

# **OECO A Brief history**



Gerald L Osborne left WWII with a solid knowledge in transformers and started Osborne Electronic Co in his basement in 1946

# OSBORNE ELECTRIC —— COMPANY——

In 1948 he moved to an abandoned grocery story near 40<sup>th</sup> and division, then in 1952 moved to 7<sup>th</sup> and Hawthorne into a building previously vacated by Hawthorne Electronics (now Tektronix in Beaverton)



# **OECO A Brief history**

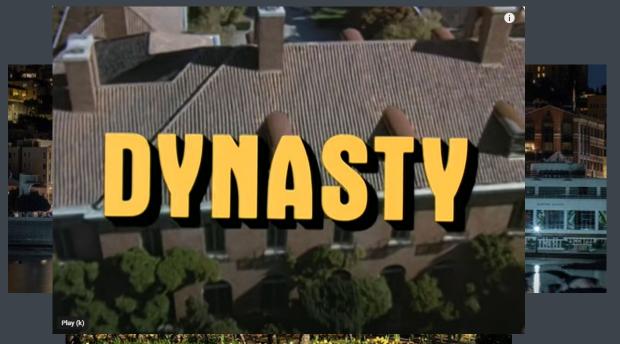


By 1961 Gerry had run into financial troubles and lost the business to Lurline Roth. Rather than fully change the name, she registered the business under the familiarity known to the company and customers, shortening Osborne Electric Company to OECO.

Fun Fact, Lurline Roth is a famous SF Bay Area philanthropist, famous for two large CA landmarks

**Ghirardelli Square** 

And the 700+ acre 56-room Filoli Estates



# **OECO A Brief history**



By 1985, OECO had expanded to 12 buildings near 7<sup>th</sup> and Hawthorne in what was referred to as OECO city and employed nearly 700 people.

In April 1984, anti-war protestors targeted OECO's downtown facilities due to its defense contracts, resulting in 25 arrests. Portland City Council floated the idea of a Nuclear Free Zone

In 1985, OECO launched an \$8M building in Milwaukie, the Largest in Oregon since 1979. Senator Packwood & the Milwaukie HS band keynoted the ribbon cutting in 1986



#### **OECO & other names**



**OECO** in 2003

\$25M

**Acquired by Danaher** 2003

\$6.5B

**Sold to Meggitt 2011** 

\$2.5B

**Acquired by Parker Hannifin 2022** 

\$20B

**OECO in 2024** 

\$100M



# **OECO Today**

1 165k square feet

Roughly 100,000 factory, nearly 25,000 vacant office space upstairs

2 ~240 employees & counting

Roughly 125 direct staff, with 15+ positions open

3 Full design, production, & repair capabilities

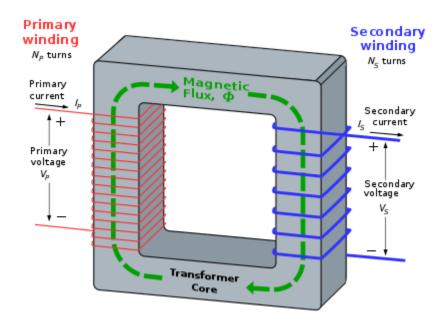
We are a fully integrated design house, not just a contract manufacturer

4 10-year lease through 2033 w/ two 5-yr options

Long term stability, nearly 50 years in this building by end of lease.



### Magnetics





**1** Power Transformers

Transformation of electricity from one circuit to another



2 Cockpit Dimmers

Like the old dining room lamp dimmer in your first house.

# Input current creates a magnetic field which creates an output current. Viola!

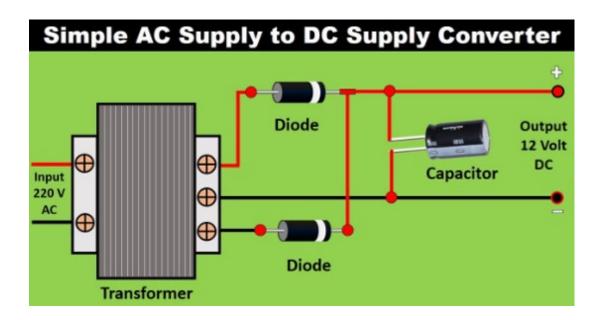
Products range from several thousand pounds to the size of a shirt button. Usage is typically as part of a more sophisticated power system, like the lunar module which had over 500 OECO transformers on each Apollo mission in 1969!

# **Power Supplies**



1 Power Supplies

Taking an input voltage (AC or DC) and current and supplying the correct needed power (AC or DC)

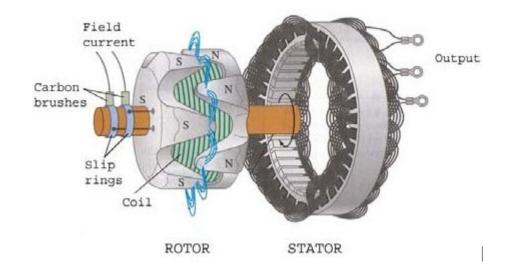


When we start adding additional electronics to the transformer, it becomes a power supply

Products range in size, shape & power. The simplest usage is a small transformer inside an adapter that sits between your wall outlet and your phone. Ours are slightly more complicated...



#### Power Generation





1 Permanent Magnet Alternators

Using another source of mechanical rotation we spin a magnetic rotor to provide auxiliary power



2 Generators/Alternators

Creating an electromagnet rotor
allows more power, flexibility and less
degradation over time

To generate power, we use the same concepts but rotate a magnetic field (rotor) inside a stationary array of copper (stator).

Our largest is an 80,000W Generator for the M109A7 Paladin, it weighs 100 lbs and takes over 70 hrs to build. On its own, it would power 25 Air Conditioners. Simultaneously.

# **Power Sensing**



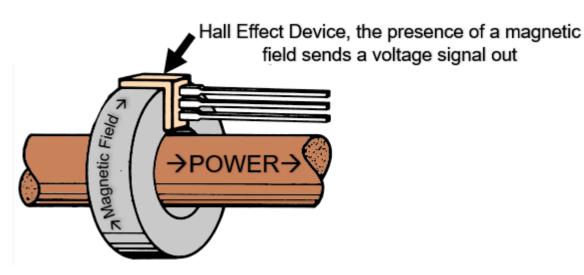
1 Gaussmeters

Simply measuring magnetic field for scientific applications



2 Current Sensors

Measuring the strength of the magnetic field to verify operation



We can generate power, and convert power, so our ability to sense power becomes key. If power can generate a magnetic field, we just need to measure that field.

The simplest hall effect device in your life is in the base of your laptop and senses a small magnet inside the lid to turn on/off the screen when you open or close it.



#### Site facts & overview

- Safety
- Sustainability
- Leadership
- Product Mix
- Customer Mix
- Demographics
- Job Skills
- Current headwinds

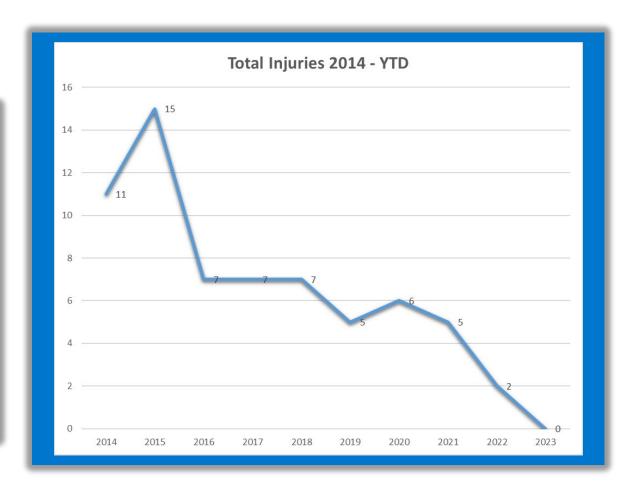




# Health/Safety/Environmental Review

Physical safety of site, environment, and personnel

- 0 Recordable Injuries 2023
- Target 1 'concern' reported per EE
- "No Exposure" certified stormwater
- Large Quantity Generator Haz Waste
- No wastewater or Air Permits
- No OSHA/EPA audit findings





#### SUSTAINABILITY



# Over 1150 panels covering 50,000 sq ft producing up to 640 MWh per year

With enough energy to power 60 homes, OECO installed one of the largest panel arrays in the state of Oregon in 2022. The system has saved over 1M lbs of CO2 emissions, the equivalent of planting over 8000 trees

OECO has also eliminated Single-use Plastics in the cafeteria market and installed a \$250k water cooling tower to reduce our water usage from 9000 to 5000 CCF



#### **Fully supported internally**

Site Leadership Committee (SLC)



**General Manager**Rob Gustine



**Manufacturing**Rosalin Tjia



**Engineering**Kristina Korosi



Sales & Marketing
Chris Kuble



**Quality**Andrew Castillo



Sr. Manager, Human Resources Linda Harris



Contracts & Trade Compliance
Justin Hackett



Continuous Improvement

Deb Kaiser



Manager, HSE
Nicholette
Romashko



Manager, Procurement Lisa Wright



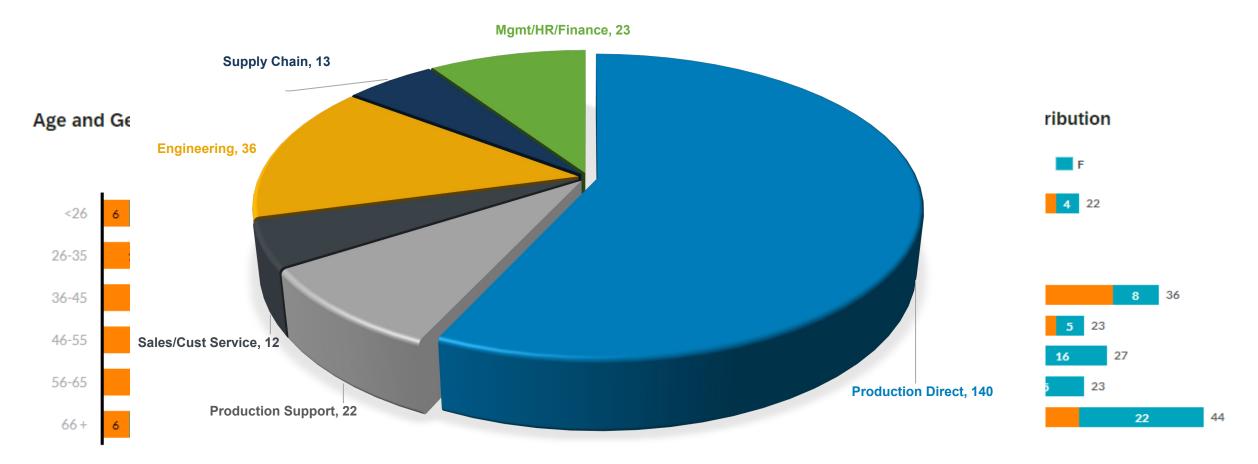
**Finance**Sean Jordan



Program
Management
Eric Davidson



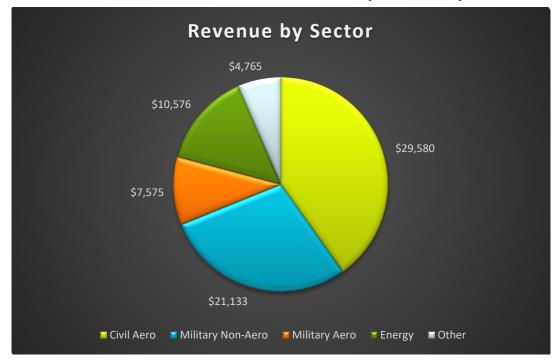
# OECO employee demographics



**OECO Breakdown by numbers** 

Revenue Delineation – Market Sector & Aftermarket

Market Sector (2022)



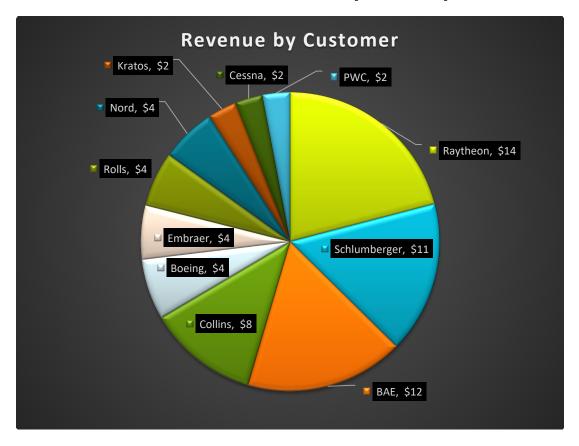
- Equal split between Military & Civil Aero at roughly \$30-35M ea
- \$15M provided from energy (oilfield) & commercial Gauss Meters



#### **OECO Breakdown by numbers**

Revenue Delineation – Market Sector & Aftermarket

#### •Customer (\*2022)



- Total Raytheon Technologies = ~\$28M (Includes Hamilton Sundstrand, Rockwell Collins, Pratt & Whitney, and Raytheon)
- BAE includes land vehicles (\$5.5M) & aircraft electrical (\$6.5M)
- Boeing runs between \$4M-7M depending on the year
- Embraer & Cessna are both increasing rapidly due to travel shifts since Covid



# Typical Manufacturing Skills

#### Winding



Wrapping wire ranging from the size of your pinky down to 1/3 the size of a human hair





2

**Electrical Assembly** 

Soldering, assembly, and workmanship



Machine/Grind



Manual & meticulous, dimensions down to 1/10,000 inches



**Test Technician** 

High & Low voltage performance testing







Marijuana continues to make hiring 'tricky' as the FAA requires us to follow the Schedule I substance list, where it is still federally banned



ORS 652.020 & 653.265
prohibits manufacturing
workers from working over 55
hrs, or 60 hrs with consent.
This limits our competitive
landscape



Most of our day shift starts at 5 or 6am, however no bus service runs an 'earlybird' route to support this business district.



A significant portion of earlycareer job seekers don't know or understand the careers manufacturing can provide.





