

BIC

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BRANDSAFWAY: DELIVERING SAFETY, PRODUCTIVITY, SAVINGS

BrandSafway has more ways to help customers add up the savings through digital workites, leak detection and repair, rope access, refractory innovations, winterization, elevators and freestanding hoists.

TWS FINDING SUCCESS WITH 'ONE APPROACH' PHILOSOPHY

With its "one approach" philosophy, Turnaround Welding Services (TWS) creates a winning environment for its clients and employees. TWS' clients receive the "power of teamwork" while its employees work for a company that helps create the American Dream.

FEATURES

Zervoudis leads Covestro's Baytown site during 50-year celebration

Eastman's Harris: St. Gabriel site's products matter more than ever

Ropes: The 'new' solution in industrial access

LyondellBasell, Dow: Plastics remain vital in changing world

Chevron's Wirth: 'Intersection' is key to future innovation

What to know about the emerging, evolving hydrogen economy

ConocoPhillips' Currie: Key variables impact future oil market

Keys to a successful turnaround partnership

MSC's Callahan: Shale benefits an 'incredible opportunity'



ADD UP THE SAVINGS



BRAND SAFWAY®

At Work For You™

Add up the **SAVINGS**

Digital worksites, leak detection and repair (LDAR), rope access, refractory innovations, winterization, elevators and freestanding hoists – BrandSafway has more ways to help customers save time and money on projects, in addition to work access solutions and industrial services like fireproofing, insulation and coatings. >



Tracking Increased **Productivity**

**smart
digital**
WORK SITE

BrandSafway's suite of digital tools modernizes construction sites and improves efficiency through better planning and analysis. Track inventory through the cloud, measure data for project baselines and long-term strategy, use 3D models to visualize and communicate work, and more.

- > BrandNet® – Proprietary software for planning and managing projects
- > Laser scanning – Render digital walk-throughs
- > Field work packages – Improve efficiency on site
- > BIM interface – Enhanced visual work packages
- > Advanced KPIs – Detailed reporting
- > Contracts – Save more with long-term partnerships
- > ProField, SmartPlan, SmartTag – Digital tools for planning and tracking inventory

REFINERY SCAFFOLD BUILD - CASE STUDY

> Fewer modifications, less labor needed
Products and services delivered: BrandNet®, workplace planning, scaffold

**IMPROVED 10%
PRODUCTIVITY**



Industry-Leading **Solutions** **Refractory**

BrandSafway offers innovative, cutting-edge technology that can safely generate huge cost savings on refractory projects using our suite of proprietary tools.

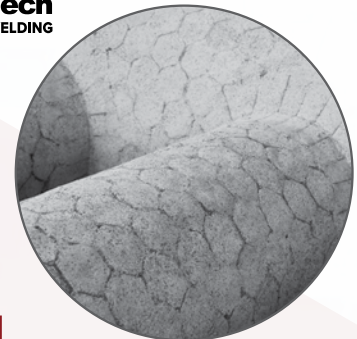
- > BrandTech® Precision Welding – Computerized stud-welding that saves 80% on labor
- > Quik-X® – Refractory anchoring that requires 44% fewer welds
- > BrandTech® Power Distribution Unit – Simplified PDU that saves 40% on equipment costs
- > 3D Precast Shapes – 90% less downtime on intricate foam shapes

FCCU CYCLONE RELINE - CASE STUDY

> 13 fewer shifts and a reject rate of .007%
Products and services delivered: BrandTech® Precision Welding

**SAVED
OVER \$4M**

BrandTech
PRECISION WELDING



State-of-the-Art **Technology**

LDAR With over 40 years of experience and the best available equipment and technology, BrandSafway provides a full range of LDAR solutions, delivered by skilled craftspeople and technicians with the expertise to handle even the most demanding jobs. Project management, backfill labor, off-site data centers and technical support allow for additional efficiencies and cost savings.

- > Detection – Optimized monitoring routes
- > Imaging – Greenhouse gas and alternative work practice
- > Repair – Fix leaks faster
- > Tagging and inventory – Digital services streamline process
- > Remote data management and reporting – Customizable KPIs and QA/QC

TURNKEY LDAR SOLUTION - CASE STUDY

> 7% savings on LDAR across entire chemical plant
Products and services delivered: Streamlined monitoring route with route stamps, GPS and proprietary software; management of change process integrated with missing tag installations; used BrandSafway's on-site overhead to reduce costs

**SAVED
\$84,000
ANNUALLY**



“BrandSafway doesn’t simply offer the widest array of products and services, we continuously introduce new options and synergies,” said Dave Witsken, President, Industrial, Energy & Commercial for BrandSafway. “We’ve brought numerous innovative products to market and offer cutting-edge technologies to increase productivity on industrial jobsites. And we’re prepared to ‘show you the money’ by measuring and tracking on-site productivity and offering performance-based contracts.”

BrandSafway can also show customers how their sites perform relative to other similar sites, so you can benchmark your progress against similar projects across the industry. “With over 100 years of experience, BrandSafway has taken the best practices from hundreds of thousands of jobsites worldwide to help you work more efficiently on your next maintenance turnaround, ongoing repair, emergency project or new construction and expansion plans,” said Witsken.

Safe, Quick & **Effective** Rope Access

Get craft work done at height using BrandSafway’s specialized rope access teams. Used as an independent solution or in combination with other access methods, rope access is quick to set up, has a small footprint, can access difficult to reach areas and lowers equipment costs.

- › Experience – Over 300,000 hours on rope
- › Safety – Zero recordables
- › Training – Level III certification from IRATA
- › Applications – Refractory, coatings, insulation and more

TANK LINER REPAIR - CASE STUDY

- › No damage to lining due to using rope access

Products and services delivered: Rope access painting services

**SAVED 40%
VS SCAFFOLD**



Comprehensive **Motorized Solutions** Elevators & Hoists

BrandSafway will ensure you get the right motorized access for your site. Alongside in-house design, project engineering and field project management, BrandSafway offers mobile material hoists for easy lifting as well as elevators with Class 2 explosion-proof variants and suitability for Class 1 Division 2 Hazardous Areas and Gas Groups B, C and D.

- › Permanent elevators – Custom designs/capacities available
- › Temporary elevators – Standard capacity of 7,000 lbs.
- › Mobile (free-standing) hoists – Easy to set up and move
- › Engineering – Project-specific solutions

CONTINUOUS PRESENCE REFINERY - CASE STUDY

- › Mobile hoist took scaffold lifting from 10-person job down to two-person job

Products and services delivered: Mobile material hoist

**SAVED
\$260,000
ANNUALLY**



Conquer the Elements Winterization

Protect your facility, equipment and pipelines. Maintain uniform processing temperatures. With more than 20 years of winterization experience, BrandSafway delivers trained and certified expertise – from maintenance programs and troubleshooting to outage and turnaround services – to keep your site running optimally even in extreme temperatures.

- › Heat tracing – Audits, design, supplies and installation
- › Thermal surveys – Imaging, analysis and reporting
- › Insulation – Widest array of products, services and programs
- › Abatement – Asbestos and lead

TURNKEY WINTERIZING SOLUTION - CASE STUDY

- › Included 5 generating Stations and 12 operating units in Texas

Products and services delivered: abatement, heat tracing, insulation and scaffolding, 135,000 feet of heater cable, 80,000 feet of conduit, 250 instrument enclosures and 67 transformers and panels.

**COMPLETED
1 MONTH
AHEAD OF SCHEDULE**



Conquer the Elements **WINTERIZE**

Protect Your Facility, Equipment & Pipelines

Maintain uniform processing temperatures and protect your facility, equipment and pipelines from freezing. With more than 20 years of winterization experience, BrandSafway delivers trained and certified expertise to keep your site running optimally even in extreme temperatures. We offer turnkey solutions, maintenance programs, outage and turnaround services, and troubleshooting.

Complementary wraparound services include scaffolding, fireproofing, coatings, local labor, project management and more.

› Heat Tracing

From audits and design to supplies and installation



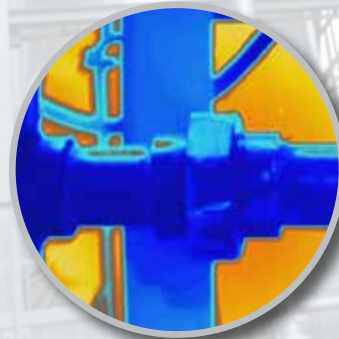
› Heat Tracing Audits

A comprehensive assessment of system integrity



› Thermal Surveys

Imaging, analysis and reporting



› Insulation

Widest array of products, services and programs



› Abatement

Asbestos and lead



› Rope Access

Safe, fast, with small footprint

