

EDAM[®]

Enterprise Document Assessment Methodology

Global 20 Oil & Gas Office Documents Costs

The data represented in this report is summarized for simplicity. It is based on our independent assessment, research and computational analysis encompassing more than 250 published government, academic, and industry research data sources.

We examined the impact of 187 global upstream and downstream oil & gas companies staffed by 6.1 million full-time equivalent employees, that during 2018 will produce some 21.7 billion office documents with a predicted fully burden cost just over \$13 billion dollars.

This document is intended for discussion purposes and hopefully you are intrigued to learn more.

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ALLAssociatesGroup
strength in numbers

1997-2018

EDAM® Global 20 Predicted Office Document Volumes & Costs

Oil & Gas companies are categorized by streams. "Upstream" and "Downstream" are industry business terms referring to a company's location in the supply chain. Raw material extraction or production are elements of the supply chain considered to be upstream. The closer to the end user, it is said to be downstream. We have selected these companies below because of their geographic location, as well as their combination of both operational streams.



508,757
Employees
FTE



1,874,156,262
Office Documents
Produced



\$ 1,130,891,388
Office Document
Costs



373,421
Trees Consumed
for Office Paper



467,400
Employees
FTE



1,422,194,750
Office Documents
Produced



\$ 856,873,675
Office Document
Costs



373,318
Trees Consumed
for Office Paper



451,611
Employees
FTE



1,800,542,264
Office Documents
Produced



\$ 1,069,191,388
Office Document
Costs



363,391
Trees Consumed
for Office Paper



153,085
Employees
FTE



576,815,411
Office Documents
Produced



\$ 345,064,927
Office Document
Costs



116,493
Trees Consumed
for Office Paper



105,488
Employees
FTE



454,989,765
Office Documents
Produced



\$ 272,364,021
Office Document
Costs



61,291
Trees Consumed
for Office Paper

EDAM® Global 20 Predicted Office Document Volumes & Costs

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102,168
Employees
FTE



405,069,016
Office Documents
Produced



\$ 238,334,835
Office Document
Costs



84,737
Trees Consumed
for Office Paper



91,891
Employees
FTE



408,872,660
Office Documents
Produced



\$ 246,683,510
Office Document
Costs



82,120
Trees Consumed
for Office Paper



73,976
Employees
FTE



320,381,835
Office Documents
Produced



\$ 192,449,931
Office Document
Costs



64,866
Trees Consumed
for Office Paper



65,266
Employees
FTE



318,483,789
Office Documents
Produced



\$ 189,852,084
Office Document
Costs



63,903
Trees Consumed
for Office Paper



69,588
Employees
FTE



307,971,478
Office Documents
Produced



\$ 183,538,219
Office Document
Costs



61,291
Trees Consumed
for Office Paper

EDAM® Global 20 Predicted Office Document Volumes & Costs

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73,769
Employees
FTE



300,124,271
Office Documents
Produced



\$ 181,594,554
Office Document
Costs



59,432
Trees Consumed
for Office Paper



68,829
Employees
FTE



261,107,400
Office Documents
Produced



\$ 157,485,938
Office Document
Costs



52,335
Trees Consumed
for Office Paper



51,872
Employees
FTE



240,745,256
Office Documents
Produced



\$ 143,449,782
Office Document
Costs



48,974
Trees Consumed
for Office Paper



43,718
Employees
FTE



128,466,162
Office Documents
Produced



\$ 76,307,987
Office Document
Costs



27,914
Trees Consumed
for Office Paper



20,245
Employees
FTE



98,773,645
Office Documents
Produced



\$ 59,601,651
Office Document
Costs



20,242
Trees Consumed
for Office Paper

EDAM® Global 20 Predicted Office Document Volumes & Costs

Oil & Gas companies are categorized by streams. "Upstream" and "Downstream" are industry business terms referring to a company's location in the supply chain. Raw material extraction or production are elements of the supply chain considered to be upstream. The closer to the end user, it is said to be downstream. We have selected these companies below because of their geographic location, as well as their combination of both operational streams.



33,135
Employees
FTE



78,450,368
Office Documents
Produced



\$ 47,375,770
Office Document
Costs



15,976
Trees Consumed
for Office Paper



11,391
Employees
FTE



51,976,959
Office Documents
Produced



\$ 31,156,252
Office Document
Costs



10,536
Trees Consumed
for Office Paper



10,015
Employees
FTE



32,784,430
Office Documents
Produced



\$ 19,504,931
Office Document
Costs



6,949
Trees Consumed
for Office Paper



ऑयल इंडिया लिमिटेड
Oil India Limited



7,228
Employees
FTE



29,607,108
Office Documents
Produced



\$ 17,950,200
Office Document
Costs



5,849
Trees Consumed
for Office Paper



5,486
Employees
FTE



26,981,479
Office Documents
Produced



\$ 16,313,758
Office Document
Costs



5,326
Trees Consumed
for Office Paper

Global "UPSTREAM" Oil & Gas Companies Researched

Anadarko Petroleum	Inpex Corporation	Petron Corporation
Apache Corporation	KazMunaiGas Exploration	Pioneer Natural Resources
Arctic Slope Regional	Key Energy Services	Precision Drilling Corp.
Cabot Oil & Gas	KunLun Energy Company	Range Resources
Canadian Natural Resource	Lukoil	Rowan Companies
CGG Group	Marathon Oil Corporation	RPC
Chesapeake Energy	Merit Energy	Santos
China National Offshore Oil	Murphy Oil Corporation	Saudi Arabian Oil Company
China Oilfield Services	Nabors Industries	Schlumberger
Cimarex Energy	Newfield Exploration Co.	Scomi Group
Cnx Resources Corporation	Noble Corporation	Seadrill
Concho Resources	Noble Energy	Sonatrach Group
ConocoPhillips	Novatek OAO	Southwestern Energy Co.
Continental Resources, Inc.	Obsidian Energy	Superior Energy Services
Denbury Resources	Occidental Petroleum	Surgutneftegas
Devon Energy Corporation	Oceaneering International	Tatneft
Diamond Offshore Drilling	Oil & Gas Development Co.	Total
Enable Midstream Partners	Oil & Natural Gas Corp.	Transocean
EnCana Corporation	Oil India	Tullow Oil
EnSCO	Oil States International	Unit Corporation
EOG Resources	Patterson - UTI Energy	Whiting Petroleum
Fred. Olsen Energy	PEMEX	Woodside Petroleum
Gazprom	Pertamina	WPX Energy
Halliburton Company	Petrobras	
Helmerich & Payne	PetroChina Company	
Husky Energy	Petroleos de Venezuela	
INA Group (Industrija Nafta)	Petroliaam Nasional	

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Global "DOWNSTREAM" Oil & Gas Companies Researched

Andeavor Corporation	Exxon Mobil Corporation	MedcoEnergi
Atmos Energy Corporation	Ferrellgas Partners	MOL Group
Bharat Petroleum Corp.	Formosa Petrochemical	Motiva Enterprises
Boardwalk Pipeline Partners	Fuchs Petrolub	Murphy USA Inc.
British Petroleum	Galp Energia	Nederlandse Gasunie
Buckeye Partners	Genesis Energy	Neste Corporation
Calumet Specialty Products	Global Partners	NGL Energy Partners
Cenovus Energy	Green Plains Renewable	Now Inc.
Cepsa	Grupa Lotos	NuStar Energy
Chevron Corporation	Hellenic Petroleum	OMV Group
China National Petroleum	Hess Corporation	Oneok
CNOOC	Hindustan Petroleum Corp.	Oxbow
Colonial Group	Holiday Companies	Pakistan State Oil
Cosmo Energy Group	HollyFrontier	Par Pacific Holdings
CPC Corporation, Taiwan	Hunt Consolidated	PBF Energy
Crestwood Equity Partners	Idemitsu Kosan	PETROL
Cumberland Farms	Indian Oil Corporation	Petronas Dagangan
CVR Energy	Kinder Morgan	Pgnig Group
Delek US Holdings, Inc.	Koch Industries	Phillips 66
Ecopetrol	Korea Gas	Pilot Flying J
Enagas	Kum & Go	PKN Orlen
Energy Transfer Equity	Kumho Petrochemical Company	Plains All American Pipeline
ENI	Love's Travel Stops	PTT Public Company
Enlink Midstream Partners	Magellan Midstream	QEP Resources
Enterprise Products Partners	Marathon Petroleum	QuikTrip Corporation
EQT Corporation	Marquard & Bahls	RaceTrac Petroleum
		Reliance Industries

Global "DOWNSTREAM" Oil & Gas Companies Researched

- | | | |
|------------------------|---------------------------|---------------------------|
| Renewable Energy Group | SK Group | Ultrapar |
| Repsol Group | S-Oil Corporation | United Refining Company |
| Rosneft | Sprague Resources | Valero Energy Corporation |
| Royal Dutch Shell | Statoil | Valvoline |
| Royal Vopak | Suburban Propane Partners | Williams Companies |
| Seacor Holdings Inc. | Suncor Energy | World Fuel Services |
| SemGroup Corporation | Targa Resources Partners | |
| Sheetz | Tidewater | |
| Showa Shell Sekiyu KK | Travel Centers of America | |
| Sinclair Oil | | |

EDAM® Cost Modeling

ALL Associates Group uses exhaustive research, mathematical and scientific processes, predictive analytics, and techniques to combine global data on employment and industry statistics. EDAM® databases and algorithms can compute the **fully burdened costs** of any document system, within any organization, anywhere in the world.

This 2018 Global 20 Oil & Gas report was generated using EDAM® Predictive Modeling Tools. To obtain a predictive profile of any one of the 187 companies listed call **(919) 917-7600** or send a email to: edam@allassociates.com



The information presented below is a highly sensitive predictive forecasting tool using the EDAM® report system and is calculated using ALL Associates Group's research data. This report details the office and Production Document frameworks.

Account Summary		Predictive Document Profile	
Company:	Department of Defense	Region:	Global
Country:	United States	Government:	Federal
Fiscal Year End:	09/30/2017	Unit:	US\$
Employees (FTE):	2,378,489	Year:	2018
Budget:	\$718,700,000,000	Document:	Office
Estimated PC:		Production:	Production

Environmental Snapshot		Enterprise Summary of Document Costs	
Total Tons Used:	6,224,481	Percent of Revenue:	1.81%
Trees Used per FTE:	1.78	Total Spend:	\$11,542,780,639
Energy to Manufacturer Paper:	584,103,849 kWh	Office Documents:	\$7,373,996,415
CO2 to Manufacturer Paper:	782,659,152 Lbs.	Production Documents:	\$4,168,784,224
Total Annual Spend:	\$118,916,707,033	Production Documents:	\$4,168,784,224

EDAM® Office Burdened Costs - Annual Total Burdened Office Document Costs		Enterprise-level Cost	
Hardware, Supplies, Service, Paper, Power, etc.	\$511	Enterprise-level Cost	\$776,740,193
IS Support	\$207	Enterprise-level Cost	\$489,348,049
IS Infrastructure	\$204	Enterprise-level Cost	\$488,189,772
Admin, Purchasing & Facilities	\$272	Enterprise-level Cost	\$647,699,000
End User Production Costs	\$1,468	Enterprise-level Cost	\$5,493,360,469
Document Management Costs	\$1,468	Enterprise-level Cost	\$5,493,360,469
Total	\$4,891	Enterprise-level Cost	\$11,542,780,639

This report details the Office Document Costs which are comprised of the following: Hardware, Supplies, Service, Paper, Power, etc. IS Support. IS Infrastructure. Admin, Purchasing & Facilities. End User Production Costs. Document Management Costs.

The Enterprise-level Cost is calculated by adding the Office Document Costs to the Production Document Costs. The Enterprise-level Cost is calculated by adding the Office Document Costs to the Production Document Costs.

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