# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

### FORM 8-K

CURRENT REPORT
PURSUANT TO SECTION 13 OR 15(d)
OF THE SECURITIES EXCHANGE ACT OF 1934

Date of report (Date of earliest event reported): November 19, 2014

## LSB INDUSTRIES, INC.

(Exact name of registrant as specified in its charter)

Delaware (State or other jurisdiction of incorporation) 1-7677 (Commission File Number) 73-1015226 (IRS Employer Identification No.)

16 South Pennsylvania Avenue, Oklahoma City, Oklahoma (Address of principal executive offices)

73107 (Zip Code)

Registrant's telephone number, including area code (405) 235-4546

Not applicable

(Former name or former address, if changed since last report)

k the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General action A.2. below):
Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
Pre-commencement communications pursuant to Rule 13e.4(c) under the Eychange Act (17 CFR 240 13e.4(c))

#### Section 8 – Regulation FD

#### Item 8.01. Other Events.

The Company intends to disclose certain information to prospective investors in the form of an Investor Presentation, which is being held during the third week of November 2014. The Company is furnishing the Investor Presentation as Exhibit 99.1 to this Current Report on Form 8-K, which lists or discusses certain disclosures about the Company and its business. A copy of the Investor Presentation, dated November 2014, is also publicly available at: http://investors.lsbindustries.com. The content of such website is included for general information only and is not incorporated by reference in this Form 8-K.

#### Section 9 - Financial Statements and Exhibits

#### Item 9.01. Financial Statements and Exhibits.

#### (d) Exhibits.

99.1 Investor Presentation, dated November 2014.

### **SIGNATURES**

Pursuant to the requirements of the Securities Exchange Act of 1934, the Company has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: November 19, 2014

LSB INDUSTRIES, INC.

By: /s/ Jack E. Golsen

Jack E. Golsen, Chief Executive Officer



# LSB Industries, Inc.

NYSE: LXU

November 2014

## Safe Harbor Statement

The information contained in the presentation materials contain certain forward-looking statements. All these statements, other than statements of historical fact, are forward-looking statements.

Statements that include the words "expect," "intend," "plan," "believe," "project," "anticipate," "estimate" and similar statements of the future or of a forward-looking nature identify forward-looking statements, including but not limited to, all statements about or in references to the Architectural Building Index, Dodge Construction Green Outlook, or any McGraw Hill forecast, any references to future natural gas costs, ammonia costs, grain or corn demand or production, construction trends and demand, and the outlook for the chemical or climate control business.

The forward-looking statements include but are not limited to the following statements: major investments to reduce costs and increase facility reliability; positioned to benefit from strong agricultural market and economic recovery; product balance options; production capacity; impact of capital expansion projects; estimated completion and start up dates for new chemical facilities and their cost and production capacity; planned capital spending; outlook for Chemical and Climate Control; turnaround at Cherokee; future maintenance activities; Pryor facility reliability; Climate Control's product sales; sales growth Q4 2014 and 2015; LEAN impact; future outlook.

You should not rely on the forward-looking statements because actual events or results may differ materially from those indicated by these forward-looking statements as a result of a number of important factors. We incorporate the risks and uncertainties discussed under the headings "Risk Factors" and "A Special Note Regarding Forward-looking Statements" in our Form 10-K for the fiscal year ended December 31, 2013 and Form 10-Q's for the periods ending March 31, 2014, June 30, 2014, and September 30, 2014, which contain a discussion of a variety of factors which could cause the future outcome to differ materially from the forward-looking statements discussed in this investor presentation. We undertake no duty to update the information contained in this investor presentation.

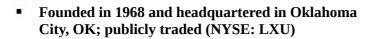
The term EBITDA, as used in this presentation, is net income plus interest expense, depreciation, amortization, income taxes, and certain non-cash charges, unless otherwise described. EBITDA is not a measurement of financial performance under GAAP and should not be considered as an alternative to GAAP measurement. The reconciliation of GAAP and any EBITDA numbers discussed in this investor presentation are included in the appendix of this presentation.

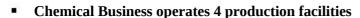
# Company Overview

## **Business Overview**

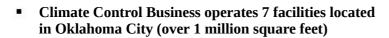
 Diversified industrial manufacturer of chemicals and HVAC products sold into a wide range of end markets

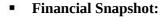
Net Sales by Business Segment – LTM 9/30/14



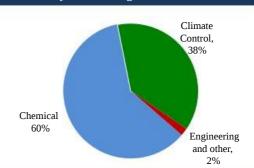


- El Dorado Chemical Company ("EDC") (Arkansas)
- Cherokee Nitrogen LLC (Alabama)
- Pryor Chemical Company (Oklahoma)
- El Dorado Nitric LLC ("Baytown") (Texas)

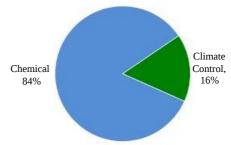




- LTM 9/30/14 Net Sales of \$700.3 million
- LTM 9/30/14 Consolidated Adjusted EBITDA of \$154.0 million<sup>(1)</sup>







Note: Excludes unallocated corporate expenses

LSB operates a well-diversified business with differentiated market positions across two distinct business segments

Note (1): Includes insurance proceeds of \$104.2 million

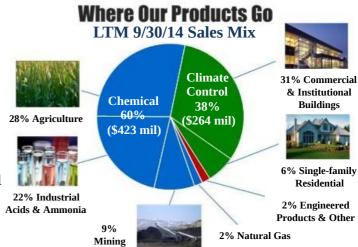
## LSB's Two Core Businesses

### **Chemical**

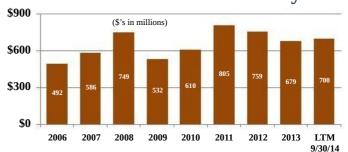
- Provides nitrogen based agricultural, mining and industrial chemicals to North American market
- Leading merchant marketer of nitric acid in the U.S.
- Major investments underway to reduce costs and increase facility reliability and capacity
- Positioned to benefit from strong agricultural market with favorable margins

### **Climate Control**

- Provides specialty HVAC products to commercial, institutional and residential new construction, renovation and replacement markets, emphasis on green products
- Market and technology leader for water source and geothermal heat pumps, and hydronic fan coils
- Poised to benefit from the economic recovery, long-term trend toward green construction, and growth of emerging products



## **Consolidated Sales History**



# Business Segment Overview

# Chemical Markets and Products

Market	Products	Uses	Competitors
Agro-	Urea Ammonium Nitrate Solutions (UAN)	Fertilizer for corn and other crops	CF Industries, PCS, Koch Industries, Rentec, Coffeeville Resources, imports
Chemical (46% of sales)	Ammonium Nitrate - high density prills (AN)	Primary nitrogen component in NPK fertilizer blends	CF Industries, imports
	Anhydrous Ammonia	High nitrogen content fertilizer primarily used for corn	Various
	Nitric Acid	Semi-conductor, nylon, polyurethane intermediates, ammonium nitrate	CF Industries, PCS
Industrial Acids, Ammonia &	Sulfuric Acid	Pulp and paper, alum, water treatment, metals and vanadium processing	Cytec, Chemtrade Logistics
DEF (36% of sales)	Anhydrous Ammonia	Power plant emissions abatement, water treatment, refrigerants, metals processing	Various
	Diesel Exhaust Fluid (DEF)	Exhaust stream additive to reduce $\mathrm{NO}_{\mathrm{x}}$ emissions from diesel vehicles	Various
Mining Products	Ammonium Nitrate – low density prills (AN) and AN solutions	Specialty emulsions for mining applications	CF Industries, PCS, Dyno Nobel America
(15% of sales)	Specialty E2 Ammonium Nitrate	Surface mining, quarries, construction	Imports

## Attractive Industry Fundamentals – Agro Chemicals

#### **World Situation:**

- Growing populations
- Developing economies
- Changing dietary habits (from grain to meat)
- Worldwide grain stock-to-use ratios at 10-year highs

#### **North American Situation:**

- World grain shortages positively impact grain requirements in the U.S.
- During last 3 years U.S. consumed more grain than it produced.
- U.S. grain stocks are at 10-year highs leading to lower current and expected corn prices.

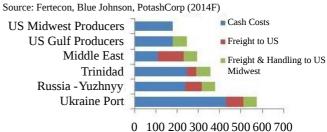
#### **Result:**

High demand for grain expected in 2014 and 2015 despite low corn prices; between 86 to 88 million acres of corn expected to be planted in 2014/2015.

### North America is Low Cost Producer of Nitrogen Fertilizers

- Natural gas is the primary feedstock for anhydrous ammonia and all nitrogen fertilizers.
- Due to large shale gas reserves, U.S. has relatively low natural gas prices vs. most places worldwide.
- Natural gas is expected to average approximately \$4.00 per MMBtu for the remainder of 2014 and 2015.

# U.S. Midwest Delivered Ammonia Cost Forecast (\$US/ton)



# LSB's Agricultural Distribution

Southern Pryor, Koch **UAN Plains &** OK Corn Belt Transammonia, The Cherokee, Eastern UAN Andersons, CHS, AL **Corn Belt** Koch, et.al. Ag Centers - 30% Southern Plains, El Dorado, AN **Distributors &** South Central, AR Dealers - 70% Midwest & West



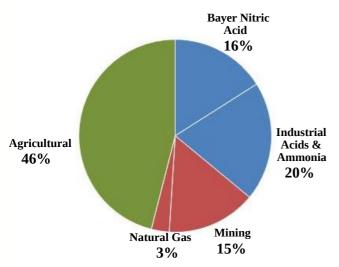
- Multiple distribution channels
- Diverse geographic coverage
- Longstanding customer relationships
- Direct rail linkage to corn belt



# **Operational Dynamics**

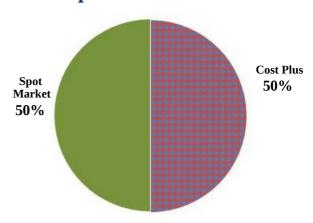
Diversification Strategy with Product Balance Options

## **Sales by Market**



A key strategy is to **OPTIMIZE SALES MIX:** industrial vs. agricultural.

# Cost-Plus Agreements vs. Spot Market Sales



Approximately half our sales are NON-SEASONAL and priced pursuant to COST-PLUS agreements.

LTM 9/30/14 Sales Mix

# Major Chemical Customers















#### El Dorado Chemical Co.



Cherokee Nitrogen LLC



Prvor Chemical Co



El Dorado Nitric LLC



# Chemical Facilities

Facili	ty	El Dorado Chemical Company	Cherokee Nitrogen LLC	Pryor Chemical Company	El Dorado Nitric LLC
Locat	ion	El Dorado, AR	Cherokee, AL	Pryor, OK	Baytown, TX
Year A	Acquired/Built	1983	1999	2000	2000
Amm	onia Design	Kellogg	Kellogg	Pritchard	-
	Area (acres) rea (acres)	150 1,400	160 1,300	47 104	2 Bayer site
Feeds	tock	ammonia	natural gas	natural gas	ammonia
귾	UAN		X	X	
Agricultural Products	High Density AN	X			
Prod	Ammonia		X	X	
¥	Urea		X	X	
	Nitric Acid	x	X	X	X
Þú	Concentrated Nitric Acid	x			
1	Sulfuric Acid	x			
& M	Mixed Acid	x			
Industrial & Mining Products	Carbon Dioxide		X	X	
gnp	Ammonia		X	X	
-5	DEF		X		
	Low Density AN	x			
	AN solutions	X	X		
Trans	portation to Market	truck, rail	truck, rail, pipeline,	truck, rail	truck, pipeline

## Annual Production Capacity of Products Available for Sale (1,000's of tons)

Facility		El Dorado Chemical Company	Cherokee Nitrogen LLC	Pryor Chemical Company	El Dorado Nitric LLC	Total
Feedstock		ammonia	natural gas	natural gas	ammonia	
Ammonia Production Capacity		220 <sup>(1)</sup> /375	175	215	-	610/765
		Produc	ts Available for Sal	e		
ra] s	UAN		215	300		515
Agricultural Products	High Density AN (2)	110/300				110/300
∢ _	Ammonia	125	30	85		115/240
iji Birilg	Nitric Acid	45/200	30		410	485/640
rtrial & Mis Products	DEF		15			15
Industrial & Mining Products	Low Density AN (2)	220				220
<u>F</u>	AN solutions		85			85

**Red Font** = production capacities after the completion of the ammonia and nitric acid expansion projects at El Dorado

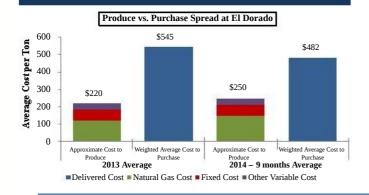
Note (1): Represents amount of ammonia currently purchased
Note (2): Combined annual low density and high density AN production capacity is limited to 330,000/TPY due to the loss in 2012 of 90,000/TPY of nitric acid production capacity

## Capital Expansion Projects

#### El Dorado Ammonia Plant

- Cost of \$275 million \$300 million
- Reduces production costs significantly vs. purchased ammonia
- Enhanced product balance opportunities
- Increases plant capacity:
  - Currently use ~220,000 tons per year (TPY)
  - Additional capacity ~155,000 TPY
  - Total capacity ~375,000 TPY
- Estimated completion Q4 2015/start-up Q1 2016

### **Ammonia Production Offers Attractive Economics**



### **El Dorado Nitric Acid Plant and Concentrator**

- Cost of \$125 million \$130 million
- Improves operating characteristics
- Enhanced product balance
- Replaces lost acid capacity and adds additional capacity for a total of 370,000 TPY
- Estimated completion and start-up Q2 2015

### **Construction Process Well Underway**

- Engineering, Procurement and Construction (EPC) contractor secured
- Installation of above ground structures underway
- Inspection and refurbish/rebuild of equipment in process

# Climate Control Market and Products

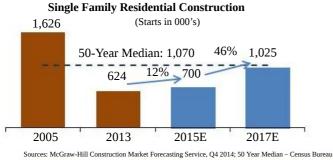
Market	Products	Uses
Geothermal & Water Source	Water Source Heat Pumps	Heating and cooling for commercial/institutional as well as single family residential - new construction, renovation and replacements
Heat Pumps (65% of sales)	Geothermal Heat Pumps	Heating and cooling for commercial/institutional as well as single family residential - new source and geothermal construction, renovation and replacements heat pumps
Hydronic Fan Coils (23% of sales)	Hydronic Fan Coils	Heating and cooling for commercial/institutional new construction, renovation and replacements  Leading share in hydronic fan coils
	Large Custom Air Handlers	Commercial, institutional and industrial
Other HVAC Products (12% of sales)	Modular Chillers	Commercial, institutional and industrial
	Make-up Air Units	Commercial, institutional and industrial

# Attractive Industry Fundamentals: Climate Control

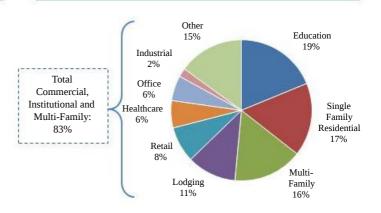
# Construction markets are poised for a recovery to pre-recession levels

- Significant upside as industry drivers return to levels at/near historical norms
  - Driven by high energy efficiency

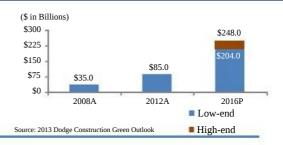




#### Climate Control LTM 9/30/14 Market Mix



# Green building market spending expected to grow ~25%+ CAGR from '12 - '16E



# Significant Installed Base of Climate Control Products



Millennium Towers, NYC



Bellagio, Las Vegas



Statue of Liberty



MGM Grand, Las Vegas



Trump Tower, NY



World Financial Center NVC



Chicago Hilton and Towers



Wynn Resort, Las Vegas



Disney's Grand Floridian, Orlando



Atlantis, Bahama



Rowes Wharf, Boston



Alta Condos, Washington DC



Peninsula, Hong Kong



Ritz Carlton, Pasadena, CA



Rockefeller Center, NYC

Thousands of premier installations and over 4 million units

# Financial Overview

# Summary Statement of Operations

\$ in millions except EPS	Cale 2013	endar Year 2012	9 Mos. Ended Sept. 30, 2014 2013			
Sales	\$679.3	\$759.0	\$805.3	\$609.9	\$551.2	\$530.3
Sales Growth	(11)%	(6)%	32%	15%	4%	(9)%
Operating Income/(Loss)	\$105.3	\$95.7	\$136.4	\$55.9	\$48.4	\$35.1
Net Income/(Loss)	\$55.0	\$58.6	\$83.8	\$29.6	\$19.0	\$17.6
Diluted Earnings/(Loss) per Share	\$2.33	\$2.49	\$3.58	\$1.32	\$0.80	\$0.75
EBITDA	\$132.9	\$117.3	\$155.7	\$74.3	\$75.4	\$54.4
EBITDA Margin	20%	15%	19%	12%	14%	10%

# Segment Summary Statement of Operations

### **Chemical Business**

	Calend	Calendar Year Ended Dec. 31,				Sept. 30,
\$ in millions	2013	2012	2011	2010	2014	2013
Sales	\$380.7	\$477.8	\$511.9	\$351.1	\$345.7	\$303.0
Gross Profit	46.2	97.7	130.7	49.3	57.2	39.1
Gross Profit %	12.1%	20.4%	25.5%	14.0%	16.5%	12.9%
Operating Income	87.8	82.1	116.5	31.9	46.8	20.3
Segment EBITDA	\$111.4	\$98.5	\$131.2	\$45.0	\$69.6	\$36.9

### **Climate Control Business**

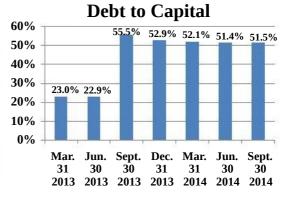
	Calen	Calendar Year Ended Dec. 31,				Sept. 30,
\$ in millions	2013	2012	2011	2010	2014	2013
Sales	\$285.0	\$266.2	\$281.6	\$250.5	\$196.6	\$217.5
Gross Profit	92.9	81.0	88.2	86.4	61.6	70.6
Gross Profit %	32.6%	30.4%	31.3%	34.5%	31.3%	32.4%
Operating Income	30.4	25.8	32.8	35.3	17.4	24.4
Segment EBITDA	\$33.6	\$29.0	\$35.5	\$38.8	\$21.0	\$26.9

# Solid Financial Position

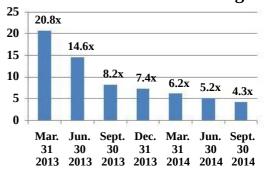
# Strong Balance Sheet

\$ in millions	Sept. 30, 2014	Dec. 31, 2013
Cash and Investments (including non-current)	\$311.1	\$434.7
Total Debt	\$459.4	\$463.0
Stockholders' Equity	\$432.4	\$411.7
Total Capitalization	\$891.8	\$874.7

Note: As of September 30, 2014, total debt consisted of \$425 million 7.75% Senior Secured Notes due in 2019; a \$24.5 million Secured Promissory Note due in February 2016 and \$9.9 million of equipment loans and capital leases. Our availability under the \$100 million working capital revolver loan was \$74.2 million at September 30, 2014.



### **EBITDA to Interest Coverage\***



<sup>\*</sup> Calculated on a trailing twelve month basis using total interest, including capitalized interest.

Planned Capital Spending (as of September 30, 2014 - \$ in millions)

Total Projects	Remainder of		
Total I Tojects	2014	2015	Total
Chemical Business:			
El Dorado Facility Expansion Projects	\$80 - \$93	\$200 - \$222	\$280 - \$315
Development of Natural Gas Leaseholds	1 - 3	14 - 18	15 - 21
Environmental Projects	5 - 7	5 - 7	10 - 14
Major Renewal and Improvement Projects	14 - 18	34 - 40	48 - 58
Other	4 - 8	13 - 16	17 - 24
Total Chemical	\$104 - \$129	\$266 - \$303	\$370 - \$432
Climate Control Business:	2 - 3	7 - 10	9 - 13
Corporate and Other:	2 - 3	7 - 10	9 - 13
Total Projects	\$108 - \$135	\$280 - \$323	\$388 - \$458

## El Dorado Expansion Projects

Ammonia Plant
Nitric Acid Plant and Concentrator
Other Support Infrastructure
Total El Dorado Projects

Planned Capital Expenditures								
Expenditures	Remainder of	Remainder of						
to Date	2014	2015	Total					
\$99	\$50 - \$60	\$126 - \$141	\$275 - \$300					
85	11 - 12	29 - 33	125 - 130					
21	19 - 21	45 - 48	85 - 90					
\$205	\$80 - \$93	\$200 - \$222	\$485 - \$520					

Note: The planned spending is presented as a range to provide for engineering estimates, the status of bidding, variable material costs, unplanned delays in construction and other contingencies.

# Chemical Business Operating Metrics

	Nine Mon	Nine Months Ended September 30,				
Agricultural:	2014	2013	% Change			
Product (tons sold)						
Urea ammonium nitrate (UAN)	231,153	200,549	15%			
Ammonium nitrate (AN)	184,450	124,070	49%			
Anhydrous ammonia	65,148	37,332	75%			
Other	23,478	21,714	8%			
	504,229	383,665	31%			
Average Selling Prices (price per ton)						
UAN	\$259	\$273	(5%)			
AN	\$332	\$377	(12%)			
Anhydrous ammonia	\$481	\$543	(11%)			
Input Costs						
Average purchased ammonia cost/ton	\$482	\$568	(15%)			
Average natural gas cost/Mmbtu (1)	\$4.91	\$3.86	27%			
Industrial:						
Product (tons sold)						
Nitric acid	396,026	366,665	8%			
AN and AN solution	126,256	116,827	8%			

(1) Gross cost excluding any hedging activity

# Outlook

### **Chemical:**

- Favorable indicators for agricultural market
  - Expected 2014/2015 planting level of ∼87 million acres of corn
  - Current nitrogen fertilizer prices approximately equal to or higher than a year ago
  - Natural gas feedstock cost relatively low historically
  - Corn pricing lower than recent past but stabilized while yields per acre are increasing
- Continued high cost of ammonia is unfavorable for our business
  - El Dorado currently purchases ammonia making the sale of HDAN uneconomical
  - This is expected to continue until the new ammonia plant is on-line in 2016
- Successful turnaround moves Cherokee to a 2-year turnaround cycle
  - Translates into additional production days of between 10-15 days every 2 years
- Planned maintenance activity not expected in Q4 2014
  - El Dorado will cease production for approximately one week to facilitate "tie-ins" required for expansion projects

### **Climate Control:**

- Continued trend for increasing demand in the commercial and institutional sectors
  - September ABI was positive for 5<sup>th</sup> consecutive month, reaching 2007 levels
  - Long-stalled projects are re-activating, indicating credit is easing and an increase in confidence in the economy
- Commercial and institutional sectors we serve expected to increase in 2015 per Dodge data
  - ♦ Lodging (+17%), Retail (+11%), Office Buildings (+19%) and Education (+9%)
- \$75.5 million backlog at 10/31/14 highest since 2008 translating to sales growth year-over-year in Q4 2014 and into 2015

# Key LSB Value Drivers

- Comprehensive upgraded Chemical Business safety and plant reliability systems – intended to improve plant up-time and reduce risks of unplanned downtime.
- Pryor facility reliability improvements including new senior management, additional engineering support, extensive monitoring and control equipment, remanufacture of certain key pieces of equipment, and use of industry expert consultants intended to improve plant up-time and reduce risks of unplanned downtime.
- **Expansion projects at El Dorado** intended to reduce costs, increase capacity, and enhance product balance capabilities.
- Growth in Climate Control Business within existing plant footprints as construction cycle recovers to achieve increased profits through operating leverage.
- LEAN / Operational Excellence initiatives in our Climate Control Business to facilitate improved operational metrics and reduce costs.

# Appendix

EBITDA Reconciliations (in millions)

Reconciliation of Consolidated Net Income and Segment Operating Income to Non-GAAP measurement EBITDA. Management uses operating income by business segment for purposes of making decisions that include resource allocations and performance evaluations. Operating income by business segment represents gross profit by business segment less selling, general and administrative expenses incurred by each business segment plus other income and other expense earned/incurred by each business segment before general corporate expenses.

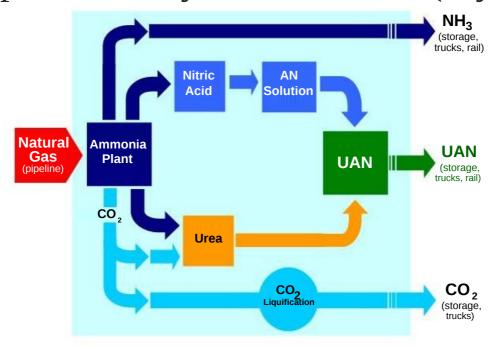
The term EBITDA, as used in this presentation, is net income plus interest expense, depreciation, amortization, income taxes, and certain non-cash charges, unless otherwise described. EBITDA is not a measurement of financial performance under GAAP and should not be considered as an alternative to GAAP measurement.

LSB Industries, Inc. Consolidated	Twelve months ended 12-31				Nine months ended 9-30	
	2013	2012	2011	2010	2014	2013
Net income (loss)	\$ 55.0	\$ 58.6	\$ 83.8	\$ 29.6	\$ 19.0	\$ 17.6
Plus:						
Interest expense	14.0	4.2	6.7	7.4	17.5	6.7
Depreciation and amortization	28.4	20.7	18.8	17.4	26.6	20.1
Provisions for income taxes	35.3	33.6	46.2	19.8	12.3	10.0
Loss from discontinued operations	0.2	0.2	0.2	0.1		<u> </u>
EBITDA per conference call	\$ 132.9	\$ 117.3	\$ 155.7	\$ 74.3	\$ 75.4	\$ 54.4
Climate Control Business						
Operating income (loss)	\$ 30.4	\$ 25.8	\$ 32.8	\$ 35.3	\$ 17.4	\$ 24.4
Plus:						
Equity in earnings of affiliate	0.4	0.7	0.5	1.0	0.1	0.5
Depreciation and amortization	2.8	2.5	2.2	2.5	3.5	2.0
EBITDA per conference call	\$ 33.6	\$ 29.0	\$ 35.5	\$ 38.8	\$ 21.0	\$ 26.9
	St. 100	37 - 37	20	37 37	3 <del>1</del> 32	- A
Chemical Business						
Operating income (loss)	\$ 87.8	\$ 82.1	\$ 116.5	\$ 31.9	\$ 46.8	\$ 20.3
Plus:						
Non-operating income	-	-	-	-	0.2	-
Depreciation and amortization	23.6	16.4	14.7_	13.1	22.6	16.6
EBITDA per conference call	\$ 111.4	\$ 98.5	\$ 131.2	\$ 45.0	\$ 69.6	\$ 36.9

# What Our Chemical Products Are Used For:

Agrochemical Products	Uses		
Urea Ammonium Nitrate Solutions (UAN) 28-32% N Manufactured nitrogen content fertilizer	High nitrogen content fertilizer for corn and other crops with high nitrogen demand (wheat, milo, cotton)		
E2 Ammonium Nitrate Prill (solid) 34% N High nitrogen content fertilizer	Nitrogen consuming crops, forage areas and citrus. The primary nitrogen component in NPK (nitrogen, phosphorus, potassium) fertilizer blends		
Fertilizer Blends Custom blends with purchased phosphates, potassium, sulfur, micronutrients with produced ammonium nitrate	Special application for agri-business products to supply growers balanced fertility		
Anhydrous Ammonia 82% N Gas injected application	High nitrogen content fertilizer with highest percentage use for corn.		
Industrial Acids, Ammonia, DEF	Uses:		
Concentrated Nitric Acid Aqueous solution up to 99% concentration	Production of specialty fibers, nitrocellulose, gaskets, crop chemicals, mining products, metal treatment, nitric acid commercial blends		
Nitric Acid Commercial Blends Aqueous solution up to 89% concentration	Semi-conductor industry, manufacture of nylon and polyurethane intermediates, potassium nitrate compounds, ammonium nitrate production		
Anhydrous Ammonia Commercial grade and high purity refrigeration, metallurgical grade	Air emission abatement in power plants, water treatment, refrigerants, metals processing, and a wide variety of industrial uses		
Mixed Acids Blends of concentrated nitric acid and sulfuric acid/oleum	Diesel fuel additives, ordnance, herbicides and pharmaceutical grade nitroglycerine		
Sulfuric Acid 98% and 93% concentrations, standard and low-iron grades	Pulp and paper manufacturing, alum, water treatment, metals processing, vanadium processing, other industrial uses		
DEF (diesel exhaust fluid)	Exhaust stream additive to reduce NO <sub>X</sub> emissions from diesel vehicles		
Industrial Mining Products	Uses:		
Ammonium Nitrate Solutions 54% and 83% concentrations	Specialty emulsions for mining applications, other miscellaneous uses		
Low Density Ammonium Nitrate Prills (solids) Solid pellets with good porosity and flowability	Surface mining, quarries, construction		

# Typical Facility Process Flow (Pryor)



- Products are marketable at every intermediate and final stage of production.
- Pryor facility process flow is typical of plants with natural gas feedstock.
- Pryor and Cherokee use natural gas feedstock. El Dorado and Baytown use ammonia feedstock.

# Climate Control Sales & Marketing Data

September 30, 2014 LTM Sales Mix Data

### **Diversified End Markets**

#### Retail 100% Single Family 75% Education Healthcare 50% ■ Multi Family 25% Office 0% Lodging 2008 **LTM** Other 9/30/14

### **Distribution Channels**

#### **Commercial:**

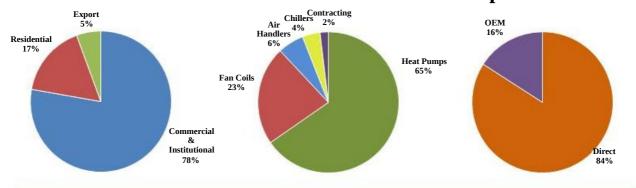
- 238 Commercial representative firms with 438 locations
- 2,200+ Sales Engineers

### **Residential (Geothermal):**

- 600 Residential distributor locations (approx.)
- 4,000 Residential contractor-dealers (approx.)

**Plus: OEM distribution channels** 

### **Product & Market Sales Mix – Various Perspectives**



# Focus on Geothermal Heat Pumps

How does a GHP system work?

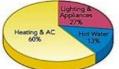


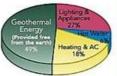
- The Earth absorbs approximately 50% of all solar energy and remains at nearly a constant temperature year round (below a few feet deep).
- **A GHP system** uses a **①** sealed in-ground heat exchanger (loop) filled with fluid and a **②** GHP unit to exchange energy between the house or building and the earth.
- In winter, fluid in the loop absorbs energy from the earth and carries it to the GHP where it is converted (compressed) to a higher temperature and sent as warm air into the house or building.
- In summer, the system reverses, transferring heat from the house or building into the earth.
- GHP systems work year round, in all climates, in both individual residence and large commercial buildings, providing both conditioned air and domestic hot water (as a "free" by-product).

### **Geothermal Benefits:**

Energy Cost Reduction & Positive
 Cash Flow – the most energy efficient HVAC technology available – up to 80% more efficient than conventional systems.

Residential Energy Usage





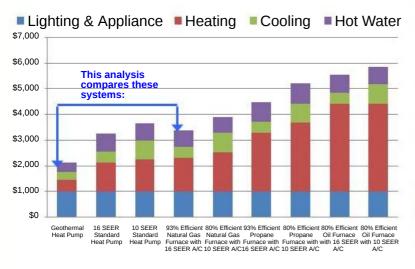
**Conventional System Geothermal System** 

- Fed Tax Credits 30% residential & 10% business + accelerated depreciation, + state/utility incentives
- GHP's are an Alternative form of Renewable Energy
- Green Refrigerants non-ozone depleting
- "Free" Domestic Hot Water
- **Noise Free Operation** no noisy condensing unit
- Extremely Long Lived vs. conventional systems (50 year loops)

# Typical GHP Costs and Savings

For a GHP System in a 2,500 sq. ft. new house in St. Louis, MO (typical middle America) Installed Cost of a 4 ton GHP System = \$6,000 per ton (12,000 Btu/ton).

# System Operating Cost Comparison GHP vs. Conventional Systems



Note: System installed costs are different throughout the U.S due to varying local conditions and labor costs. Savings vary due to weather conditions, user preferences, and local utility rates. Costs and savings in St. Louis are estimates and subject to change.

Payback (GHP vs. Hi-Eff Gas Furn+AC)		
Installed cost of GHP	\$24,000	
Less: 30% Fed tax credit	(7,200)	
GHP cost after credit	16,800	
Cost for Hi-Eff Gas + AC	(12,000)	
GHP premium cost	4,800	
<b>Annual Energy Savings</b>	\$1,248	
Payback in Years	3.8	

Positive Cash Flow	
Annual Energy Savings	\$1,248
Annual P&I on GHP Premium (6% int. – 10 yrs.)	(636)
<b>Annual Cash Savings</b>	\$612

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LSB Industries, Inc. is headquartered in Oklahoma City and does business through its subsidiaries, with seven HVAC manufacturing and distribution facilities in Oklahoma City, chemical plants in Texas, Arkansas, Alabama and Oklahoma and an engineered products distribution center in Oklahoma City. Approximately 1,900 total employees.

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