

VRF Energy Allocation

Energy Allocation is now available with
Trane® / Mitsubishi Electric VRF and Tracer® SC+



Trane® / Mitsubishi Electric VRF Systems strive to deliver the best experience with electrification solutions. Now available through Tracer® building automation system, energy allocation for VRF gives you full insight into the system with vast amounts of data so you can monitor performance and keep building occupants comfortable.

What is energy allocation?

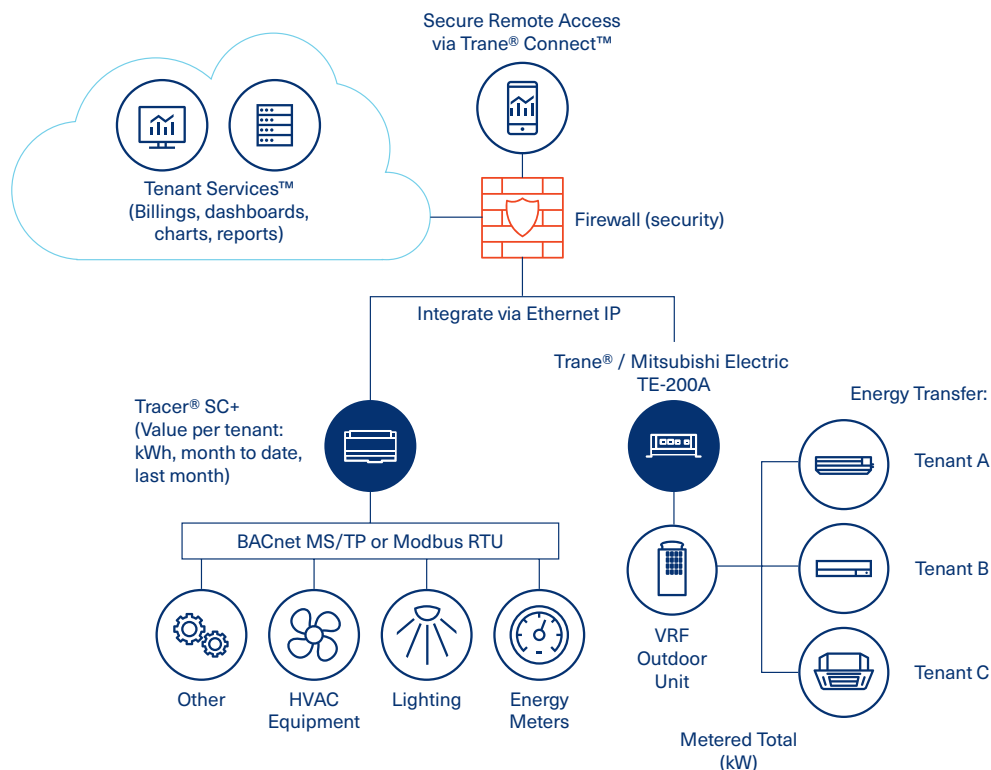
Energy allocation is an estimation of the energy consumed by a space in relationship to the whole energy of the system. Its total energy is calculated by metering the electric demand at each system's outdoor unit(s). The tenant energy usage or energy transferred into their space is calculated by monitoring the operation of each indoor unit for airflow and heat transfer. This is then used to calculate their energy consumption as a part of the total energy measured at the outdoor unit meter.

There are several methods of energy allocation; here are the most common:

1. Thermal load calculation
2. Space square footage
3. Unit operating time

The Trane Solution

The solution includes Trane® / Mitsubishi Electric VRF equipment, Centralized Controller(s), Tracer SC+, and an electric meter for every refrigerant system. The Tracer SC+ is also the Building Automation System to manage the building operation. Tenant Services is an additional offering for billing, reporting, and other user enhancements.



Get more from your Energy Allocation Solution with Tracer® Enhancements

Tenant Services

Tenant Services is a cloud based, software-as-a-service tool that can provide the most value to your business. With Tenant Services, building owners are enabled to administer and control user permissions and access. It also allows you to track, adjust, report on, and charge-back energy use by tenants and departments.

Simple Invoice Generation

- Designed for building managers to easily set up and use themselves.
- Flexibility with 24-hour or after-hours billing options.
- Invoice based on square footage, metering, or operating hours.
- Capability to review and edit invoices before delivery.

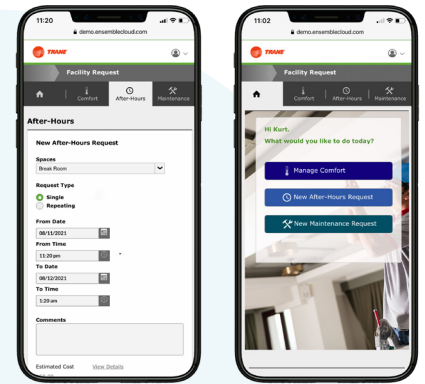
The screenshot shows a Trane invoice for HVAC usage. It includes the Trane Technologies logo, invoice number RA/0072, invoice date May 01, 2023, and billing period Apr 1 - Apr 30, 2023. The bill is to Chao & Co. The invoice details include a table for After-Hours Charges with columns for Start Time, Stop Time, Building, Zone, Employee, Hours, Hourly Rate, and Total. It also includes a table for Usage Charges with columns for Name, Beginning Reading, Ending Reading, Usage, Rate, and Total. The invoice total is \$100,574.83.

Start Time	Stop Time	Building	Zone	Employee	Hours	Hourly Rate	Total
Thu 14 Apr 2023 12:00 PM	Thu 14 Apr 2023 06:00 PM	White Bear Lake SC	new	Tyler Canterbury	0	\$ 50.00	\$ 0.00

Name	Beginning Reading	Ending Reading	Usage	Rate	Total
HVAC Usage Meter	565,842.88 Kilowatt Hours	739,217.71 Kilowatt Hours	169,574.83 Kilowatt Hours	\$ 1.00	\$ 169,574.83

Name	Charge
VAF surcharge	\$ 0.00

Invoice Total: \$ 169,574.83

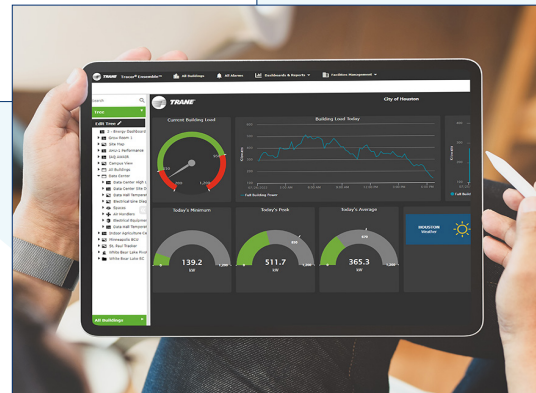


Mobile friendly experience for building and tenant management

- Flexibility with 24-hour or after-hours billing options.
- Schedule common spaces for events.
- Enable facility managers to have full control while allowing some controls to their tenants.

Enhancements Provided by Tracer® Ensemble®

Tracer® Ensemble® is an enterprise-wide building management system with a cloud-based software-as-a-service (SaaS) platform, hosted and maintained by Trane.



Work Order Management

Work Order Management helps building owners to prioritize, schedule, and track corrective and preventative maintenance. It automatically generates maintenance work orders from tenants to help facilitate collaboration between the building manager, service staff, and tenants—who can all create, assign, track, and report on submitted work orders.

Energy Analysis

Tracer Ensemble allows facility managers to measure and compare building performance across assets while tracking and verifying energy usage and savings. These insights can be accessed via intuitive dashboards equipped with animated equipment illustrations, supporting intuitive system management.

Do more; Know More; Accomplish More.

Trane goes beyond just billing tenants—we are introducing a collaborative solution with all stakeholders involved. With greater visibility to the system energy usage, energy allocation provides facility managers the tools to manage tenant comfort, tenant service-related activities, and help improve overall tenant retention.



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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