PURDUE UNIVERSITY | Environmental and Ecological Engineering
COLLEGE OF ENGINEERING

Helping progressive industrial companies compete and capitalize within a market that demands sustainability

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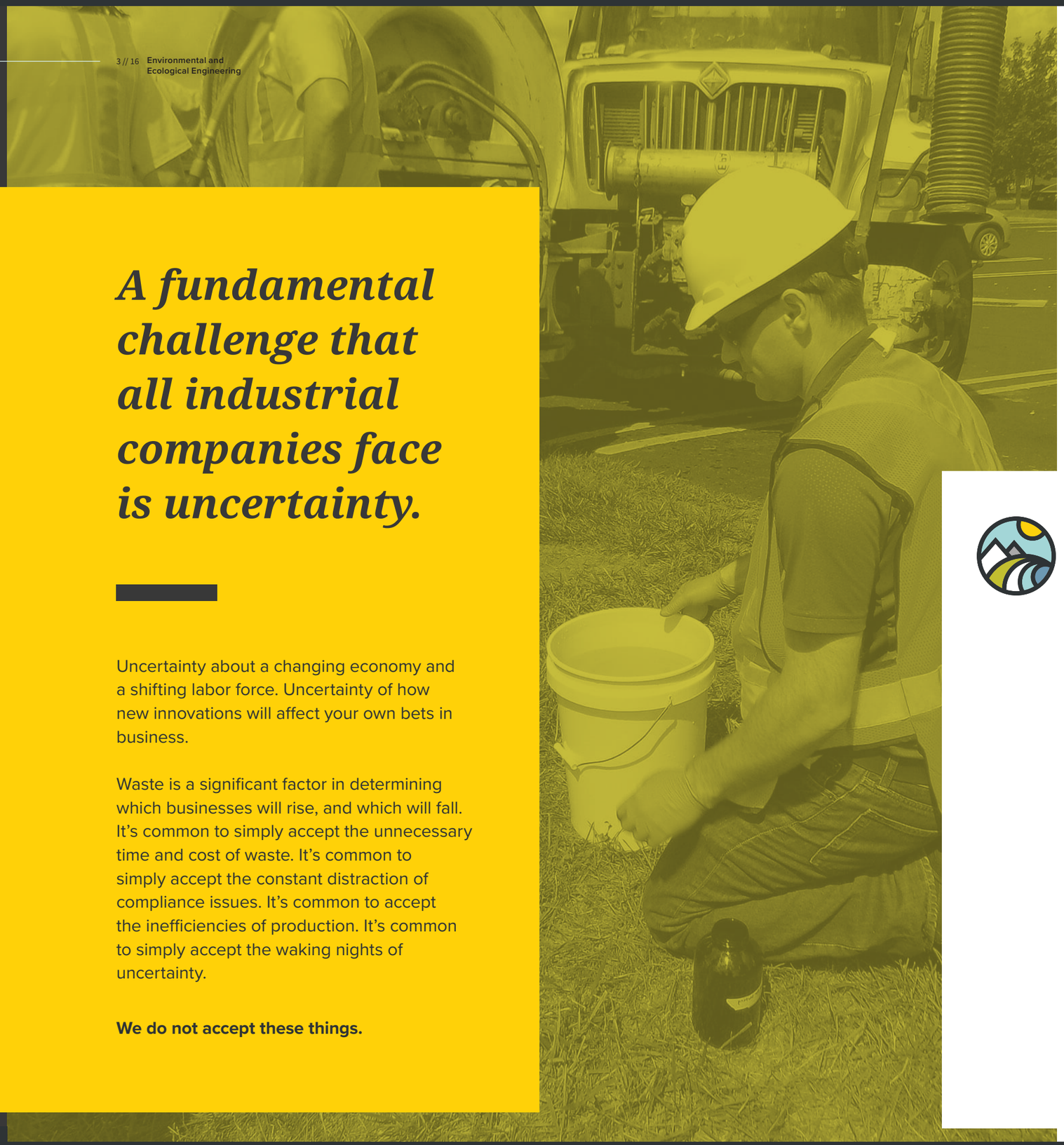
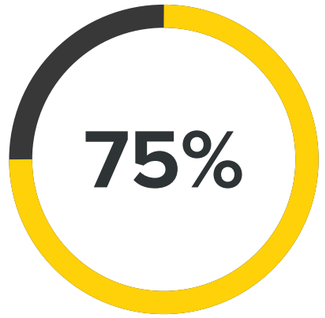


A fundamental challenge that all industrial companies face is uncertainty.

Uncertainty about a changing economy and a shifting labor force. Uncertainty of how new innovations will affect your own bets in business.

Waste is a significant factor in determining which businesses will rise, and which will fall. It's common to simply accept the unnecessary time and cost of waste. It's common to simply accept the constant distraction of compliance issues. It's common to accept the inefficiencies of production. It's common to simply accept the waking nights of uncertainty.

We do not accept these things.



75 PERCENT OF THE TOP 100 COMPANIES IN **49** COUNTRIES ARE NOW REPORTING ON SUSTAINABILITY.

We're at a point in history where waste shouldn't have to be produced in the first place.

Your business can capitalize on an increasingly dynamic landscape. Where others see challenges with uncertainty and waste, you can see opportunities.

Purdue EEE helps progressive industrial companies increase their competitiveness and sustainability.

Explore what it takes to keep up with a sustainable future.

/01

Access the ingenuity of Purdue University.

Purdue EEE possesses the world's highest concentration of industrial sustainability experts — the partners you've been looking for.

NOTABLE

$454+
MILLION
Purdue research is funding.

93k
ALUMNI
living Purdue Engineering alumni.

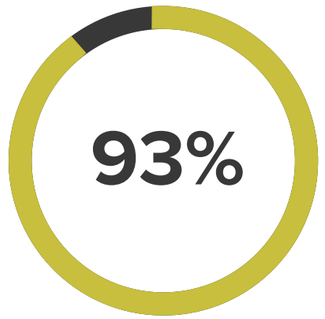
7
BRIDGES
Purdue EEE Faculty have joint appointments within seven academic units.

/02

Eliminate the inefficiencies of your system.

We will investigate and analyze the issues costing you big losses. You can utilize your resources more efficiently without compromising cost, quality, or productivity.

NOTABLE



93 PERCENT OF THE WORLD'S 250 LARGEST COMPANIES ARE NOW REPORTING ON SUSTAINABILITY

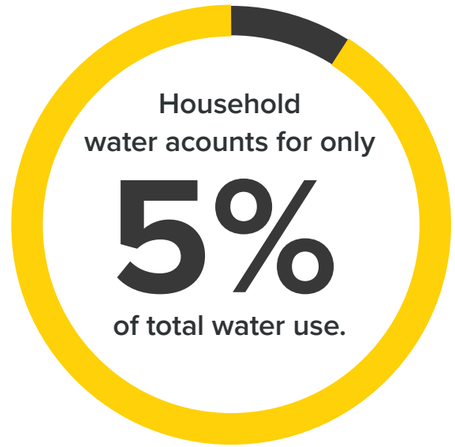
/03

Stop wasting money on generating waste.

We will collaborate with you in reducing or even eliminating waste creation, without compromising the quality of your product.

NOTABLE

“For a healthy, sustainable future for the planet, developing methods of ensuring adequate water supplies pose engineering challenges of the first magnitude.”



Water for drinking and **personal use** is only a small part of society’s total water needs. In addition to sanitation, most of the water we use is for **agriculture** and **industry**.

**National Academy of Engineering*

/04

Become agile in your thinking.

Anticipating your environmental challenges now, means turning those challenges into competitive opportunities.

UTILITY BILL REDUCED BY $1 MILLION

Purdue EEE's Dr. Sutherland provided research into the efficiency of energy usage.

This research was utilized by the Scranton Army Ammunition Plant (managed by General Dynamics), resulting in a one million dollars savings on their utility bill.

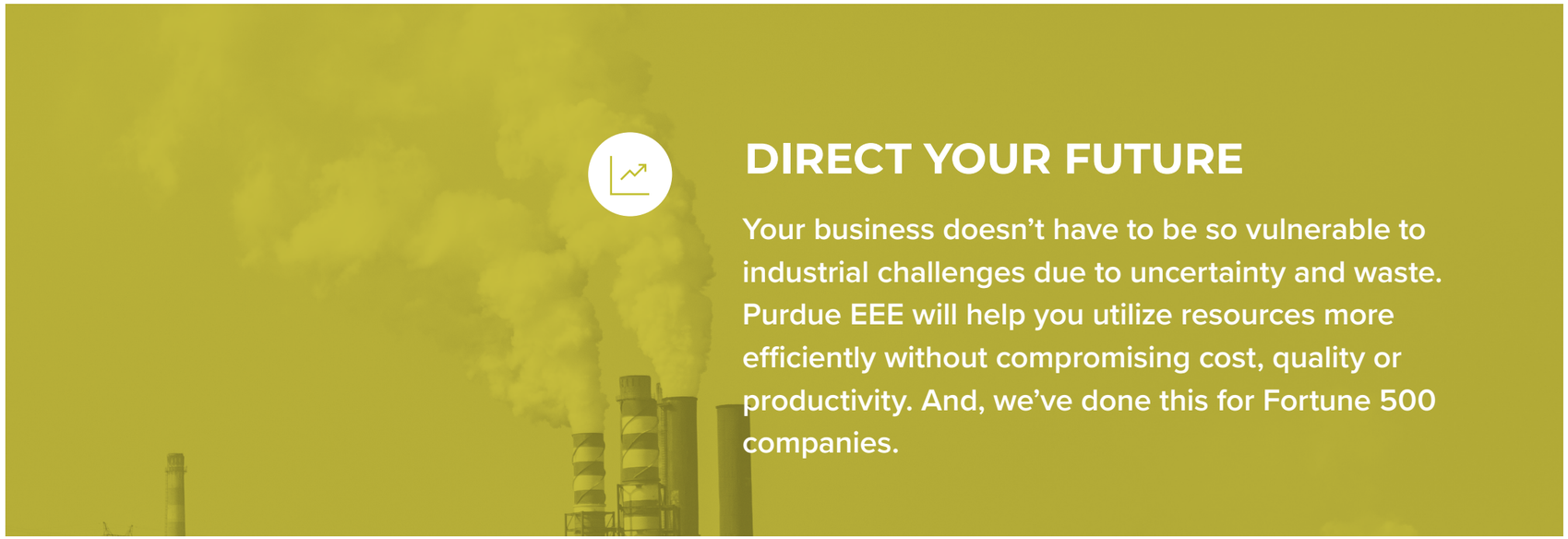
AWARDING-WINNING OUTCOME

As a result, the Scranton Army Ammunition Plant received the following awards:

- Army Material Command (AMC), *Green Innovation Award*
- Secretary of the Army Award Winner, *Industrial Sustainability*
- Secretary of Defense Environmental Excellence Award, *Industrial Sustainability*

"The above awards are highly prestigious in General Dynamics' customer community and General Dynamics was extremely proud of receiving them. I cannot thank Dr. Sutherland enough for his contributions helping GD receive these awards as well as helping GD make the ammunition products for our warfighters more affordable and our overall carbon footprint much smaller!"

- Dean Bartles



DIRECT YOUR FUTURE

Your business doesn't have to be so vulnerable to industrial challenges due to uncertainty and waste. Purdue EEE will help you utilize resources more efficiently without compromising cost, quality or productivity. And, we've done this for Fortune 500 companies.

/05

Thrive within a market that values sustainability.

Companies rise and fall with ever-changing policies, markets, and technologies. Only the prepared will survive. We'll help prepare your company for a sustainable future.

NOTABLE

Humanity could save

$26 TRILLION

through a global shift to sustainable development.

SOURCE: The Global Commission on the Economy and Climate

Since 1980 the Economic Productivity of water increased from

$4 /100 gallons to **$11.5** /100 gallons.

SOURCE: www.worldbank.org

U.S. GDP per unit of energy has increased by

23%

over 10 years prior to 2015.

SOURCE: www.worldbank.org

Our approach is simple.

1. Examine your system
2. Characterize the problem
3. Propose interventions
4. Test a solution
5. Interpret the data
6. Submit recommendations

Are you ready to lead your company into a sustainable future?

Collaborating with Purdue EEE today, means leading your company into a sustainable future. By anticipating future challenges to your bottomline, your company and its people will thrive within a market that values sustainability.

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