



CLIPTECH

Hands-on EPC Energy Solutions™

Engineering, Procurement
and Construction
for
Institutional, Industrial
and Municipal Energy Centers



The “Lipten Difference,” and What It Means to You...

In a word, the Lipten difference is “ownership.”

We bring to the table integrity, work ethic and character at all levels. Our reputation in the industry is unsurpassed, and we protect it by treating your project as if it were our own.

Our approach starts with a deeper involvement.

This deeper involvement starts before work ever begins. Our engineers review every specification of your project. Our estimators research every detail to assure the right equipment is specified, delivering the best value for your investment. Because all the details are addressed up front, it's with confidence that we say, Lipten proposals are the most comprehensive and detailed in the business.

On a day-to-day basis, our efforts ensure total communications among all parties – from project managers to engineers to energy operations personnel. And, if you ever have a question, you'll always be able to reach us.

We work side-by-side with your staff to address challenges, discuss alternatives, and literally roll up our shirtsleeves to bring your project in on time, within budget and to specifications.



The result:

We've earned the reputation within the industry as the “Hands-On EPC Energy Solutions™” company, helping hundreds of clients across North America achieve their goals.



Single-Source Convenience Single-Source Responsibility

Engineering

- Design systems for new construction
- Design systems for upgrades
- Design complete facilities
- Conduct system integration studies
- Consult on engineering
- Evaluate design options and provide alternate solutions

Procurement

- Procure new equipment
- Manage equipment installations, testing and start-up
- Evaluate equipment options and provide alternate solutions

Construction

- Supervise site preparation
- Fabricate system components
- Manage facility construction
- Provide facility start-up services
- Evaluate site options and provide alternate solutions

Training & Maintenance

- Provide on-site training
- Offer service and maintenance contracts
- Arrange comprehensive warranties
- Schedule environmental and safety compliance inspections

Financing

- Arrange leasing
- Arrange financing
- Arrange own-and-operate transactions



Specialists in Energy Centers, Control Systems and Related Projects

Lipten...A Proven EPC Provider Since 1969

Throughout the years, the power generation industry has confronted challenge after challenge, including environmental regulations, safety compliance issues, fuel price increases, deregulation and heightened competition.

Faced with these challenges, energy center owners and operators have looked to Lipten, and we've responded.

The Lipten team applies high efficiency, low emissions equipment in conjunction with advanced digital controls, to provide our clients with the systems they need to address their operational and environmental concerns. We are a single source provider, offering proven EPC services on a complete turnkey basis for new energy

center construction as well as re-powering projects and equipment updates.

We have the financial resources required to participate in large-scale projects. We are regularly awarded multi-million dollar contracts, yet we are just as competitive when a contract calls for maintenance, service or upgrades.

As an organization that specializes in energy center-related EPC projects, Lipten is always price competitive. And, with 30-plus years of serving institutions, industries and municipalities, across the United States and Canada, we have a rock-solid record of accomplishment.



HANDS-ON SERVICES
BENEFIT YOU

Central Soya Company

LaFarge Cement

Battle Creek (MI) Water Treatment Plant

Tri-Mer Corporation

Holland (MI) Power

OHM Corporation

The EPC service provider of choice by clients across North America

In selecting Lipten as your EPC service provider, you join a long list of satisfied customers. Satisfaction measured by the fact that a large percentage of our business comes from trade referrals and repeat customers. What's more, Ford Motor Company, General Motors Corporation and Daimler-Chrysler have awarded us their coveted "Tier One" status.

*"We have great customers,
because we have great people
that treat them right."*

Detroit Edison

Delphi Corporation

Georgia-Pacific Corporation

General Motors Corporation

Consumers Energy

IBM Corporation

Ford Motor Company

Medusa Cement Company

University of Louisville

Gerber Food Products

DaimlerChrysler Corporation

National Steel Company

Oakwood Healthcare Systems

Detroit Metropolitan Airport

Pharmacia Corporation

Raytheon Company

Toyota Corporation

Bowling Green State University

Ferris State University

Cincinnati (OH) Water Treatment Plant

Euclid (OH) Water Treatment Plant

Lansing (MI) Board of Power and Light

Lansing (MI) Water Treatment Plant

Trenton (MI) Water Treatment Plant

Warren (MI) Water Treatment Plant





Hands-on EPC Energy Solutions

Lipten 'Ownership'... On Every Project

From conception to installation and operation, our dedicated team will be there, ready and available to complete your energy center project.

With a turnkey project, our professionals work closely with you to develop initial concepts, conduct a feasibility analysis, and create a preliminary design.

Our hands-on approach is then applied to engineering, procurement and installation of the equipment.

Testing, integration with control systems, start-up, and compliance to regulatory standards are implemented.

Finally, to help keep your system running at peak efficiency, we will train your operations personnel to manage your system. We also offer warranty maintenance contract coverage that puts our fully trained experts to work maintaining your equipment.



"It's a proud moment the first time a system powers up.

It's been a lot of work, but now we're making power."

High efficiency replacement boiler for a medical center.

HANDS-ON
EPC ENERGY
SOLUTIONS



Low-NOx burner upgrade for an automotive assembly plant.

Proven experience in:

- Natural Gas/Fuel Oil Fired Power Plants
- Biomass-Fired Power Plants
- Chiller And Cooling Water Systems
- Coal-Fired Power Plants
- Industrial Re-Power Projects
- Low-NOx Burners
- Hot Water Generator Projects
- Single- and Dual Wall Stacks
- Landfill Energy Recovery Systems
- Reciprocal Engine Power Plants
- Turbine Engine Power Plants
- Vertical-Fired Burners
- Waste Heat Recovery Systems
- Associated Ancillary Equipment

Delivering Power and Performance

We are proud of the recognition we have received from our customers on a variety of projects including natural gas/fuel oil, biomass and coal-fired boilers, reciprocal-engine and turbine-engine power plants.

We have also provided exceptional EPC services for chillers, cooling towers and burners of all types as well as hot water generators and energy recovery systems.

Rounding out our services are the erection of buildings, single- and dual-wall stacks and water treatment facilities.



Livonia Transmission Plant
36200 Plymouth Road
Livonia, Mich. 48150

To whom this may concern,

The Lipten Company has been providing services to the Livonia Transmission Plant Powerhouse since 1992. They were the General contractor for the conversion to Gas, from coal, on #3 and #4 boilers. They were also the contractor used to convert #1 boiler from dual to single burner. They were also involved in all the control work for the upgrades of our boiler feed water system.

At present, we use the Lipten Co. for all of our control work performed on our boilers and have found them to be receptive to addressing our concerns. The last job we used them for was in January, 2000 when we did load tests on all boilers. I will continue to use their services for all of our boiler needs and highly recommend them as reliable.

Lawrence A. Trahan
Chief Powerhouse Engineer
Livonia Transmission Plant
(734) 458-0303

Pat Khurana
Facilities Engineer
Livonia Transmission Plant
(734) 523-4623



Control Systems that Set Standards

Proven experience in:

- Boiler Control Systems
- Burner Management Systems
- Combustion Control Systems
- Facility Control Systems
- Plant Master Control Systems
- Power House Control Systems
- Process Control Systems

Meeting needs, setting standards...

Lipten's experience and expertise applies to every area of your energy center, including its control systems.

Our control systems are designed in close cooperation with your engineers after a careful assessment of your requirements. We employ the latest digital controls technology (PLC, DCS & SLC), which can be interfaced with other systems to enhance overall efficiency. We will train the operations personnel, provide detailed documentation and offer additional assistance as needed.

Our success in meeting the needs of clients in this area is well documented. We are proud that Lipten control systems are now the standard for several Fortune 500 companies.



GM
General Motors Corporation
Worldwide Facilities Group
Capital Projects

Lipten Co.
26054 Center Oaks Ct
Wixom, MI 48393
Attention: Mr. Jim Spencer

Dear Jim,

I am writing to thank you for your efforts and the work that Lipten Co. has performed for the New Power Center project at GM North America Flint site. The project involved removal and relocation of three (3) 100,000 #/hr gas fired boilers to the Flint site, and installation of the boilers with new PLC based controls. The work performed and services provided by Lipten Co. representatives were very comprehensive and professionally done. Lipten Co. has been very responsive to the changing site needs and schedule, and has acted responsibly toward project completion.

It has been a pleasure working with you and the Lipten Co. team on this project. Please feel free to use this letter as a reference for your company. I look forward to working with you in the future.

Sincerely,
Tim Strauss
Sr. Project Manager
GM Worldwide Facilities Group



Additional Products and Services

The Products and Services You Need

Today, our clients are looking to us for an ever-increasing array of solutions. Some of these are addressed through our general contractor services where we can take total responsibility for the construction of energy centers as well as other industrial and commercial buildings or additions.

Additional needs such as equipment procurement, inspection and testing services, engineering services and installation of customer supplied equipment, are met by Lipten's resourceful staff – always there, hands-on, working for you.

Your Solutions Start and End Here

There are many ways in which you can benefit from Lipten's fully involved, hands-on approach and more than 30 years of experience.

Contact one of our regional managers for a no-obligation discussion. They will be happy to discuss how Lipten can deliver your EPC energy solutions and general contracting needs.

Proven experience in:

- Design and Consulting Services
- General Contracting
- Energy Audits
- Service Contracts
- Spare Parts
- Boiler Load Testing
- Installation Services
- Water Treatment Systems
- Compressed Air Systems
- Emergency Power Systems
- Project Management

Repair and maintenance services.



SPECIALIZED
PRODUCTS/SERVICES

LIPTEN

Headquarters

28054 Center Oaks Court
Wixom, MI 48393
Tel: 248.374.8910
800-860-0790
Fax: 248.374.8906

U.S. Coastal Office

98 Guinea Road
Monroe, CT 06468
Tel: 203.452.7117
Fax: 203.452.7017

U.S. Central Office

400 West 4511 South
Russiaville, IN 46979
Tel: 765.883.7190
Fax: 765.883.5916

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561 Duncan Avenue
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Lipten Company

Hands-on EPC Power Solutions

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