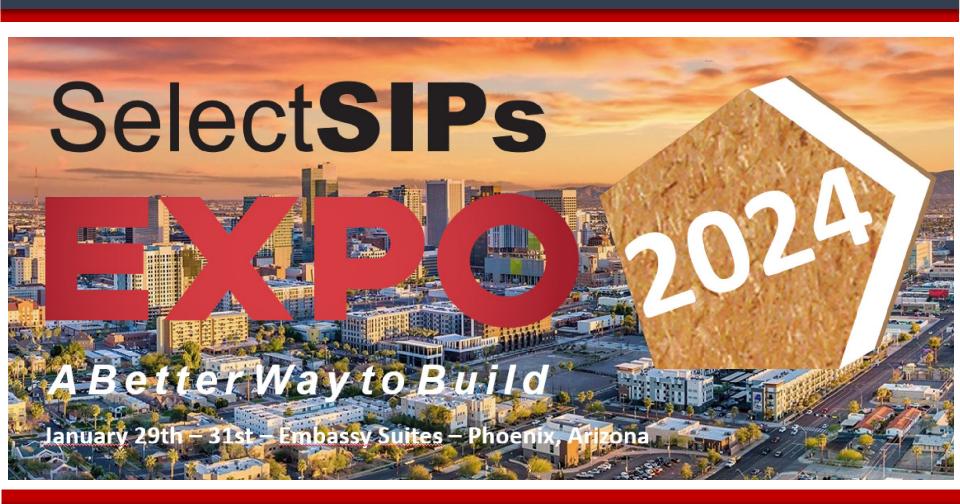
WELCOME!





Thank You 2024 Sponsors!!





THANK YOU TO OUR SPONSORS







































EXPO EVENT SPONSORS































SIPA Building Excellence Awards

SIPA Annual Meeting 2024

Trail-Blazing Judges for a Cutting-Edge Building Product

Archie Landreman – Mass Timer Specialist

Archie is an active and participating member of the American Institute of Architects, Association of Licensed Architects, Construction Specifications Institute, Forest Products Society, Structural Engineers Associations, National Frame Builders Association, Structural Building Component Association, Structural Insulated Panel Association and collaborates with the Forest Products Lab in Madison, Wisconsin and several universities.



<u>Christian Kaltreider – Building Energy Efficiency Research Engineer at the Pacific Northwest National Laboratory</u>

Christian Kaltreider is a Building Energy Efficiency Research Engineer with 15 years of prior experience working in energy efficiency, renewable energy, and residential construction. His primary work at PNNL includes the development of guidance on building science best practices for builders and contractors, housed on the Building America Solution Center. Before joining PNNL he worked as an engineering consultant on energy savings performance contracts, net-zero energy projects, and high-performance HVAC design efforts.



John W. Meyer – Founder & Chief Operations Officer, Innova

John is founder and COO of Innova, an innovative ESG company specializing in design, deployment and measurement of low carbon, sustainable solutions. Innova solutions include concrete free foundations, sustainable concrete, zero energy builds, rammed earth structures and renewable micro-grids. For these solutions and more, Innova provides stakeholders predictive outcomes with ongoing assessment and validation of proven-sustainable-best-practice designs and technologies.



Affordable Housing



Affordable Housing

Affordable SIP House Birmingham AL

WINNER

High Performance

SIP wall thickness: 5" EPS

SIP roof thickness: 8.5" EPS

HERS: 56

ACH50: 0.87

kBtu/sq.ft./year: 32.2

HVAC System:

15.2 SEER2 ducted system





Navigate Affordable Housing Partners Extreme Panel Technologies Goldwire

Birmingham, AL



Affordable Housing

SIP Tiny House Castlewood SD

WINNER

CLASSIC

SIP wall thickness: 5 5/8" EPS

SIP roof thickness: 9 5/8" EPS

HVAC: Ductless mini-split heat pump

Sta-Plus Steel Door w/Low-E Glass, Gerkin Low-E Vinyl windows.

LED lighting, tankless water heater, passive solar on west side of home.





Enercept
Not Quite Tiny Home
Castlewood, SD



Agricultural



Agricultural

SIP Farm Multi Shop Cottonwood MN

RUNNER-UP Classic

SIP wall thickness: 8 ¼" SIP roof thickness: 8 ¼"

HVAC:

in-floor heating and minisplit systems

LED lighting throughout





Extreme Panel Technologies
Neuman Farm Shop
Cottonwood, MN



Agricultural

SIP Kitty Community Rescue Tyler MN

WINNER Classic

SIP wall thickness: 5 ½ " EPS Foam

SIP roof thickness: 11 7/8" EPS Foam

SIP floor thickness: 11 7/8" EPS Foam

HVAC: A single zone 18,000 BTU ductless inverter.

Vector Invision windows R-value: 3.70 U value: 0.27





Enercept SIPs
Windy Kitty Comm Rescue
Tyler, MN



Commercial/Industrial/ Institutional over 10,000 sq. ft.



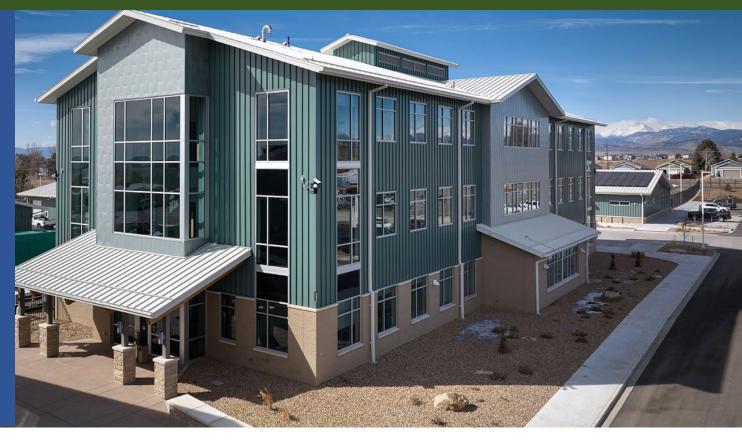
Commercial over 10,000 sq. ft. RUNNER-UP

SIP Campus Building Berthound CO

Classic

Building's envelope, HVAC + lighting design = 29% energy cost savings per

LEED Silver Certification





Premier Building Systems

Northern Water Utility Campus Expansion – HQ Bldng Berthound, CO



Commercial over 10,000 sq. ft.

SIP School and Community Center Atmautluak AK

WINNER

Classic

SIP Wall thickness: 8" typical at walls 12" at angled walls 8" at soffits below the school.

SIP roof thickness: 12"

HVAC: Hydronic heating from a boiler building. 2nd floor interior air handling units in Mechanical rooms.

Triple-pane windows: U= 0.30 BTU/Sf.





Premier Building Systems

Joann A Alexie Memorial K-12 School

Atmautluak, AK



Commercial/Industrial/ Institutional under 10,000 sq. ft.



Commercial under 10,000 sq. ft. RUNNER-UP

SIP Headquarters Aspen CO

Classic

SIP roof thickness: 10"

High performance programmable multi zone HVAC





Premier Building Systems
Aspen Distilling
Aspen, CO



Commercial under 10,000 sq. ft.

WINNER Classic

SIP Research Center Cape Shirreff Antartica

SIP wall thickness: 6" (3813 FT2 Wall Panels)

SIP roof thickness: 10" (2932 FT2 Roof/Floor Panels)

SIP floor thickness: 10"

SIP partitions thickness: 4"

Full rooftop solar powered system

Exteriors are stainless steel

LEED lighting





Premier Building Systems

NOAA Cape Shirreff Galley & Bunkhouse Cape Shirreff Antartica





SIP Twin House Mapleton ND

RUNNER-UP Classic

SIP wall thickness: 5 ½ " EPS Foam Core

HVAC:

95% AFUE York Natural Gas Forced air furnace with dual-zones.

Energy-saving materials: Andersen 100-series windows with 0.32 U Value; Jeld Wen insulated walk doors; Clopay R-19 Overhead Garage Doors.





EnerceptMapleton Twin Homes
Mapleton, ND



SIP Apartment Building Longmont CO

WINNER Classic

SIP wall thickness: 6 ½"
SIP roof thickness: 12.25"

3 bedroom units are about \$50 to heat and cool per month (in the CO winter), which is great for 1300 sq ft.

HVAC: dwelling unit, high performing mini-split systems

Low emitting LED lighting, on demand hot water, all electric

Solar Ready





Premier Building Systems
Sunset Apartments
Longmont CO



Zero Energy SIP Apartments Kansas City KS

WINNER

High Performance

SIP wall thickness: 4-5/8" EPS Core

HERS: 45 and 47

ACH50: 1.75

HVAC: Air Source Heat

Pumps

Solar Panel: Installation planned for 2024

All units are Energy Star MF v1.1 Certified, EPA Indoor Air PLUS Qualified, and Zero Energy Ready -(All Certs are pending)





The Murus Company

Davidsons Landing Kansas City, KS



Renovations



Renovations

Revamped SIP House San Pedro CA

RUNNER-UP

Classic

SIP wall thickness: 8" EPS

SIP roof thickness: 12" EPS

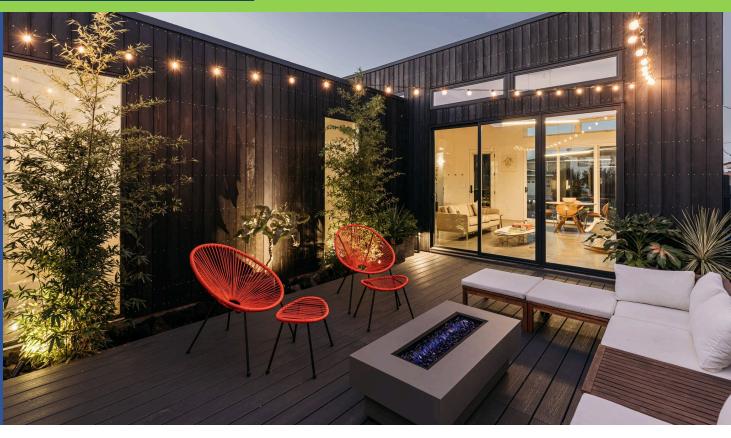
HVAC:

5-zone mini-split heat pump

Windows: U=0.34, SHGC=0.25

LED lighting

Energy star appliances





Premier Building Systems
Nico's House
San Pedro, CA



Renovations

SIP Cabin Lake Hackensack MN

WINNER Classic

SIP wall thickness: 5-1/2" EPS

SIP roof thickness: 11-7/8" EPS

HVAC:

Propane air furnace
Basement – in-floor heat





Enercept

Camp David on Baby Lake Hackensack, MN



Residential Single Family Homes over 3,000 sq. ft.



Homes over 3,000 sq. ft.

SIP Casita and Shop Scottsdale AZ

RUNNER-UP Classic

SIP wall thickness: 6" EPS

SIP roof thickness:10" EPS

HVAC: Mini-splits – HRV

On Demand Water, Energy Star Appliances, LED Lighting, LOW/NO Voc finishes.

Triple pane windows

Solar Panels





Premier Building Systems
Scottsdale Compound
Scottsdale, AZ



Homes over 3,000 sq. ft.

High Vaulted Ceiling SIP House Culpeper VA

WINNER Classic

SIP wall thickness and core material: 6" EPS

Roof thickness 10" EPS

ACH50: 0.9

HVAC:

15+ SEER 2.0 ton 10 Kw Aux Heat, variable speed air handler

15+ SEER 2.5ton 10 Kw Aux heat, variable speed air handler

Solar: 11kW





T&M Contracting
And
Construction Services, LLC
SHM Modern
Culpeper, VA





Homes over 3,000 sq. ft. Honorable Mention

Ultra-Efficient SIP House East Hampton NY

High Performance

SIP wall thickness:

6-1/2" EPS

R-value: 23

SIP roof thickness:

12-1/4" EPS

R-value: 45

HERS: 16

ACH50: 1.19

HVAC:

Air Source Heat Pumps

U-value: 0.28

SHGC: 0.3

Solar Panel: 10.4 kWh



Full SIP envelope and strong high performance with low hardscaping and minimum cement



The Murus Company
Thanet Way
East Hampton, NY



Homes over 3,000 sq. ft.

RUNNER-UP

High Performance

Geothermal SIP House Lennox SD

SIP wall thickness and core material: 6-1/2", 5-1/2" EPS Foam 1 lbs.

HERS: 41 ACH50: 1.60

HVAC:

Geothermal ground source heat pump forced air and radiant floor heat.

Energy Star 2018 IECC EPA Indoor Air Plus





Energy Panels Structures
Merrigan Residence
Lennox, SD



Homes over 3,000 sq. ft.

WINNER

High Performance

ZeroEnergy Timberframe SIP House Rockwood PA

SIP wall thickness: 5-1/2" EPS

SIP roof thickness: 11-7/8" EPS

HERS: -16

ACH50: 0.88

HVAC:

Geothermal heat pump

Solar: 19.2kW

Windows: 0.11 U-factor: 0.10





Energy Panels Structures
Tinkey Residence
Rockwood, PA



Residential Single Family Homes under 3,000 sq. ft.



RUNNER-UP

Classic

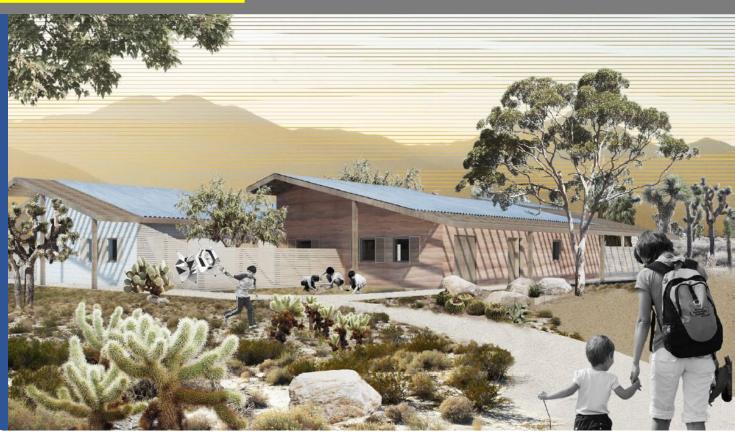
SIP Sustainable House Thermal CA

SIP wall thickness: 6" EPS SIP roof thickness: 12" EPS

All low VOC finishes Low water need vegetation Solar ready/solar installed.

On demand hot water

Achieved Title 24 requirements





Premier Building Systems
Pueblo Unido 3 Bed Prototype
Thermal, CA



Modern SIP House Remington VA

WINNER

Classic

SIP wall thickness and core material: 6" EPS with 19/32 skins

SIP roof thickness and core material: 10" EPS with 19/32 skins

ACH50: 0.87

HVAC:

16+ SEER, HSPF 9.0, with a 10 Kw aux heat AprilAire model #8100 ERV Broan 50 CFM bathroom exhaust fans





T&M Contracting
And
Construction Services, LLC
Lakota House
Remington, VA





RUNNER-UP

High Performance

SIP ECO-Friendly Desert House Placitas NM

SIP wall thickness: 8 1/4" wall panels, EPS foam

SIP roof thickness and core material: Traditional truss roof, open cell spray foam cap, batt insulation.

HERS: 37 (solar panel not included in this rating

ACH50: 1.09 kBtu/ft2: 4.41

HVAC:

Air-source heat pump

Water Heating





Premier Building Systems 8 Ocate Ct

8 Ocate Ct Placitas, NM



WINNER

High Performance

Super-Efficient ADU SIP House Seattle WA

IP wall thickness: 6" EPS

SIP roof I: 10" EPS

HERS: -2

ACH50: 1.07

HVAC: Sanden CO2 radiant floor heat/hot water.

Fantech ERV

Cork 2" exterior insulation, triple pane U-15 windows

Solar Panel: 16w





Premier Building Systems GRAMADU Seattle, WA



Residential Single Family Homes under 900 sq. ft.



RUNNER-UP

Classic

Compact SIP House Dewey AZ

SIP wall thickness:

6" EPS

SIP roof thickness:

6" EPS

HVAC: Mini Spit

Energy efficient appliances

LED lighting





Premier Building Systems

SW Energy Saver (Garavetto / Miller Residence)
Dewey, AZ



Net-Zero Ready ADU SIP Los Altos Hills CA

WINNER

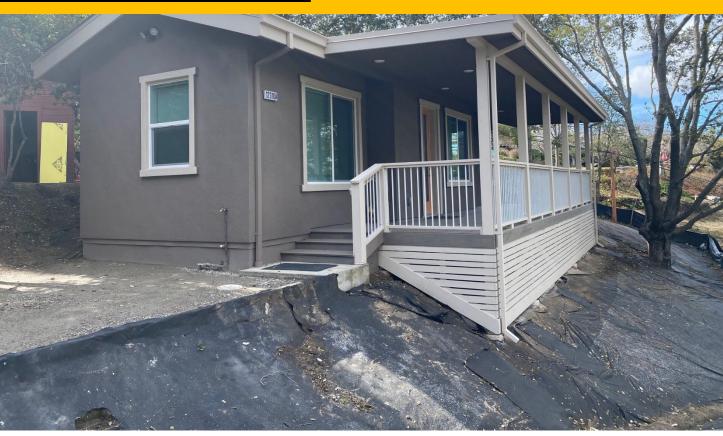
Classic

SIP wall: 6" EPS

SIP roof I: 10" EPS

HERS: CF2R & CF3R CalCerts Title 24 energy modeling for net zero ready

ACH50: Title 24 energy modeling for net zero ready HVAC:2 mini split systems – heat and cool





Premier Building Systems
Hilltop Drive ADU
Los Altos Hills, CA



2023 Overall and Best in Competition



Homes over 3,000 sq. ft.

WINNER

High Performance

ZeroEnergy Timberframe SIP House Rockwood PA

SIP wall thickness: 5-1/2" EPS

SIP roof thickness: 11-7/8" EPS

HERS: -16

ACH50: 0.88

HVAC:

Geothermal heat pump

Solar: 19.2kW

Windows: 0.11 U-factor: 0.10





Energy Panels Structures Tinkey Residence

Tinkey Residence Rockwood, PA



Thank You 2024 Sponsors!!





GOLD SPONSOR

THANK YOU TO OUR SPONSORS





































EXPO EVENT SPONSORS





























WE'LL BE Next...



JANUARY 27th, 28th & 29th / San Juan, Puerto Rico

The Awards submission deadline will be 18 December 2024

