

Global Expertise. Local Execution.



Trane's established Federal Energy Savings Performance Contract (ESPC) team partners with the local Trane office closest to your site. Together we mobilize quickly and cost-effectively to plan, execute, and service ESPC/UESC projects. Trane is a recognized industry leader of high-quality HVAC equipment and controls with a worldwide network of service and parts locations to support ESPC/UESC projects. From the initial site walkthrough through the entire performance period, Trane's Federal team and local office project leaders work closely with your energy experts to create cutting edge ESPC/UESC projects that improve your bottom line, address critical infrastructure needs, and provide energy security and resiliency. This support structure creates a strong local execution model that provides a powerful base of operations and saves travel and lodging costs.



How Does Trane's Local ESPC/UESC Delivery Model Benefit Your Organization?

- Established relationships with local subcontractors, suppliers, and designers
- Knowledge of local labor work practices
- Understanding of area logistics (deliveries, storage, hoisting)
- Staffed with safety professionals who understand project sites and work environment
- Reduced travel/lodging costs saves the Government money
- Fast mobilization and response time when service is required



Expertise in DoD Risk Management Framework (RMF)

- Trane's systems and software are cyber-secured via the RMF process to utilize DoD networks
- Trane works with DoD sites to secure Interim Authority to Connect, Interim Authority to Test, and Authority to Operate

Trane® has been a qualified DOE ESCO since 1998

- \$78M+ annual taxpayer savings*
- \$4M in guaranteed rebates
- 30% average energy reduction from baseline

**Taxpayer savings include ESPCs in development.*

Controls Expertise

Trane is one of the largest Building Automation Systems (BAS) and Energy Management Control Systems (EMCS) manufacturers and integrators. Our equipment, controls, and building automation can easily integrate with third party equipment and systems (including: SCADA, UMCS, Microgrid, Solar, Cogeneration, Liquefied Natural Gas, and Water System Monitoring). We have performed BAS/EMCS system integrations and Smart Grid-Advanced Metering interfaces, controls, and reporting at the following DoD sites:

- **Altus AFB**, 33 buildings
- **Fort Drum**, 188 buildings
- **JB Charleston**, 125 buildings
- **Marine Corps Installations Pacific (MCIPAC) (development phase)**
 - **Camp Courtney**, 33 buildings
 - **Camp Foster**, 107 buildings
 - **Camp Fuji**, 10 buildings
 - **Camp Hanson**, 65 buildings
 - **MCAS Iwakuni**, 121 buildings
- **Misawa Air Base (construction phase)**, 99 buildings
- **NAS Jacksonville**, 87 buildings
- **NAS Oceana and Dam Neck Annex**, 72 buildings
- **Osan Air Base (construction phase)**, 106 buildings

As a vendor-neutral ESCO, Trane manages and installs other manufacturer's systems. As part of the \$114M GSA Region 2 ESPC, Trane procured, managed, and commissioned the installation of a \$12.8M BAS across 10 buildings / 8,174,094 sf. All systems are linked to the GSA National Office Metering Analysis system GSA.gov.

Trane's approach has been proven on projects for the Defense Logistics Agency, Department of Interior, Department of State, Navy, Army, Air Force, U.S. Forest Service, U.S. Geological Survey, and the General Services Administration. All of our projects have exceeded the guaranteed energy savings and we have been hired for six follow-on ESPC projects at three DoD locations.



TRANE ESPC/UESC RESOURCES

- 48 ESPC/UESC Project Developers
- 240 Certified Energy Managers (CEM)
- 182 Professional Engineers (PE)
- 175 HVAC Controls Engineers
- 700 Degreed Engineers
- 133 Project Managers
- 44 Energy Engineers
- 30 Quality Control Specialists
- 11 M&V Engineers
- 58 EH&S Specialists
- 60 Trainers
- 666 LEED® Accredited Professionals
- 30 Commissioning Agents
- 100 Certified Six Sigma Professionals

TRANE TEAM RESOURCE/ EXPERTISE POOL

- Renewable Energy and Power Systems Team
- Energy Procurement Management Team
- Compressed Air Team
- HVAC Application Engineering Team
- Controls Engineering/Design Team

Development Advantage

- **Established relationships** built through our vast commercial/government contracting portfolio—with skilled local designers, suppliers, and subcontractors
- **Experienced Technical Project Developers** dedicated to ESPC/UESC activities
- **Renewable Energy and Power Systems organization** focused on new technology research and development and ECMs including renewable power generation and combined heat and power (CHP) solutions

Implementation Advantage

- **Understanding of local labor work practices** (union vs. non-union)
- **Insight into logistics of working in area / on site** (i.e., deliveries, storage, hoisting)
- **Knowledgeable safety professionals** that understand the project sites and work environment

Performance Period Advantage

- **O&M, service repair/ replacement support, and M&V / performance data logging services** are administered from your community
- **2,100+ factory-trained service technicians and over 230 Trane Supply locations.** Local service centers stock O&M and service-repair parts (over 20,000 SKUs per location), equipment, and supplies
- **Local Trane offices answer service calls**—not third party contractors
- **Optional centralized monitoring and dispatching services and 24/7 support teams** for installed equipment and systems



With a world class Experience Modification Rating (EMR) of 0.55, Trane implements ESPCs safely. Every project has a dedicated EH&S Specialist that conducts scheduled and random safety audits on subcontractor work to ensure compliance with the Project Safety Plan and Government requirements. Any safety issues are addressed and reported immediately.

Awards

- **Naval Air Station Oceana ESPC**
 - 2014 Federal Energy Management Program Award of the Year
 - 2014 Secretary of the Navy, Large Installation of the Year
- **Dam Neck Annex ESPC**
 - 2009 Presidential Award for Leadership in Federal Energy Management
- **Charleston Air Force Base ESPC**
 - 2011 Air Force Air Mobility Command Civil Engineer Energy Conservation Award
 - 2009 Air Force Air Mobility Command Energy Incentive Award
- **U.S. Forest Service ENABLE**
 - 2019 Regional Forester's Honor Awards
 - "ENABLE Off-Grid Mobile Solar PV & LED Lighting Project"

Contracting Vehicles

- Department of Energy, ESPC IDIQ
- U.S. Army Corps of Engineers, ESPC III MATOC
- GSA Schedule 84
- GSA Schedule 03 FAC

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Energy Project Performance Contracting Experience and Expertise

Federal ESPC Project	Boiler Plant	Chiller Plant	BAS/EMCS	HVAC	Lighting	Building Envelope	CW/HW/Steam	Electric Motors & Drives	Refrigeration	Distributed Generation	Renewables	Energy/Utility Distribution Systems	Water and Sewer	Electrical Peak Shaving	Rate Adjustments	Process Improvements	Commissioning	Advanced Metering
8th Army Garrison, South Korea			X								X							
Joint Base Charleston NAWS			X		X								X					
Dam Neck Annex - Phase I	X	X	X	X	X		X	X			X		X					
Fort Drum			X		X			X			X	X	X				X	
GSA Region 2	X	X	X	X	X	X	X	X		X		X	X					
GSA Region 5 Hart Dole Inouye	X	X	X	X	X	X	X	X					X					
GSA Region 6 Goodfellow	X		X	X	X	X		X	X			X	X					
Charleston AFB	X	X	X	X	X		X	X			X		X					
MCAS Beaufort - Phase I and II	X	X	X	X	X	X	X	X			X	X	X					
MCAS Beaufort - Phase III			X	X	X			X			X		X					
Misawa Air Base Construction Phase	X	X	X	X	X	X	X	X		X	X	X		X	X		X	X
NAS Oceana - Phase I	X		X	X			X				X							
NAS Oceana - Phase II	X	X	X	X	X		X				X		X					
Dam Neck Annex - Phase II	X	X	X	X	X		X						X			X		
Naval Base Kitsap			X	X		X					X							
NUWC Keyport			X	X	X			X			X					X		
Osan Air Base Construction Phase	X	X	X	X	X	X	X	X			X		X			X		
Pine Bluff Arsenal	X	X	X	X	X		X	X			X	X						
Sierra Army Depot			X	X	X						X						X	
U.S. Dept. of State, Seoul, South Korea						X		X			X							
US Forest Service Region 5					X						X							
USGS Great Lakes Science Center			X		X		X				X		X					

ESPCs in Development include: Marine Corps Installations Pacific (MCIPAC), 5 locations, Japan

Learn more at trane.com



Trane – by Trane Technologies (NYSE: TT), a global climate innovator – creates comfortable, energy efficient indoor environments through a broad portfolio of heating, ventilating and air conditioning systems and controls, services, parts and supply. For more information, please visit trane.com or tranetechnologies.com.

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