

Energy Efficiency Technical Training Event

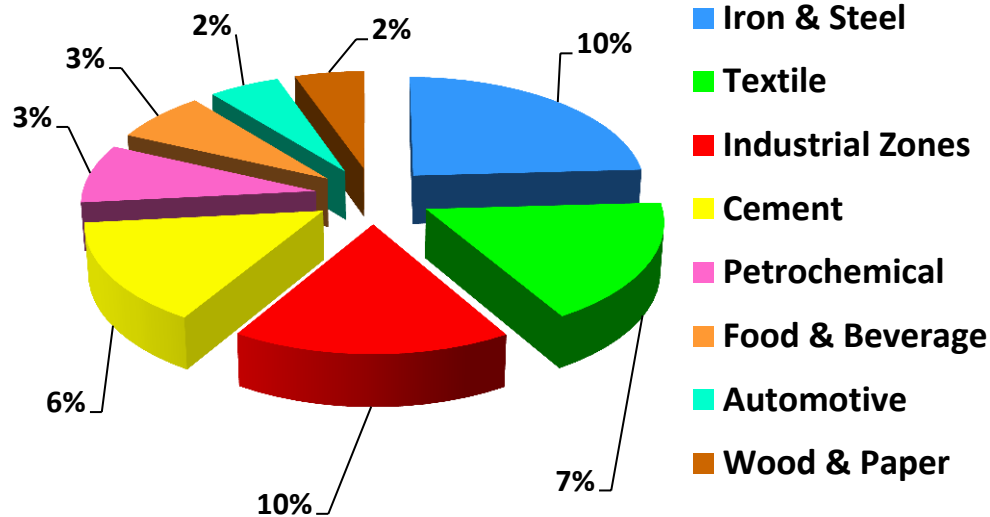
OSBUK, REGD & U.S. DoE

Identifying Goods for Energy Efficiency

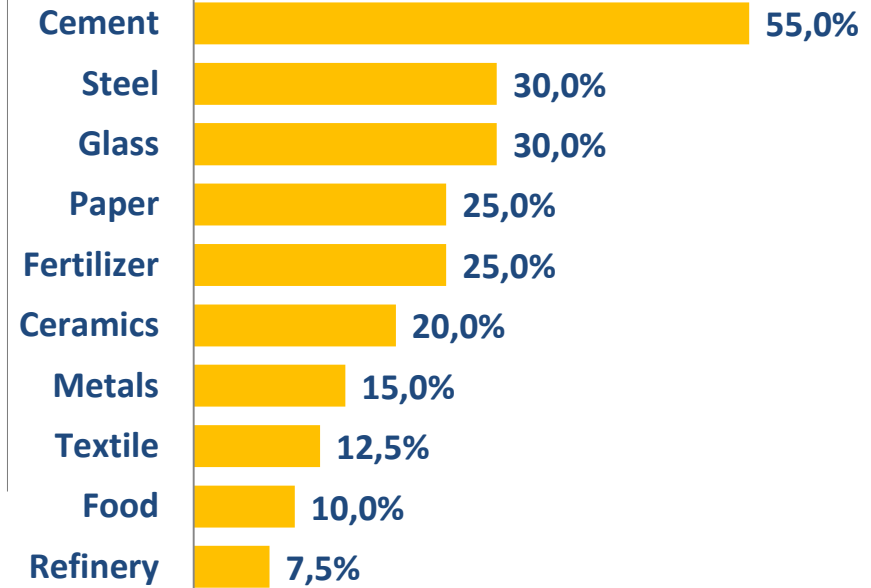


Electricity consumption of Industry

Electricity Consumption per Industry



Energy cost weight in unit production cost



MoE-2011

MoE-2011

- ~50% of the industrial energy consumed by OSBs
- ~45% of total consumption in 8 major industries

General Electric... in numbers

GE Energy \$38B

Oil & Gas



Power & Water



Energy Management



Healthcare: \$16.9B



Aviation: \$17.6B



Transportation: \$3.4B



GE Capital: \$47B



Home & Business Solutions,
Media: \$25.5B



~\$150B Revenue

a product of
ecomaginationSM

\$12.6B earnings
\$14.7B cash flow

How to identify goods for efficiency?

Recommended check list & process

- **Product segmentation?**
 - i.e. Right power range, future oper'nal projection
- **Quality specs?**
 - i.e. Quality standards for LED... LM-79, LM-82 & LM-80 overall reliability & anticipated lifetime
- **Oper'nal performance req'ments for different condit's**
 - i.e. Temperature, altitude, humidity, fog



Best practice & showcase:

GE Lighting - Las Vegas Roadways LED

GE is NOT "EVD"!

Some GE offerings for efficient energy

Power Generation (Combined Heat & Power)

- Gas Turbines & GE-Jenbacher Gas Engines
- Renewables... Wind & Solar
- "Waste Heat to Electricity" systems

High efficiency potential

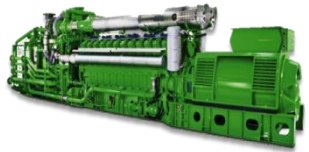


Energy Management

- Transmission & Distribution (T&D)
 - Low, medium & high voltage... DC switchgears
 - Smart Grid solutions (i.e. interactive monitoring)



High efficiency potential



Power Conversion

- Electric Motors & Drives with premium efficiency standard (IE3)



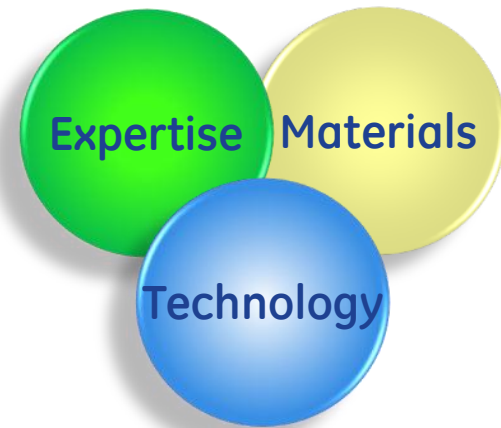
Lighting & Water

- Indoor & outdoor LED solutions
- Water solutions both chemical & equipment

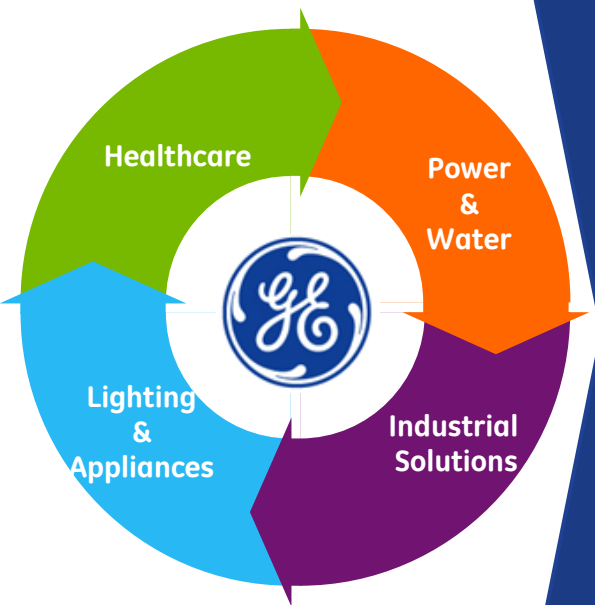
High efficiency potential



Key benefits of GE products



Key Benefits of GE products



- Cost & Energy Saving
- Low Installation & Maintenance Cost
- Flexible & Modular Design
- Ease of Operation
- High Efficiency
- Long Life & High Reliability
- Eco - friendly





imagination at work