Our unmatched experience in mechanical insulation helps protect your infrastructure investments by reducing energy consumption, noise levels, and condensation. It protects personnel and improves process control and productivity through mechanical and equipment efficiencies and longer life cycles. Let our certified I-STAR™ Energy Appraisal technicians and expert insulation contractors remove many of the obstacles to better productivity and improved operations.

**Mechanical Insulation Services:**
- Thermal Insulation Systems
- Pre-Fabricated Panel Systems
- Certified Energy Assessments
- Consulting Services
- Insulation Maintenance
- Insulation Material Sales
- Planned Outages & Turnarounds
- Removable Insulation Blankets
- Sheet Metal Lagging
- Specialized Fabrication
- Acoustic Insulation

**Industry Segments:**
- Industrial
- Petrochemical
- Pharmaceutical
- Power Generation & Transmission
- Commercial
- Cryogenic

Contact Advanced Energy Protection and let our team of experts develop a plan specific to your facility and needs.

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AdvancedEnergyProtection.com
Through our strategic alliance with Darchem Thermal Protection, we specialize in radiant heat shields for the protection of personnel, equipment and structures from heat and flames – onshore and offshore.

Darchem’s range of heat shield systems are well proven. The unique all-metallic system utilizes the effects of air flow to cool the shield and gives a heat flux reduction during flaring conditions. Darchem offers two types of Heat Shield solutions based upon the heat shield location, the incidental heat flux levels and the required reduction in thermal radiation.

**DARSCREEN**
Darscreen heat shields are based on a woven mesh design and are intended for use with lower level heat fluxes. It is commonly employed as a vertical heat shield protecting critical equipment, structures, personnel, muster points and escape routes in areas located away from flare stacks, but still exposed to unacceptable radiation levels. It’s an ideal solution for shielding against lower heat flux levels or as a barrier to inclement weather and wind conditions and is commonly employed as a vertical heat shield protecting critical plant equipment, steelwork and personnel – heat reduction up to 90%.

**Darflare**
The Darflare is a chevron system designed to protect underlying steelwork and personnel from high heat flux levels experienced during flaring operations – heat reduction up to 90%.

**Principal features of Darflare and Darscreen:**
- Lightweight
- Cost Effective
- Maintenance Free
- Greater Heat Dissipation Than Solid Systems
- See-Through Venting

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Advanced Energy Protection’s I-STAR Energy Appraisal Program uses the latest technology, including infrared/digital imaging and our state-of-the-art proprietary energy appraisal software, to quantify heat loss emanating from your mechanical systems and building envelope. Our NIA, AEE and BPI – certified technicians use the resulting data to calculate energy savings and reductions in greenhouse gas emissions to determine the optimum course of remediation. With Return on Investment (ROI) averaging less than two years, our services will provide you the quickest, most cost-effective solutions to your energy management challenges.

Failed steam traps are one of the largest problems facing building maintenance today. When a steam trap fails, large amounts of energy are unnecessarily consumed and your system works harder to try and maintain temperature and pressure. Advanced Energy Protection provides a solution with the installation of Smart Sensors. Our unique Smart Sensors integrate wireless sensors with highly efficient insulation to monitor your steam traps and provides early notice of failure to save time, money and possible interruptions of service. With Smart Sensors installed on your steam system, you will have constant access to steam component health information and reports highlighting your total energy savings.

Services:
- Mechanical Insulation Assessment
- Building Envelope Assessment
- Smart Sensors
- Blower Door Testing
- Certified Infrared Analysis
- Steam Trap Evaluation
- Airborne Ultrasonic Testing
- Scope Development

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AdvancedEnergyProtection.com
Advanced Energy Protection understands that when planning turnarounds and outages, every second spent not working is money wasted. Our planning expertise, highly-skilled and trained personnel, exemplary safety record, and sophisticated cost control management systems will optimize your downtime by tracking production, reducing costs, and shortening outage duration to help the long-term efficiency and durability of your facility.

Pre-Outage Services:
- Maintenance efficiency process reviews
- Identification of Plant Life Cycle Improvement opportunities
- Craft Training Analysis and Upgrades
- Scope Review
- Risk Assessment & Contingency Planning
- Engineering Interfacing
- Financial Analysis
- Work Planning and Scheduling

Maintenance/ Shutdown Services:
- Task Safety Analysis
- Bundled Solutions
- Material Expediting
- Labor Allocations
- Project Management
- Appropriate Craft Integration Solutions
- Scope Execution
- Process Operational Readiness Verification

Post-Outage Services:
- Scope Execution Analysis
- Maintenance Manual Document Updates
- Work package closure
- Facility Reliability and Operational Upgrade Review
- De-Mobilization
- Safety Performance Analysis

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AdvancedEnergyProtection.com
Whether you’re looking for applied fireproofing or the application or removal of industrial coatings and linings, Advanced Energy Protection has an extremely experienced workforce in place to finish the job to your exacting standards.

**Intumescent & Cementitious Fireproofing**
Fire protection materials are designed to safeguard the structural integrity of steel under intense fire conditions and to maintain safe temperatures for a specific period of time.

**Abrasive Blasting**
Our expert technicians have the ability and equipment to perform either wet or dry abrasive blasting in one of our state-of-the-art, environmentally controlled industrial booths or at your project site.

**Industrial Coatings & Linings**
We provide the application of internal linings and external coatings for tanks, pipe, structural steel, exchangers, vessels, and other equipment of any size. These coatings and linings provide critical protection against corrosive chemicals and products used in the petrochemical industry and other industrial processes.

**Painting**
Whether you’re in the manufacturing, power generation or petrochemical markets, we have the requisite experience specializing in challenging painting projects. On-site and in our shops, we bring skill and dedication to each job . . . large or small.

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AdvancedEnergyProtection.com
Advanced Energy Protection has vast experience in the successful completion of asbestos and lead abatement, mold remediation and hazardous chemical clean-up projects. We understand all the risks involved in environmental remediation projects, and can deliver a well-planned, cost-efficient solution to one of the most risky and costly portions of many projects.

**Asbestos Abatement**
Advanced Energy Protection is a fully licensed asbestos abatement contractor. Not only do we have comprehensive knowledge, we far exceed all rules and regulations enforced at the local, state, and federal levels. Our state-of-the-art equipment and excellent safety record enable us to perform any size abatement project from small glovebag jobs to negative pressure enclosures of any size. In addition, our labor force keeps up-to date with licensing, physicals and training to ensure rapid response to any of our customer’s needs, with maximum efficiency.

**Lead Abatement**
Our personnel are fully trained to remove and dispose of lead containing materials. We use state-of-the-art technology and equipment, with all of our procedures meeting or exceeding regulations including EPA and OSHA requirements. We specialize in many forms of lead abatement: Vacuum Blasting, Mechanical Abrasion, Chemical Strip, Encapsulation, and Removal/Replacement.

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AdvancedEnergyProtection.com
Advanced Energy Protection specializes in the installation of UL-classified and FM-approved firestop systems. When you choose us, you’re selecting a premier installer of passive fire protection systems for MEP penetrations, fire resistive joints and fire rated wrap and enclosure systems.

**Penetration Firestop Systems**
Advanced Energy Protection supplies and installs MEP penetration firestop systems for pipe, duct, conduit, wire, cable, cable tray, busway, and various steel penetrants (beam, joist, truss, rod, support, etc).

**Fire Resistive Joint Systems**
The protection of static and dynamic joints in the building environment is critical to maintaining life safety. Our team will identify and our craftsmen install the right system for head of wall and foot of wall openings and the perimeter gap (slab edge) between concrete decks and the building’s exterior skin.

**Slab Edge/Curtain Wall**
Our personnel are highly trained and skilled in the installation of friction fit and mechanically fastened curtain wall insulation, as well as mullion cover systems.

**Darmatt KM1™**
A fire protection barrier system developed for the protection of critical & safety electrical equipment in the nuclear & industrial markets.

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AdvancedEnergyProtection.com
DARMATT
DARMATT is designed for the protection of actuators and valves, cable routes, conduits and signal lines, junction boxes, solenoid stations, air receivers, process vessels and other equipment applications requiring fire protection. DARMATT flexible mattress systems provide excellent fire protection due to their unique construction of compressed layers of insulating fiber combined with layers of metallic foil. DARMATT is fully tested and certified for use in high-rise hydrocarbon fires such as denoted in the UL1709 and BS476 (Pt 20 Amendment 6487) fire test curves. Such fires reach approximately 2012°F within minutes. DARMATT has also been successfully explosion-tested to 1.6 bar overpressure. The DARMATT system is entirely asbestos free.

DARSHIELD
DARSHIELD-engineered enclosures are designed and manufactured specifically to fit the protected equipment. They give up to two hours protection against flame temperatures in excess of 2012°F. Features can be incorporated into the design to provide resistance to both blast and jet fire. DARSHIELD enclosures are designed to withstand the most rigorous fire conditions. They are ideal for the protection of equipment requiring ease of access. The enclosures are constructed using high thermal performance materials encapsulated within stainless steel skins. The versatility of the DARSHIELD system enables a variety of materials to be selected in order to best meet the customer specification. This ensures that the design can accommodate difficulties in location and space restrictions.

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AdvancedEnergyProtection.com
Our team is recognized as being safe, knowledgeable, and experts at installing a wide array of scaffold systems. From design and full project management to expert erection/dismantling and reliable equipment, you can count on us to provide comprehensive solutions to fit your access needs.

**Scaffolding Types & Other Services:**
- System Scaffolds
- Suspended Scaffolds
- Frame Scaffolds
- Rolling Scaffold Towers
- Material & Personnel Hoists
- Fall Protection Systems
- Sidewalk Bridges
- Wrap Enclosures
- Netting
- Debris Chutes

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AdvancedEnergyProtection.com
Advanced Energy Protection is the leader in meeting the unique application requirements required of Cryogenic Insulation applications.

Our experienced Management Team works to exceed the clients expectations of a quality insulation installation, completed safely, on schedule & within budget. We have the technical expertise, quality control, experience, oversight & trained work crews to perform low-temperature insulation applications, whether it be Multilayer (MLI), Composite Materials or Double Walled systems. Our unique combination of Management & Technical expertise ensures your insulation system will perform as designed.

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Irex Contracting Group:
A network of specialty contractors delivering exceptional value in innovation, performance, safety and service.

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