished Attic		<input checked="" type="checkbox"/>	\$2,396.88
<input type="checkbox"/> Replace Central Air Conditioner	Air Conditioning		<input checked="" type="checkbox"/>	\$4,082.68
<input type="checkbox"/> Replace w/ Power Vented Water Heater	Water Heater		<input type="checkbox"/>	\$2,369.42





# SCOPE OF WORK QUADRANT 2

of Work

SIR Values need recalculating

In-Progress

Site DOE Average : \$ 35.41  
DOE Health/Safety Average : \$ 17.00

Contractor Assignment

Assessment Detail

Energy Detail

Funding

Details

Code

UNAT1

Area

1000

Insulation Type

NONE

Active Knob and Tube Wiring

NO

Are Ducts Present?

NO

Is There Vermiculite Insulation In The Attic?

Attic Type

UNFINISHED\_W\_O\_FLOORING

Existing Insulation R Value

0

Joist Spacing

24

Number of Recessed Lights

0

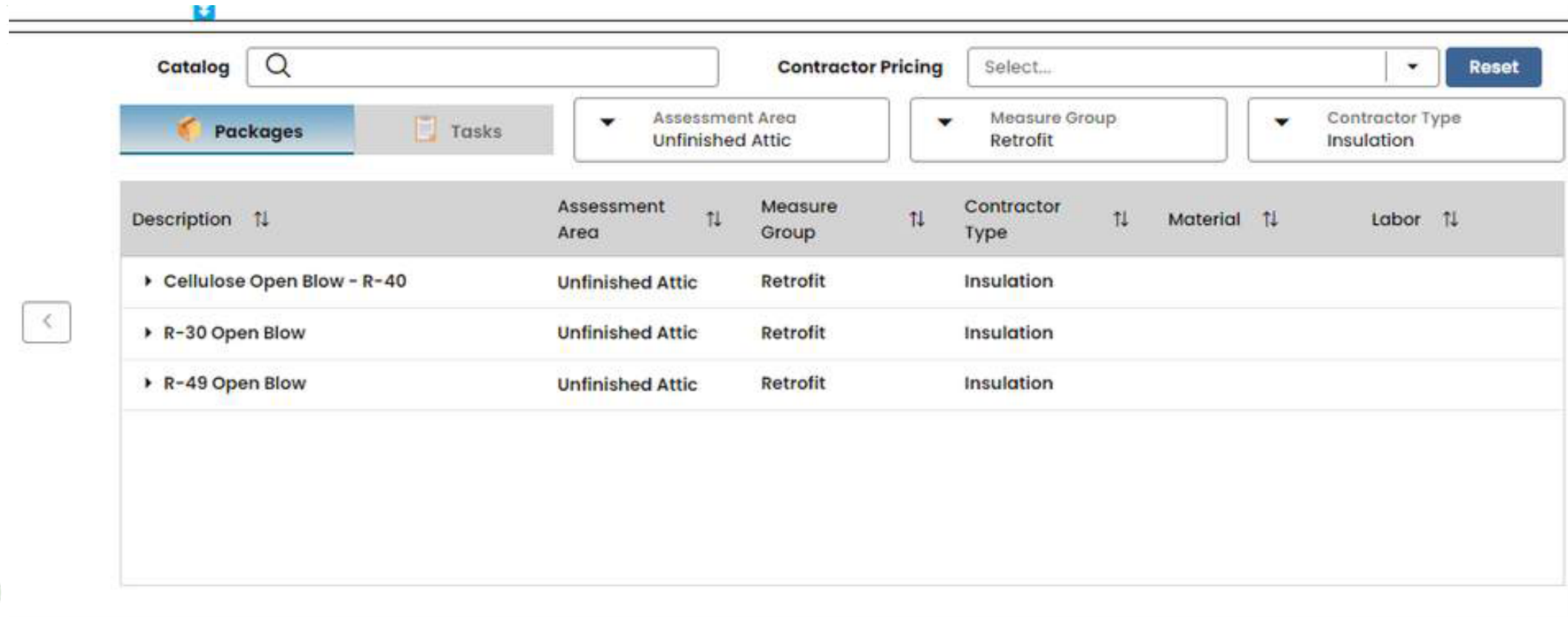
Do the ducts need to be air sealed?

Do the ducts need to be insulated?



# SCOPE OF WORK

## QUADRANT 3



Catalog

Contractor Pricing

**Packages** Tasks

Assessment Area: Unfinished Attic


Measure Group: Retrofit









Contractor Type: Insulation


Description ↑↓	Assessment Area ↑↓	Measure Group ↑↓	Contractor Type ↑↓	Material ↑↓	Labor ↑↓
▶ Cellulose Open Blow - R-40	Unfinished Attic	Retrofit	Insulation		
▶ R-30 Open Blow	Unfinished Attic	Retrofit	Insulation		
▶ R-49 Open Blow	Unfinished Attic	Retrofit	Insulation		



# SCOPE OF WORK QUADRANT 4

Assigned Package : Cellulose Open Blow - R-40 

	Material	Labor	UOM	Qty	Include
 Plywood 3/4" CDX - Per Sq. Ft.	\$ 1.56	\$ 0.00	SQ_FT	10	
 Insul-shield	\$ 1.00	\$ 1.00	LIN_FT	4	
 Insulate and Seal - Existing Attic Access R49	\$ 83.17	\$ 103.59	EACH	1	
 Cellulose Open Blow - R-40	\$ 0.9	\$ 1.25	SQ_FT	1000	



Contractor Type  
Insulation

Assigned Contractor  
Sangamon Crew ONLINE Trainin

Add'l Material Cost  
\$0.00

Add'l Labor Cost  
\$0.00

Retrofit Type  
All Insulation except for doors

Efficiency Type  
RVALUE

Value  
40



# SCOPE OF WORK

## QUADRANT 2: ENERGY DETAIL

Scope of Work

Completed ▾

Site DOE Average : \$ 2228.42

DOE Health/Safety Average : \$ 493.36

Contractor Assignment

Assessment Detail

Energy Detail

Funding

Site Energy Savings

Annual Energy Savings	BTUs	kWh	\$\$\$
Heating:	175,109,008	0	\$2,434.72
Air Conditioning:	0	2,992	\$561.95
Air Sealing (heating):	8,571,622	0	\$119.18
Air Sealing (air conditioning):	0	163	\$29.07
Water Heater:	4,705,035	0	\$65.42
Electric Baseload:	0	496	\$88.29
<b>Total:</b>	<b>188,385,665</b>	<b>3,651</b>	<b>\$3,298.63</b>
Water:	5,890 gals	0	77.22
CO <sub>2</sub> Reduction:	24,229 lbs	0	0
Pre Space Heating Index:	35.55 (Btus/sqft-°FDay)		
Post Space Heating Index:	32.17 (Btus/sqft-°FDay)		

Site Energy Consumption

	Existing	Original Work Order	Optimized Work Order
Annual Space Heating (BTUs):	383,724,650	347,187,661	347,187,661
Annual Cooling (kWh):	5,664	2,672	2,672
Space Heating Index(BTUs/sqft- °F Day):	35.55	32.17	32.17





# SCOPE OF WORK

## QUADRANT 2: FUNDING

Job: 2024-38-167-26

Customer Info: Romeo F Delta, 1456 N 4th St., Springfield

Agency: Sangamon County Department of Community Resources

Scope of Work

In-Progress

Calculate SIR

Debug

Optimized Work Order SIR : 3.56

Estimated Energy Savings : 62.19%

Current Work Order SIR : 3.56

Site DOE Average : \$ 35.41

DOE Health/Safety Average : \$ 17.00

Contractor Assignment

Clear Selections

By Measure Group

By Work Order

Validate

Select	Assessment Area	SIR	Work Order	Amount
▼	Retrofit			\$10,373.48
<input type="checkbox"/>	Replace Furnace w/ X13 Motor, Single Stage	Furnace	1.07	<input checked="" type="checkbox"/> \$3,837.12
<input type="checkbox"/>	Install LED Bulb - Interior	Elec Base Lighting	44.01	<input checked="" type="checkbox"/> \$56.80
<input type="checkbox"/>	Insulate Attic w/ Cellulose	Unfinished Attic	7.99	<input checked="" type="checkbox"/> \$2,396.88
<input type="checkbox"/>	Replace Central Air Conditioner	Air Conditioning	2.56	<input checked="" type="checkbox"/> \$4,082.68
<input type="checkbox"/>	Replace w/ Power Vented Water Heater	Water Heater	0.8	<input type="checkbox"/> \$2,369.42
<input type="checkbox"/>	Insulate Crawl Space Walls w/ 2-part spray foam	Crawl Space	0.67	<input type="checkbox"/> \$3,166.80
►	Air Sealing	0		\$0.00
►	Health and Safety			\$0.00

Assessment Detail

Energy Detail

Funding

Refresh

Utility TBD	Utility Line Item Total	Unfunded Amount
<input type="checkbox"/> Utility Sharing	\$ 4082.68	\$ 0.00

tl	Grant	tl	Line Item	tl	Site Total	tl	Grant Balance	tl
<input checked="" type="checkbox"/>	24-22138		\$4,082.68		\$ 7919.80		\$ 241951.91	
<input type="checkbox"/>	24-25138		\$0.00		\$ 56.80		\$ 122241.45	
<input type="checkbox"/>	24-40138		\$0.00		\$ 2396.88		\$ 175399.11	
<input type="checkbox"/>	24-46138		\$0.00		\$ 0.00		\$ 270625	

Estimated Site Budget Information

Funding Source	M & L Cost	M & L Balance	Incidental Cost	Incidental Balance	H & S Cost	H & S Balance
DOE	\$ 2396.88	\$ 5603.12	\$ 0.00	\$ 700.00	\$ 0.00	\$ 1750.00
STATE	\$ 56.80	\$ 7943.20	\$ 0.00	\$ 700.00	\$ 0.00	\$ 1750.00
HHS	\$ 7919.80	\$ 80.20	\$ 0.00	\$ 700.00	\$ 0.00	\$ 1750.00
DOE-BIL	\$ 0.00	\$ 8000.00	\$ 0.00	\$ 700.00	\$ 0.00	\$ 1750.00
<b>TOTAL</b>	\$ 10373.48	\$ 5626.52	\$ 0.00	\$ 1400.00	\$ 0.00	\$ 3500.00

W+ Cost: \$0.00

W+ (State and DOE Ready) Balance: \$5,000.00



# SCOPE OF WORK SIR & ENERGY SAVINGS

**Job:** 2024-0-167-1  
**Customer Info:** Ike King, 714 E Gibson St, New Berlin  
**Agency:** Sangamon

Scope of Work

Calculate SIR ↻

☐ Debug

Optimized Work Order SIR : 3.43

Estimated Energy Savings : 77.14  
Current Work Order SIR : 3.43

Site DOE Average : \$ 35.41  
DOE Health/Safety Average : \$ 17.00

Clear Selections

By Measure Group

By Work Order

Validate


Switch Contractor

Assessment Detail



# WORK ORDERS

CONNECTED



Roles  
stateWZNadmin,api

StateTraining.Mgr

> Assessments

Work Orders by Job

Filter

Filtered Workorder by Jobs : 27

Address : 56 N Vermillion St, Danville  
Head of Household : deepthi namala  
Program Year : 2024  
Job : 2024-9-183-11  
Job Status : Work In Progress  
Available Offline ☐


Address : 205 N Main St, Roberts  
Head of Household : Albert Einstein  
Program Year : 2024  
Job : 2024-9-53-101  
Job Status : Work In Progress  
Available Offline ☐

Address : 56 N Vermillion St, Danville  
Head of Household : Albert Einstein  
Program Year : 2024  
Job : 2024-9-183-14  
Job Status : Work In Progress  
Available Offline ☐

Address : 205 N Main St, Roberts  
Head of Household : Deepa TEST  
Program Year : 2024  
Job : 2024-9-53-62  
Job Status : Work In Progress  
Available Offline ☐

OFFLINE ☐

CONNECTED



Roles  
stateWZNadmin,api

StateTraining.Mgr

< Back

Print

Work Order Details

Job : 2024-9-53-101      WO : 2024-9-53-101 - Com Crew  
Agency : East Central Illinois Community Action Agency, Inc.

More Details

Head of Household  
Albert Einstein  
Address  
205 N Main St, Roberts  
WO Status  
Call Back  
Contractor  
Community\_Crew  
Start Date  
03/20/2024  
Scheduled Appointment  
Completed Date  
03/20/2024  
Phone  
Email  
Albert.Einstein@yopmail.com  

View Full Assesment

Job Change Requests

Inspection

IHWAP Standards

Status

Work Line

Call Back

Install LED Bulb - Interior

Final

Insulate Attic w/ Cellulose

OFFLINE ☐

Install LED Bulb - Interior

X

Job : 2024-9-53-101  
Agency : East Central Illinois Community Action Agency, Inc.  
WO : 2024-9-53-101 - Com Crew  
WorkLine Status : Call Back  

View Assessment Line

Contractor Comments

Click to capture / insert pic

View More

Package

Package	Total Additional Costs	
	Labor	Material
LED-60W Equiv (Stand)	\$0.00	\$0.00

Tasks	QTY	UOM	Total Task Costs	
			Labor	Material
LED-60W Equiv (Stand)	1	Each	\$3.91	\$1.77

Package Comments

Change Requests



# CHANGE ORDERS

**Change Request: Not enough Light Bulbs:Summary**

Summary

\* Change Request Name: Not enough Light Bulbs

Status: Submitted

Reviewer Comments: [Empty]

Requestor Comments: There's another lamp that has 5 bulbs in it in the master bedroom

Change Type: [Empty]

Change Source: Work Order Line

Inspection: [Empty]

Inspection Line: [Empty]

Work Order: 2024-0-167-1 - SCOT1 X

WO Lines: Install LED Bulb - Interior X

View Attachments

Job: 2024-0-167-1 X

Created By: training.online1@gmail.com

**Change Request: Not enough Light Bulbs:Summary**

Summary

\* Change Request Name: Not enough Light Bulbs

Status: Submitted

Reviewer Comments: The extra lightbulbs are being added to the baseload per the request of the contractor

Requestor Comments: There's another lamp that has 5 bulbs in it in the master bedroom

Change Type: [Empty]

Change Source: Assessment & Scope of Work

Inspection: Scope of Work

Inspection Line: [Empty]

Work Order: 2024-0-167-1 - SCOT1 X

WO Lines: Install LED Bulb - Interior X

View Attachments

Job: 2024-0-167-1 X

Created By: training.online1@gmail.com

**Scope of Work**

Completed

Job: 2024-0-167-1

Customer Info: 846 King, T4 E Gibson St, New Berlin

Agency: Sangamon County Department of Community Resources

Calculate Bill

Debug

Optimized Work Order SR: L12

Estimated Energy Savings: 19.5%

Current Work Order SR: L12

2024-04-167-1: \$18.45

2024-04-167-1: \$18.45

Clear Selections

By Measure Group

By Work Order

Validate

Select	Assessment Area	SR	Work Order	Amount
	Retrofits			\$18,452.41
	Air Sealing	10.12		\$299.31
	Health and Safety			\$381.20

Assessment Detail

Energy Detail

Funding

Details

No data to display

Measures

Attachments

Assigned Package

No data to display

Contractor Type

Assigned Contractor

Final Add'l Material Cost

Final Add'l Labor Cost

**Select Change Request**

Cost Only Changes

CAUTION - Selecting Yes will NOT re-open the Job and Work Order. Do NOT make changes that affect the Work Order. Selecting a CR from below is optional.

Request Name	Requestor Comments	Reviewer Comments	Pick a CR
Not enough Light Bulbs	There's another lamp that has 5 bulbs in it in the ma...	The extra lightbulbs are being added to the baseload...	Select

Confirm

Cancel





# INSPECTIONS

CONNECTED

Weatherization Field Work App

Back Cancel Inspection

Job: 2024-9-53-94 | Inspection: 2024-9-53-94 | Type: Final

Y Item Change Requests

Inspection Line	LAA Result	Contractor	Assessment Area
Retrofit-2024-9-53-94-Com Crew-1	Best Practice	Community_Crew	Elec Base Lighting
Retrofit-2024-9-53-94-Com Crew-2	Finding	Community_Crew	Unfinished Attic
Retrofit-2024-9-53-94-Com Crew-3	Finding	Community_Crew	MH or Framed Floors

Filter

Line Result: Select one

Contractor: Select one

Assessment Area: Select one

Apply Reset

Assessment Area

Elec Base Lighting

Unfinished Attic

MH or Framed Floors

ONLINE

CONNECTED

Weatherization Field Work App

Back Cancel Inspection

Job: 2024-9-53-94 | Inspection: 2024-9-53-94 | Type: Final

Y Item Change Requests

Assessment Area

Elec Base Lighting

Unfinished Attic

MH or Framed Floors

ONLINE

Retrofit-2024-9-53-94-Com Crew-1

Inspection Type: Final

WO Line Name: Install LED Bulb - Interior

Inspection Line Result: Finding

Action Type: Change

Call Back Count:

Change Requests

DETAILS WORK LINE ASSESSMENT LINE

Inspection Notes

inspection notes

Click to capture / insert pic

CONNECTED

Weatherization Field Work App

Back Cancel Inspection

Job: 2024-9-53-94 | Inspection: 2024-9-53-94 | Type: Final

Y Item Change Requests

Assessment Area

Elec Base Lighting

Unfinished Attic

MH or Framed Floors

ONLINE

Retrofit-2024-9-53-94-Com Crew-1

Inspection Type: Final

WO Line Name: Install LED Bulb - Interior

Inspection Line Result: Finding

Action Type: Change

Call Back Count:

Change Requests

DETAILS WORK LINE ASSESSMENT LINE

Assessment Line Details

Measures

Attachments

CONNECTED

Weatherization Field Work App

Back Cancel Inspection

Job: 2024-9-53-94 | Inspection: 2024-9-53-94 | Type: Final

Y Item Change Requests

Assessment Area

Elec Base Lighting

Unfinished Attic

MH or Framed Floors

ONLINE

Retrofit-2024-9-53-94-Com Crew-1

Inspection Type: Final

WO Line Name: Install LED Bulb - Interior

Inspection Line Result: Best Practice

Action Type: Select one

Call Back Count:

Change Requests

DETAILS WORK LINE ASSESSMENT LINE

Assessment Line Details

Measures

Attachments



## CALL BACKS

- If an inspector notes something wrong during the inspection, they can request a call back.
- This reopens the contractor's work order, with inspection comments.



# QUALITY ASSURANCE MONITORING

- At least one job in “Done” status
- Create a QA inspection
- Determine whether each line item is Best Practice, Acceptable, Observation, or Finding
- Observation/Finding = Call Back or Change Order
- Generate report

**Illinois Department of Commerce & Economic Opportunity** Weatherization Field Work App

▼ **Job:** 2025-040-105-4 | **Inspection:** 2025-040-105-4 | **Type:** QA Monitoring

**Eligible Programs:**

**Head of Household:** Robert Rowney

**Agency:** Tazwood Community Services, Inc.

**Address:** 1503 S Illinois St, Streator

**Call Back Count:** 0

**Inspection Completed Date:**

**Inspection Status:** Done

**Ready for LAA Reinspection:** ☐

**Ready for OCA Reinspection:** ☐

**OCA Result:** Acceptable

**LAA Result:** Best Practice

**View Full As**


**Client File No** Acceptable

**OCA review** Observation

**7/12/25 - A** Finding

lients missing during client file review. A list of missing documents was  
nts can be added to the respective sections in IWX.  
on uploaded and reviewed in IWX. (Benefit summary screen for LIHEAP

**Front Elevation**



**Illinois Department of Commerce & Economic Opportunity**  
**OFFICE OF COMMUNITY ASSISTANCE**  
JB Pritzker, Governor

07/14/2025

Mrs. Lindsey Nance, Executive Director  
Tazwood Community Services, Inc.  
610 Park Avenue  
Pekin, IL 61554

**RE: IHWAP Grants: DOE 22-403040, HHS 24-221040, STATE 25-251040**

Mrs. Nance:

This letter summarizes the results of the monitoring review conducted on June 18, 2025, by the Office of Community Assistance (OCA). I met with Caleb Marrett, Weatherization Coordinator. The purpose of this visit was to perform quality assurance monitoring of your PY 2025 weatherization program grant(s) to ensure compliance with the requirements of the grant agreement and ensure IHWAP standards are being applied to weatherized units.

This monitoring visit included on-site quality control reviews for two completed weatherization projects. Client file reviews were also conducted for each of the homes visited. Please see enclosed the Quality Control Inspection and Client File Review Reports.

No response is required as a result of this monitoring visit. Thank you for the hospitality and cooperation extended to me during my monitoring visit. If you have any questions, please

**Job Inspection**

<b>Client Name:</b> Robert Rowney	<b>Job Number:</b> 2025-040-105-4
<b>Street Address:</b> 1503 S Illinois St	<b>Funding Source:</b> DOE/ HHS/ STATE
<b>Assessor:</b> Duane Durbin	<b>City:</b> Streator
<b>Mechanical Contractor:</b> A.D. Binder Plumbing and Heating, LLC	<b>Final Inspector:</b> Steve Jacobs
<b>Architectural:</b> Pleines Construction, LLC	

**QA Job Summary:** The work performed at this client's home was mostly acceptable per IHWAP standards. There were minor deficiencies observed that were quickly and properly addressed on site. Agency staff was able to remove excess pipe insulation that was within 6" of the exhaust and venting of the HWT. Agency was also instructed to ensure that the pipe insulation is properly throughout with zip ties or similar fastener. Additionally, a damaged pane was observed in one of the basement windows. Agency and contractor documentation show that the damage most likely occurred after completion of the weatherization process.

**Findings:** N/A

**Corrective Action:** N/A

**Client File Review**

<b>Client Name:</b> Robert Rowney	<b>Job Number:</b> 2025-040-105-4
<b>Funding Source:</b> DOE/ HHS/ STATE	

**Client File Notes:** OCA review revealed three documents missing during client file review. A list of missing documents was sent to the agency so the documents can be added to the respective sections in IWX. 7/8/25 - All documentation has been uploaded and reviewed in IWX. (Benefit summary screen for LIHEAP eligibility, complete Desk Audit form, and Contractor Assurance of Work).

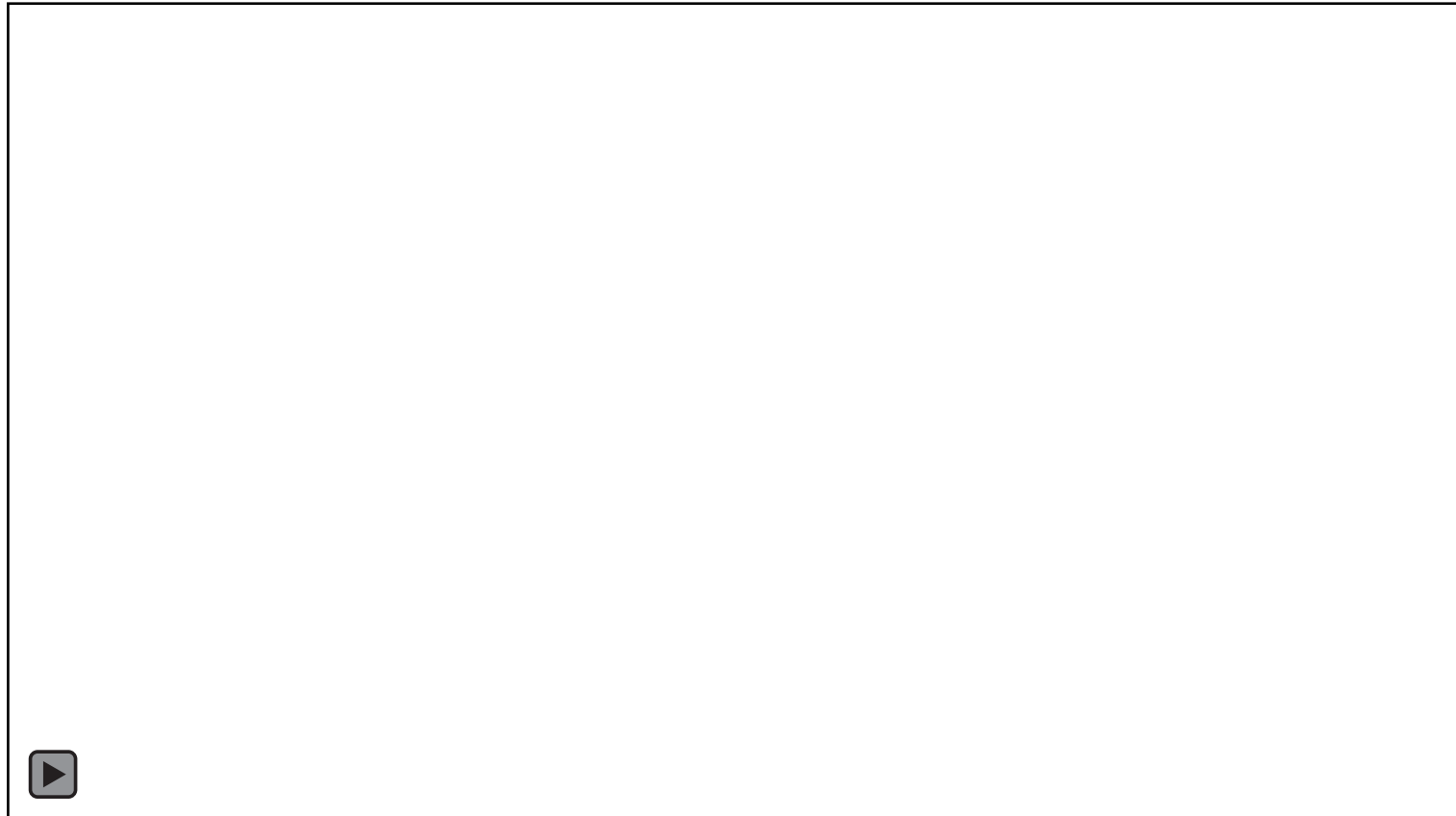
**Findings:** N/A

**Corrective Action:** N/A



# PROGRAMMATIC MONITORING

- Monitoring conducted by OCA weatherization specialists to ensure compliance with all IHWAP programmatic requirements





# CHALLENGES

## Challenges:

- Workload
- Bandwidth
- Organizational structures (procurement, subcontractors, IT department)
- System bugs

## Would we do it all over again?

- For us, this *had* to be done
  - Weatherworks was coming to an end, and the new system had to be in place before it did
- In our opinion, IWx was worth it
  - It depends what your goals are
- If you want to build a system like this, IWx can serve as a blueprint for your energy modeling system
  - You don't have to start from scratch





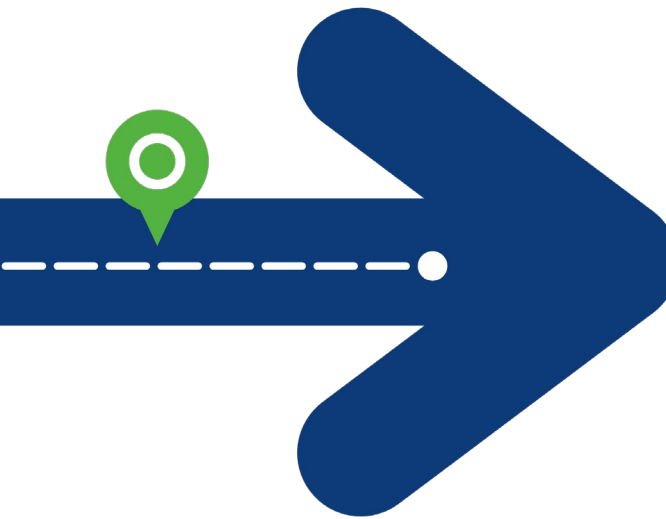
## **KEY TAKEAWAYS**

1. Do a discovery
2. Have subject matter experts
3. Vet your contractors thoroughly
4. Have the right people on your team
5. Know your capabilities
6. Have specific deliverables and milestones
7. Timing
8. Budget
9. Have training in mind from the beginning
10. Have a project manager on your side
11. Don't take "NO" for an answer from developers





## CONCLUSION



We didn't just introduce a new energy modeling system—we redefined the entire weatherization process, from application intake to cost reporting. That level of change required more than just technical training; it meant helping the network unlearn and relearn processes they've followed for decades. That's exactly what we'll explore next—how we approached training the IHWAP network to navigate this shift successfully.

