PW CONNECTICUT FOOTPRINT

Headquarters, Manufacturing, Assembly & Test

East Hartford
4.4M square feet
8,569 employees

Middletown
1.9M square feet
2,600 employees
PW CURRENT STATE

Positioned for growth

Focused on our core

Industry leading technologies…positioned for sustainable long term growth

Cumulative 3-yr. CT Hiring

East Hartford Headquarters

LEED Gold
SUSTAINABILITY DRIVERS

People

Culture
Community Commitment
HR Recruitment Priority
Employee engagement

Planet

Leadership
Global Steward

Power

Operation Optimization
Efficiency
Market Expectation
Corporate Reputation
Competitive Advantage

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“The whole future of our company is really going to be based on two things; innovation and sustainability.”
- Greg Hayes   | Chairman and CEO, UTC

“Sustainable operations are good for employees, the environment and business… Whether it's shrinking our factories’ footprint, developing innovative technologies or providing quieter, cleaner and more efficient products, we are committed to growing our company sustainably.”
- Bob Leduc | President, P&W

**EH&S Policy:**
Pratt & Whitney will not be satisfied until its workplace is safe from hazards, its employees are injury-free, its products and services are safe, and its commitment and record in compliance, sustainability, and protection of the natural environmental are unmatched.
2020 SUSTAINABILITY GOALS

Value stream engagement

United Technologies

2020 SUSTAINABILITY GOALS

Moving the world forward

- Reduce greenhouse gas emissions by 15%
- Reduce water consumption by 25%
- Implement global water best practices by 100%
- Reduce hazardous waste generation by 10%
- Recycle total waste by 90%
- Eliminate use of chlorinated & brominated solvents by 100%
- Reduce ergonomic risk by 50%
- Further reduce exposure to hazardous substances by 3x

Since 1997, United Technologies has tripled the size of our business while reducing our greenhouse gas emissions by 34% and water consumption by 57%.

ENGINEERING GOALS

Implement Design for Sustainability during the development cycle of new products.
Implement Life-Cycle Analysis during the development cycle of new products.

SUPPLY CHAIN GOALS

Incentivizing key suppliers to implement 11 specific sustainability measures.

ENVIRONMENT, HEALTH & SAFETY COMPLIANCE GOALS

- 0 Enforcement actions, non-compliance
- 100% Inspections without enforcement actions
- 100% Annual permit & program evaluations
- 100% Passing compliance/ assurance scores

Join the conversation
NaturalLeader.com
UTC.com

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Executive Sustainability Council
Designed to drive change throughout organization

Products & Services
Factory/Facility
Supply Chain
Community Outreach

Green Factory Teams
P2/Sustainability Teams
Site EHS Council
Site GMs

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WASTE HIERARCHY IN PRACTICE

Eliminating most hazardous
Cyanide Plating & Hexavalent Chromium Anodize
Cadmium / Lead
Perchloroethylene maskant
Chlorinated Solvents
Non-Chlorinated Solvents

Extending Material Life
Acids and Alkalis
Coolants

Reuse
Wood – pallets / boxes
Waste containers
Virgin Chemical Containers
Process Solutions – FPI Rinsewater

ACE tools
Green Kaizen
Green VSM

Eliminate Waste
Extend Material Life
Reuse
Alternative Use
Revert
Recycle
Energy Recovery
Treatment
Disposal
Strategic alloys are processed to make “melt ready” & controlled to meet stringent quality requirements.

Metal chips are collected, while used/off spec engine parts are securely destroyed.

Reuse alloys in forgings and castings.

New engine parts are manufactured.
P&W uses reverted paper products from internally established value streams.

Recycled fiber is used to create paper products.

While controlling physical and visual access (ITC/Export Control), sensitive company documents are securely destroyed.

Waste paper feedstock is provided to our paper mill supplier.
Participating UTC Sites – CONNOPs, UTAS, PWNB

~600 Secure Locked Bins picked up weekly (CT)

610 cases of tissue and towel products are delivered monthly to P&W

~15,782 lbs of recycled fiber creates 610 cases

**Success**

Monthly environmental savings realized by revert process vs. using virgin fibers:
- 55,237 gal of water
- 32,353 kw of energy
- 2,999 gal of oil
- 473 lbs of air pollutants
- 24 cubic yards of landfill

YTD 2017 → 40,000 lbs/mo processed

Expected 2017 → 500K lbs
Reusable parts packaging examples:

- “Pizza Box” Packaging, Used for 182 part numbers across 8 engines
- “Large Ring” Containers formed to shape of part
- Removable Cavity Trays
- Kit Carts - Modular Configured Trays and Back Panels
REUSE AND RECYCLE

Recycled Value Streams

Wood  Metal Alloys
Paper  Abrasive Medias
Cardboard  Plasma Spray Powders

Cafeteria composting goal of 100% recycled & 0% to landfill

→ E. Hartford 87,480 lbs. in 2016
→ Middletown started in 2017

Success

2016
120,000 lbs. – Reused pallets
880,000 lbs. – Wood Recycled

2017
Reduced Recycling Costs in Middletown
Reduced Purchasing in North Berwick
SUSTAINABILITY & WASTE MINIMIZATION

Sustainability leadership
Focus on hierarchy for elimination & minimization
Use of ACE tools
Measure → Act
THANK YOU

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