

A nighttime aerial view of a city skyline, likely Los Angeles, with numerous skyscrapers and city lights. A solid green horizontal banner is overlaid across the middle of the image, containing the text "Renewable Energy Solutions" in a bold, yellow, sans-serif font.

Renewable Energy Solutions

SUSTAINABLE RENEWABLE ENERGY SOLUTION

**BETTER THAN
SOLAR, WIND
OR GENSETS**

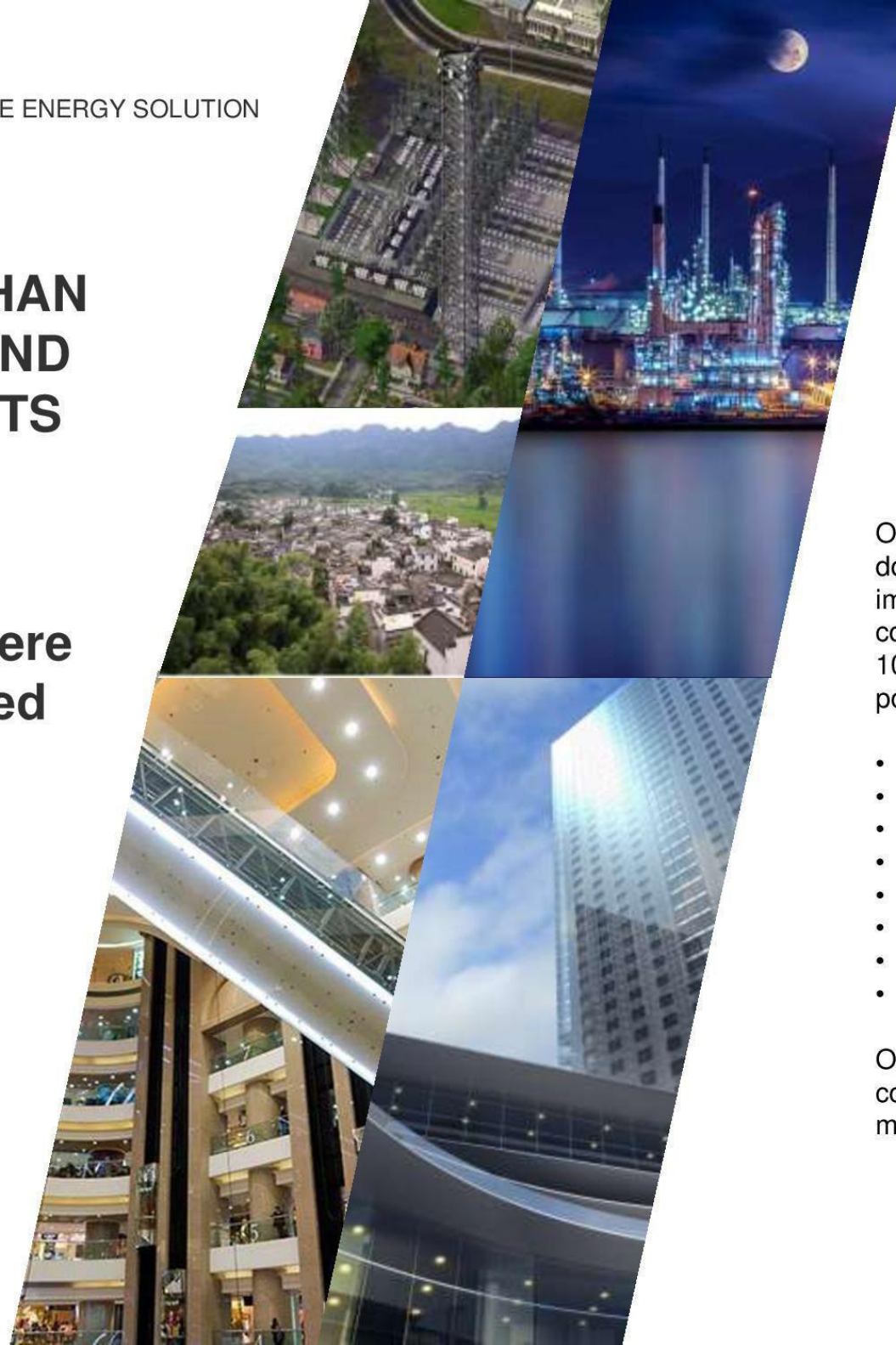
**Power Where
It's Needed**

**Affordable
kWh**

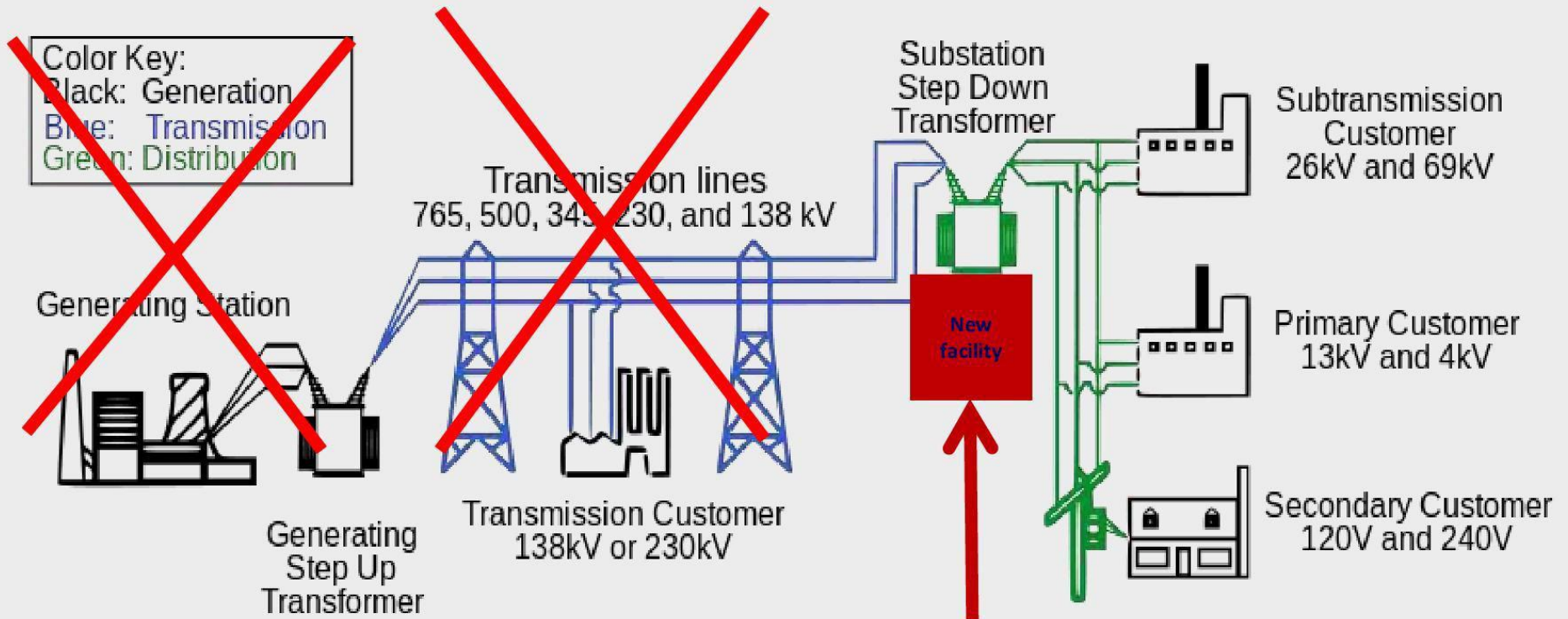
Opportunity to save millions of dollars over time with zero impact to the environment. A complete energy solution with 100% financing available to power:

- Government Buildings
- Off-Grid is now possible
- Micro Grids
- Industrial Facilities
- Residential Complexes
- Shopping Malls
- Commercial Buildings
- Hospitals and Hotels

Or any facility that currently consumes 40,000 kWh per month or more in electricity.



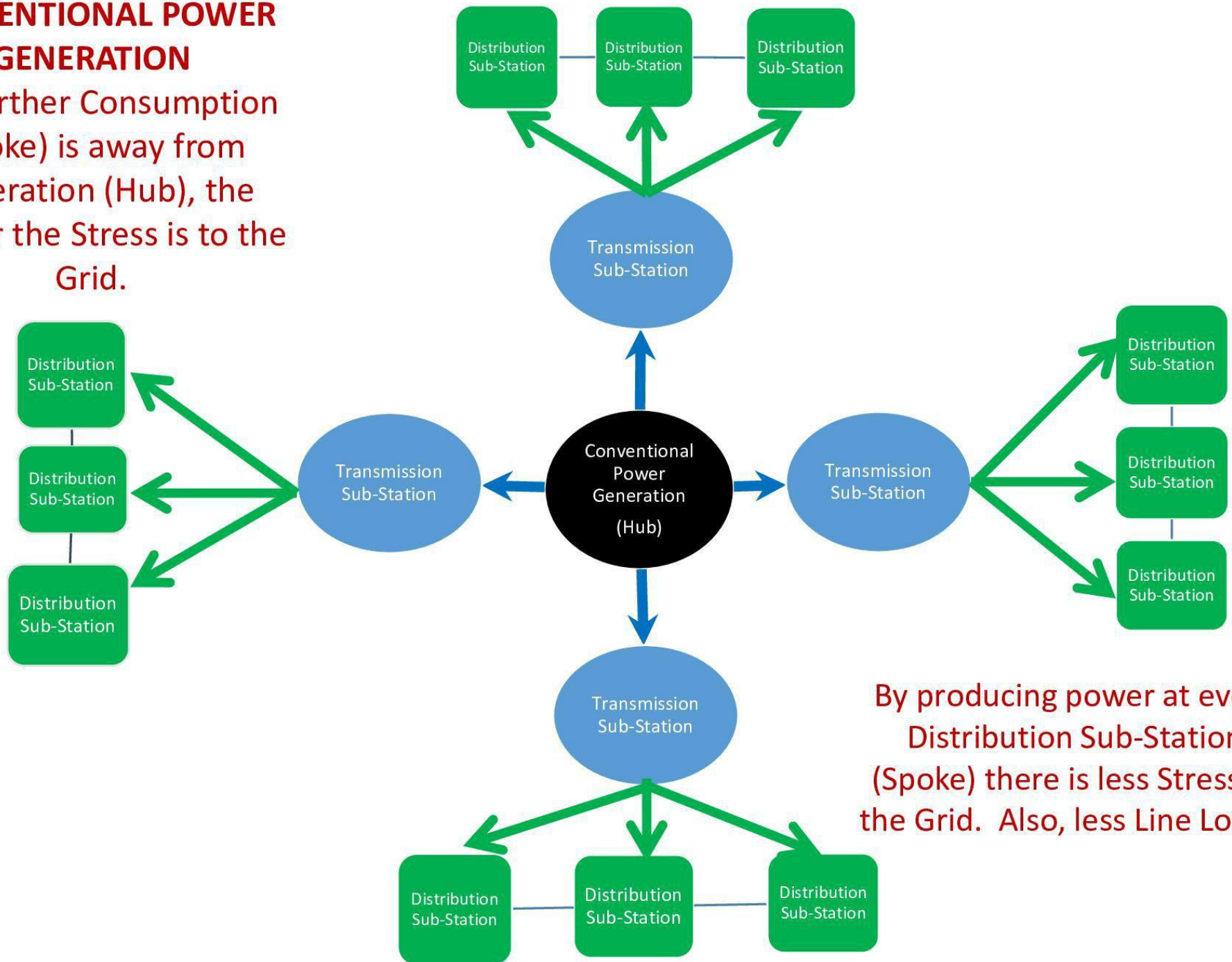
Conventional Generation Transmission and Distribution



By Installing next to the Substations you avoid all Transmission Losses and Costs. We work with the Grid to stabilize existing energy generation or we can work off-Grid.

CONVENTIONAL POWER GENERATION

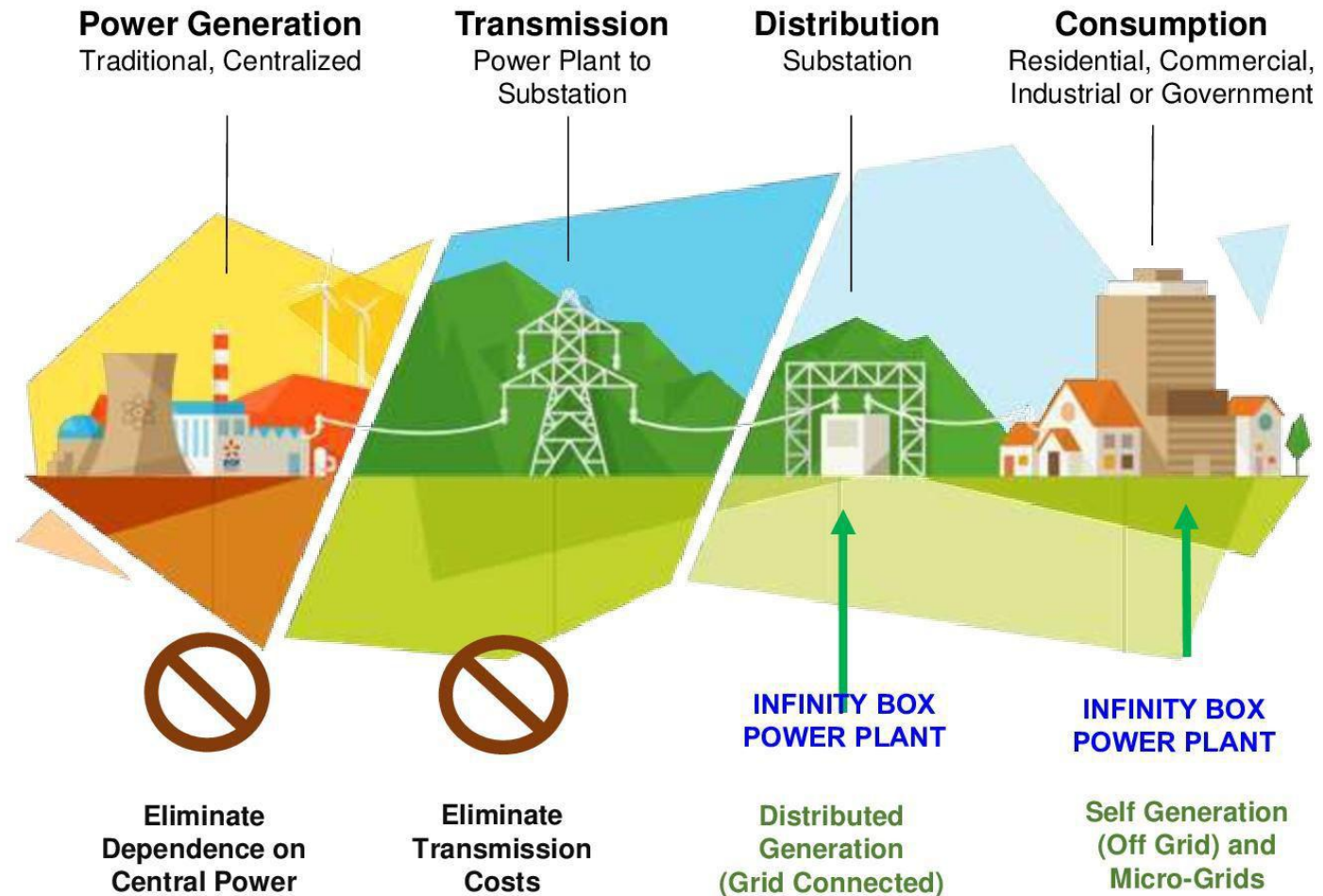
The farther Consumption (Spoke) is away from Generation (Hub), the greater the Stress is to the Grid.



By producing power at every Distribution Sub-Station (Spoke) there is less Stress to the Grid. Also, less Line Losses

DEPLOYMENT METHODS

- Install next to the substations and avoid transmission costs.
- Connect to the grid to stabilize existing energy requirements and benefit from net-metering.
- Install off-grid for 100% grid independence.



Scalable Deployments



1 MW
17 Units

Industrial Facility

From industrial zones to entire industrial cities, the **InfinityBox®** ability to scale to the power needed for these facilities to run 24/7.



10 MW
170 Units

Isolated Community

The **InfinityBox®** is the only solution that has the ability to power a rural community where access to electricity is limited or costs too much to distribute.



Scalable
From 5 - 50 MW
850 Units

Large Power Plant

Whether it's a big city or a small town, the **InfinityBox®** is able to connect directly to the distribution substations to efficiently power entire cities.



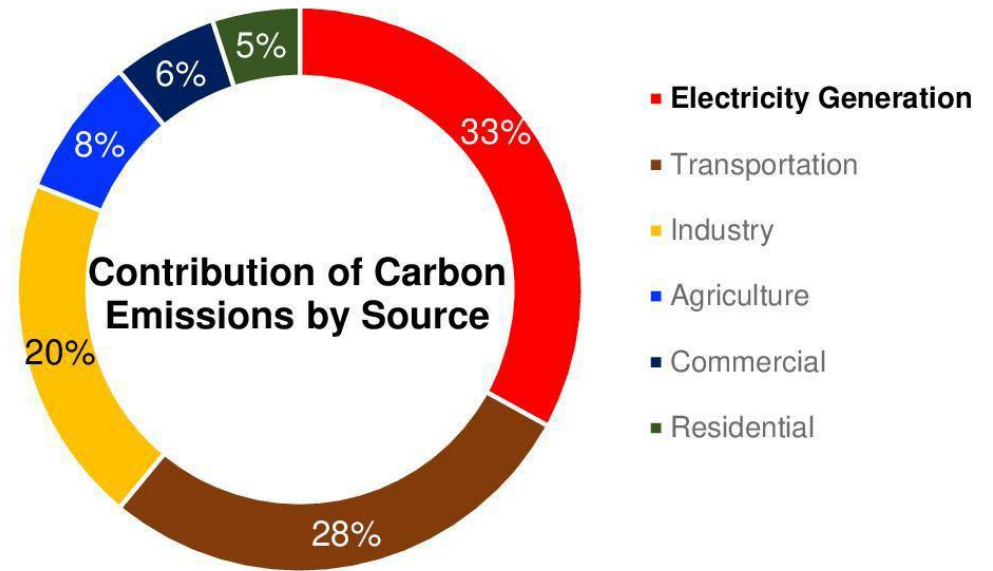
From 10 MW To 100 MW

Utility Scale

The **InfinityBox®** is the only solution that has the ability to power a Distribution Substation in the middle of a city to Distribution Substation in a rural community where access to electricity is limited or costs too much to distribute. The footprint is small; the sustainable solution is Huge!

NO OTHER RENEWABLE ENERGY SYSTEM CAN PROVIDE

ZERO ENVIRONMENTAL DAMAGE



A **InfinityBox®** hybrid energy system can significantly reduce the contribution of carbon emissions as a result of electricity generation.

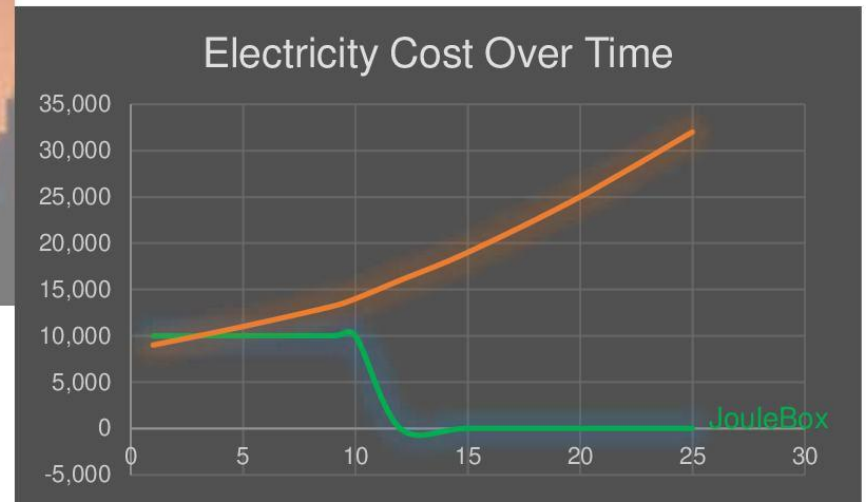
Unlike other renewable sources, the **InfinityBox®** is the only energy solution that has no impacts to the ecosystem.



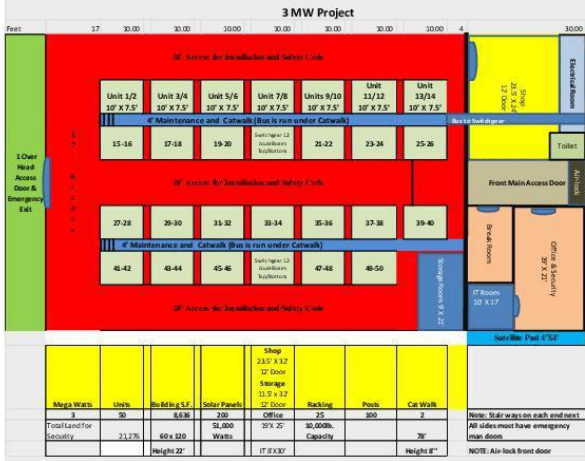
CONTROL POWER COSTS



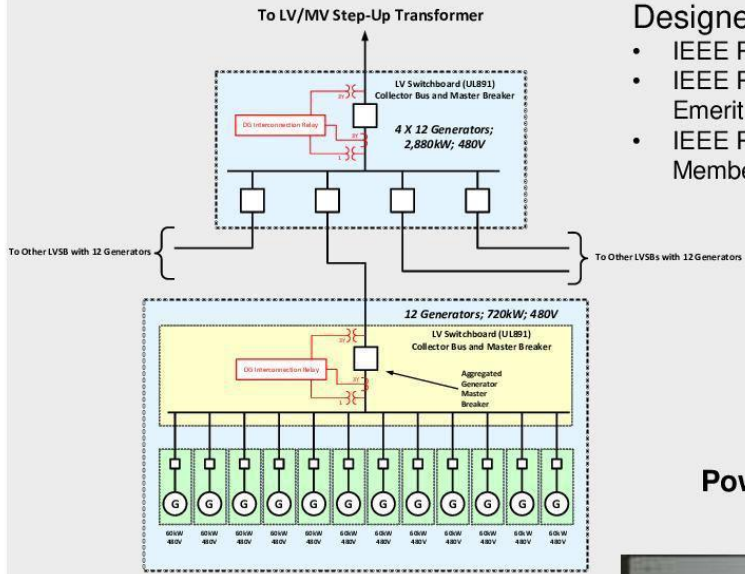
The InfinityBox[®] provides clean, green renewable energy. Whether a purchase or PPAs, the InfinityBox[®] provides affordable power that is not subject to market fluctuation for fuel.



Building, Racking, Sound & Solar Module #1



Electrical Intertie & Grid Protection Module #2



Designed by a Senior Member, IEEE

- IEEE Power Systems Relaying Committee (PSRC), Main Committee
- IEEE PSRC Rotating Machinery Protection Subcommittee, Chair Emeritus
- IEEE PSRC Rotating Machinery Protection Subcommittee, Committee Member

We make the Grid stronger

Power Q (Power Quality Box) regulates sine waves, harmonics, voltage spikes



14 Units are Combined



ABB Switchgear

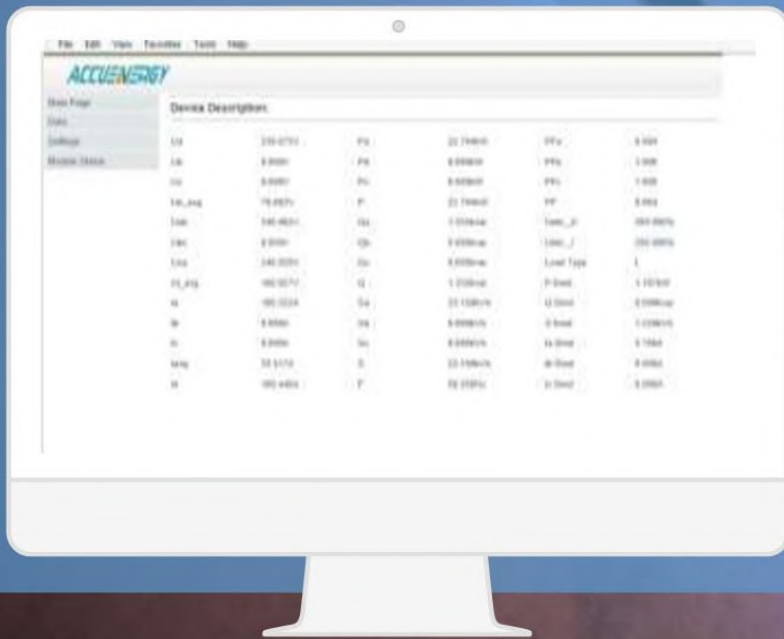


Woodward EasYgen



Beckwith Intertie Protection

REMOTE MONITORING



Utilizing satellites, the entire site will be able to be monitored from anywhere in the world.

Real-time video surveillance and system health reports are readily assessable to ensure that the facility that's being powered has no unplanned down time.



HOW WE COMPARE WITH TRADITIONAL RENEWABLE

Solar	Wind	Geothermal	Hydro	InfinityBox®
<ul style="list-style-type: none"> Requires large physical space Not feasible for all geographic locations 	<ul style="list-style-type: none"> Requires large physical space Not feasible for all geographic locations 	<ul style="list-style-type: none"> Requires high investment to locate to suitable space 	<ul style="list-style-type: none"> Not feasible for all geographic locations 	<ul style="list-style-type: none"> Requires minimal real estate Can be setup anywhere and everywhere
<ul style="list-style-type: none"> Dependent on sunny weather 	<ul style="list-style-type: none"> Output is proportional to wind speed 	<ul style="list-style-type: none"> High risk of failure 	<ul style="list-style-type: none"> Can be affected by droughts 	<ul style="list-style-type: none"> No impact on weather patterns
<ul style="list-style-type: none"> Transmission costs Output losses 	<ul style="list-style-type: none"> Transmission costs Output losses 	<ul style="list-style-type: none"> Transmission costs Output losses 	<ul style="list-style-type: none"> Transmission costs Output losses 	<ul style="list-style-type: none"> Zero transmission costs
<ul style="list-style-type: none"> Solar panel maintenance 	<ul style="list-style-type: none"> Low maintenance 	<ul style="list-style-type: none"> Maintenance shut-downs impact output Backup power is expensive 	<ul style="list-style-type: none"> Maintenance shut-downs impact output Backup power is expensive 	<ul style="list-style-type: none"> Each generator only needs to be shut down for 15 mins per year
<ul style="list-style-type: none"> 6-8 Hours of power per day 	<ul style="list-style-type: none"> Power generation is seasonal 	<ul style="list-style-type: none"> Consistent power 	<ul style="list-style-type: none"> Consistent without a drought 	<ul style="list-style-type: none"> 24/7/365 days of power
<ul style="list-style-type: none"> 12-18 months to setup 	<ul style="list-style-type: none"> 12-24 months to set up 	<ul style="list-style-type: none"> 24-36 months to setup 	<ul style="list-style-type: none"> 24-36 months to setup 	<ul style="list-style-type: none"> 6-8 months to setup

YOUR PATH TO GREEN



INSTALLATION PROCESS



Shipment

The InfinityBoxes will be manufactured in California and shipped out on freights to their housing location.



Housing Container

A units are installed in 40' customized containers..



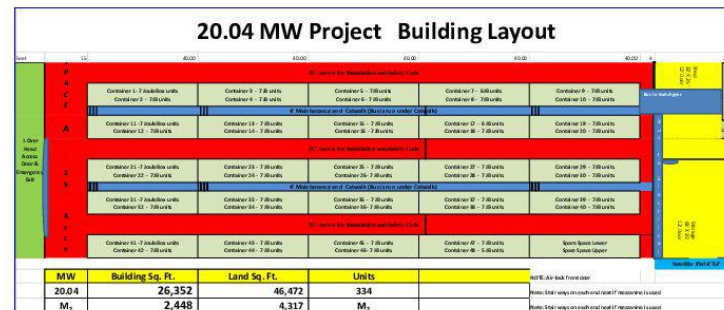
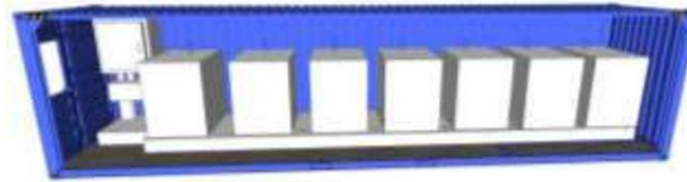
Electrical Set Up

The containers are installed in a facility next to the Sub-Station. Installation in the new facility is in less than a month



Switch On & Monitor

Within a few months of signing an agreement for the JouleBox, the installation will be complete, allowing your facility to run purely on renewable energy.





Power Generation Technology

MOST EFFICIENT GENERATOR EVER MADE

ABOUT THE JOULEBOX

The **InfinityBox®** is a hybrid electricity generator that produces clean, green energy 24/7/365, using Solar, Wind Turbines and Lithium Ion Batteries.



Baseload Power
24/7/365

Unit Capacity

Annual Output

60kW

525,600

One 60kW InfinityBox® hybrid generator can power a 65,000 sq. ft. building with constant electricity and save thousands on a monthly electricity bill*

** Depends on the energy rate in your state and the usage patterns.*

- ❑ Designed by a credible team of clean energy experts
- ❑ Multiple clean energy sources working in harmony
- ❑ Generates constant electricity all year round
- ❑ Requires very little space compared to any other renewable system
- ❑ Capacity never interrupted for maintenance
- ❑ Huge savings and government incentives
- ❑ Multiple generators are combined to meet any size capacity needs
- ❑ Revolutionizes the sustainable energy production industry

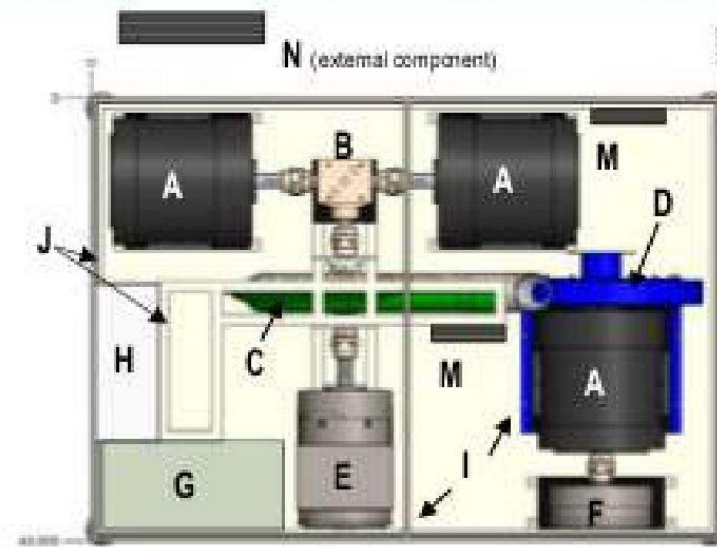


InfinityBox® Quick Facts

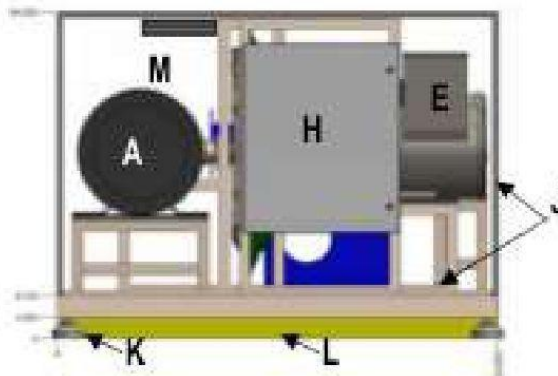
- Measures 7' (in length) x 5.5' (in width) x 5' (in height).
- Weighs approximately 6,000 pounds.
- Requires only 3 solar panels.
- Typical power output of 525,600 kWh per year.
- Maximum power output of 657,000 kWh per year.
- Real-time satellite monitoring with GPS.
- 10 years manufacturer's warranty.
- Complete replacement in case of catastrophic failure.
- 1 MW of capacity requires 17 units.
- 7 units fit in a 40-foot container.

Basic System Components

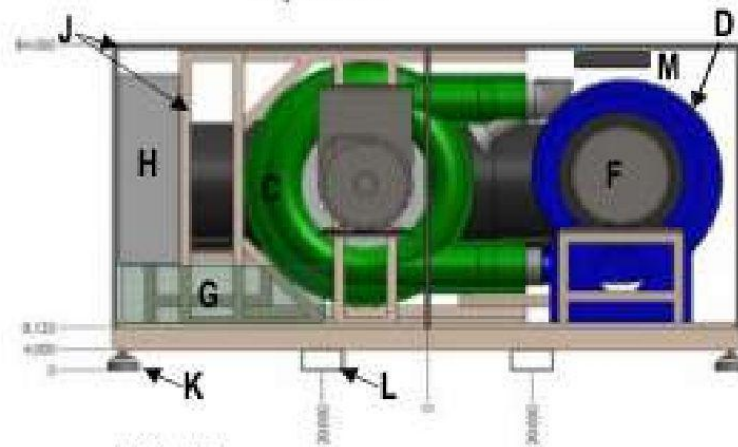
- A 40 HP DC Star Motor
- B Gear box transfer case
- C Wind Turbine
- D Power Wind Blower
- E 60kW Marathon AC Electric Generator
- F 30kW Marathon DC Generator
- G 30kW BMZ Lithium Ion Battery Brick
- H PowerQ® Power Factor Correction Unit
- I JouleBox® base steel platform
- J Steel frame
- K Leveling mounts
- L Fork Lift sleeves
- M Sound attenuation unit (@ intake & exhaust)
- N Beckwith Intertie Protection Unit



Top View



End View



Side View

$$\text{HP} = \text{Torque} \times \text{RPM} / 5252$$

Nothing in the formula says anything about Watts

Historically motors that needed more HP added Watts

Not the only way!

$$1 \text{ HP} = 746 \text{ W}$$

$$40 \text{ HP} = 30,000 \text{ W} \quad (95\% \text{ efficiency})$$

(1500 loss)

Conventional Motor

Watts IN

EMF

Back EMF

Work OUT

31,500

30,000

30,000

30,000



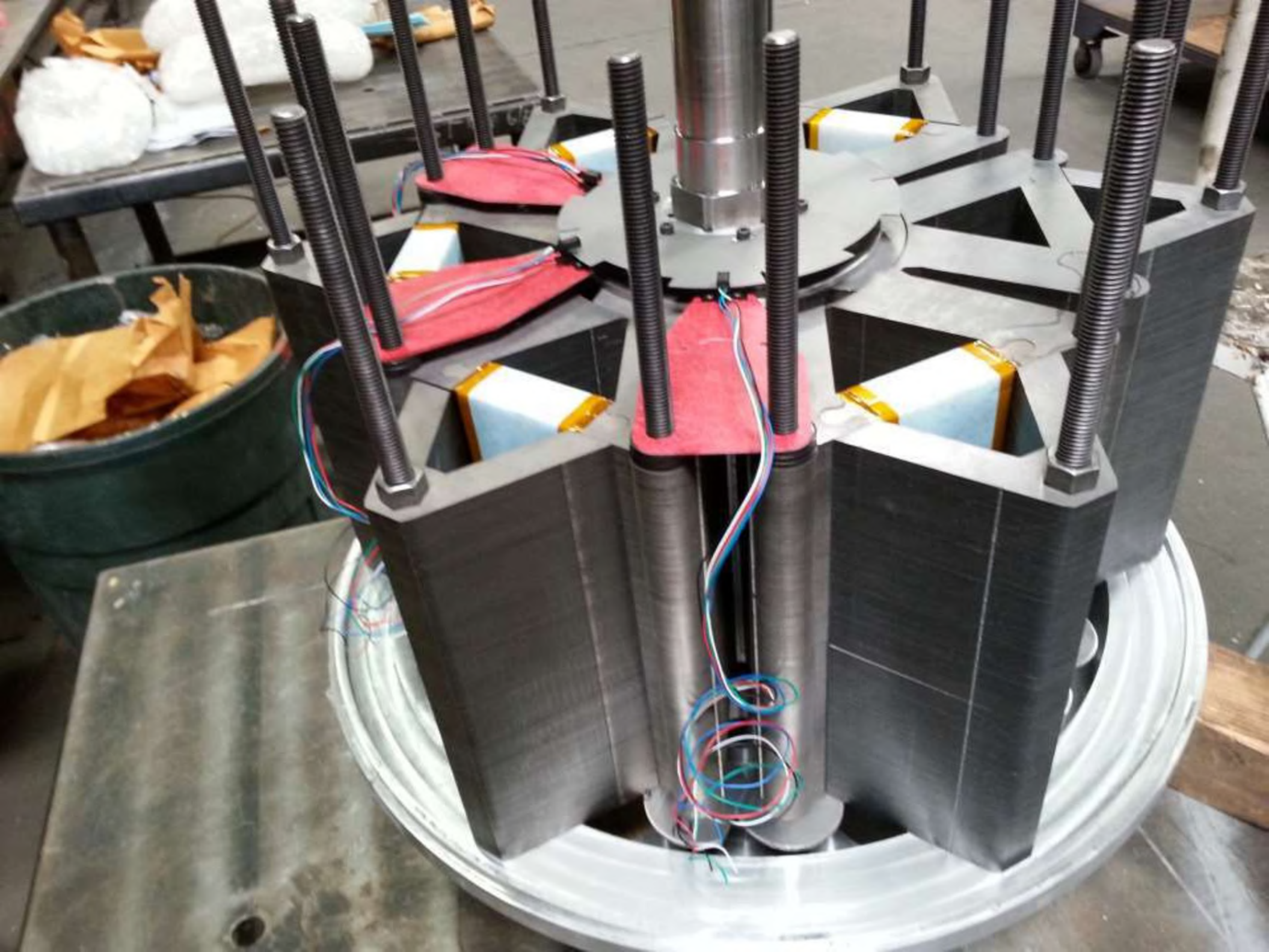
8,000 from Battery

30,000

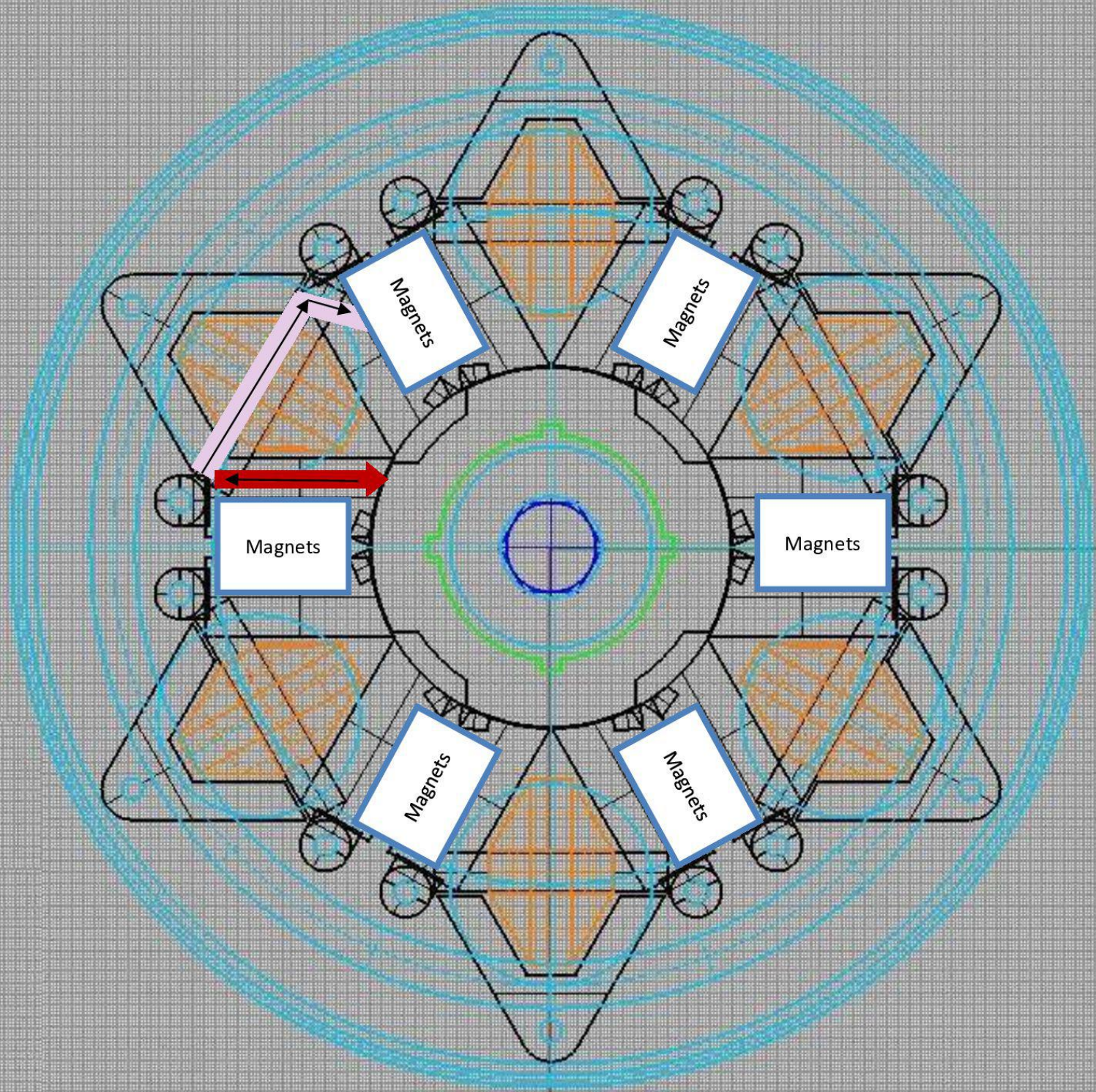
our motor

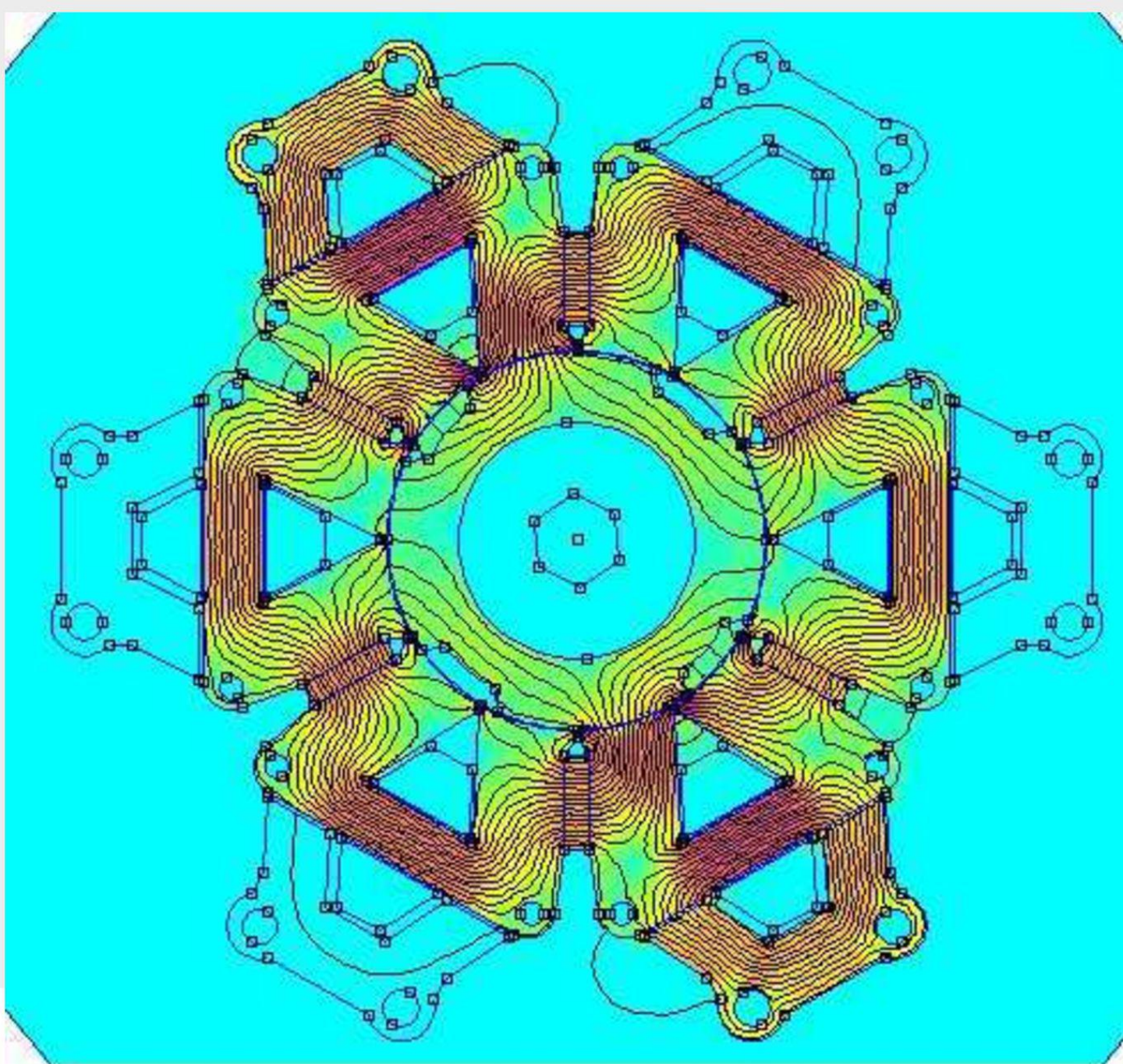
Work Out

30,000









Magnetic Fields Inside the Patented Star Motor

$$\text{HP} = \text{Torque} \times \text{RPM} / 5252$$

Magnetic Coil Flux (8000 W = 5,000 gauss) +
Permanent Magnet Flux (+/-15,000 gauss) =
Dual Flux

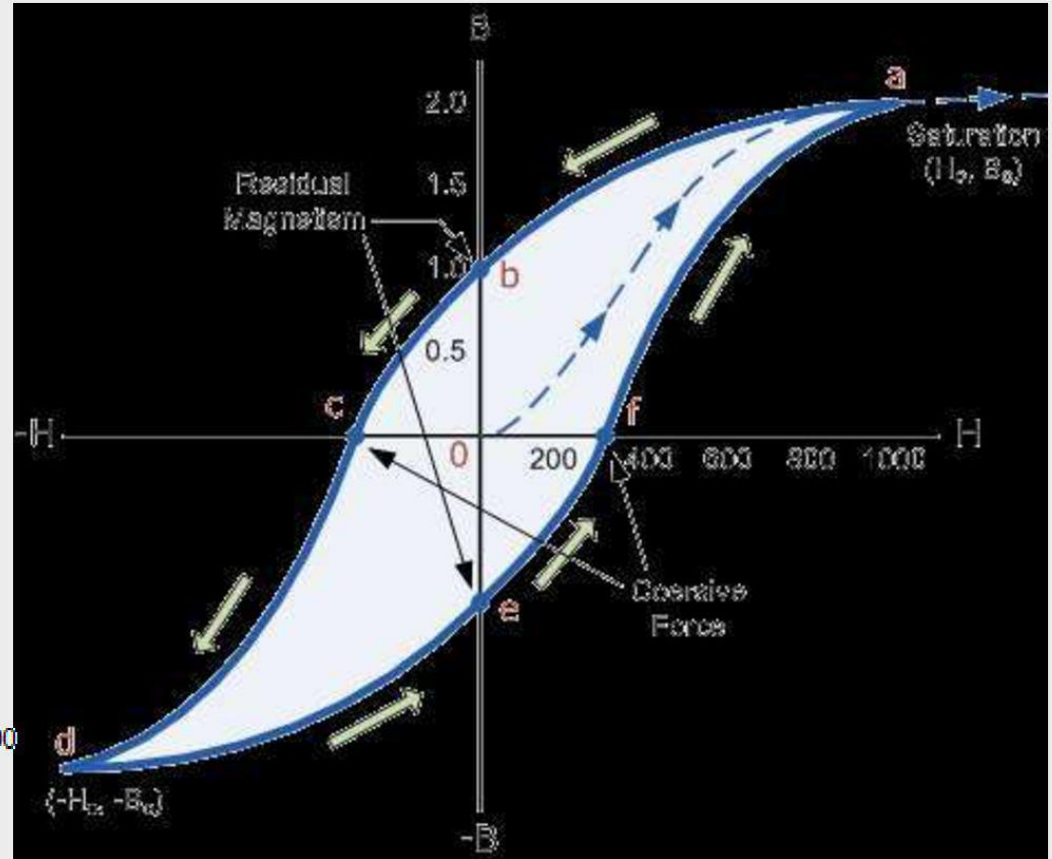
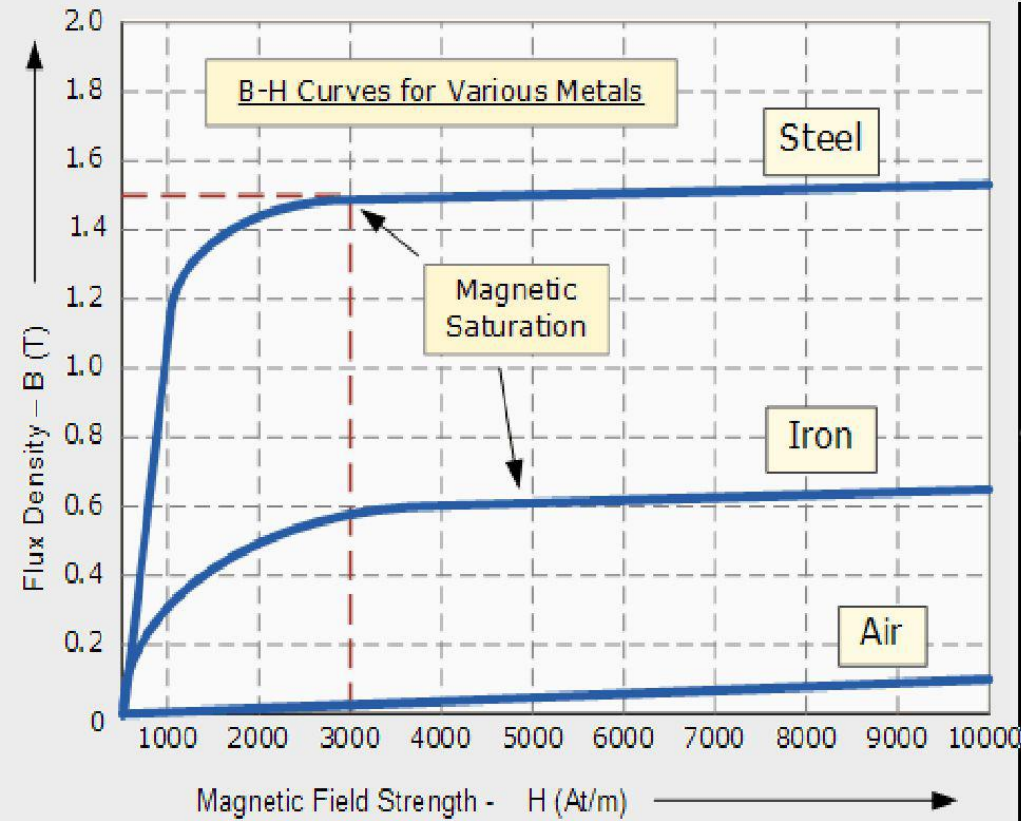
=

Max Saturation Faster (+/-20,000 gauss)
More **Torque** with Less Watts

We operate on the High side of the BH Curve

$$\text{HP} = \text{Torque} \times \text{RPM} / 5252$$

We operate on the High side of the BH Curve



Heat is pure LOSS .

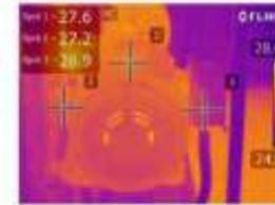
The surface temperature of continuously (and correctly) operating general purpose industrial electric motor will easily be 80°C (176°F) and perhaps as high as 100°C (212°F).

The Star Motor has minimal heat loss because the Back EMF is not lost to Heat but is redirected and reused. Only 2°C - from 27°C to 29°C

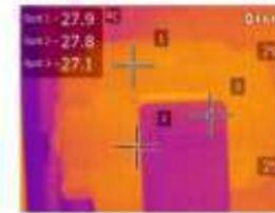
Thermal Pictures of the motor and unit while running at baseload.

Completed by Patrick Laurie a certified thermographer.

Before Operation

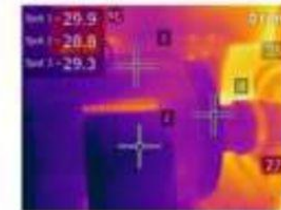


27.6°C
 27.2°C
 26.9°C

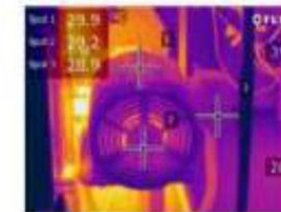


27.9°C
 27.8°C
 27.1°C

After running for 45 minutes with minimal change in temperature.



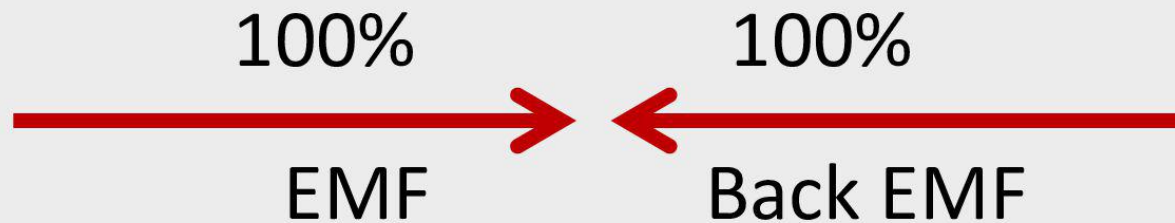
29.9°C
 28.8°C
 29.3°C



29.9°C
 29.2°C
 28.9°C

$$\text{HP} = \text{Torque} \times \text{RPM} / 5252$$

Back EMF creates Resistance



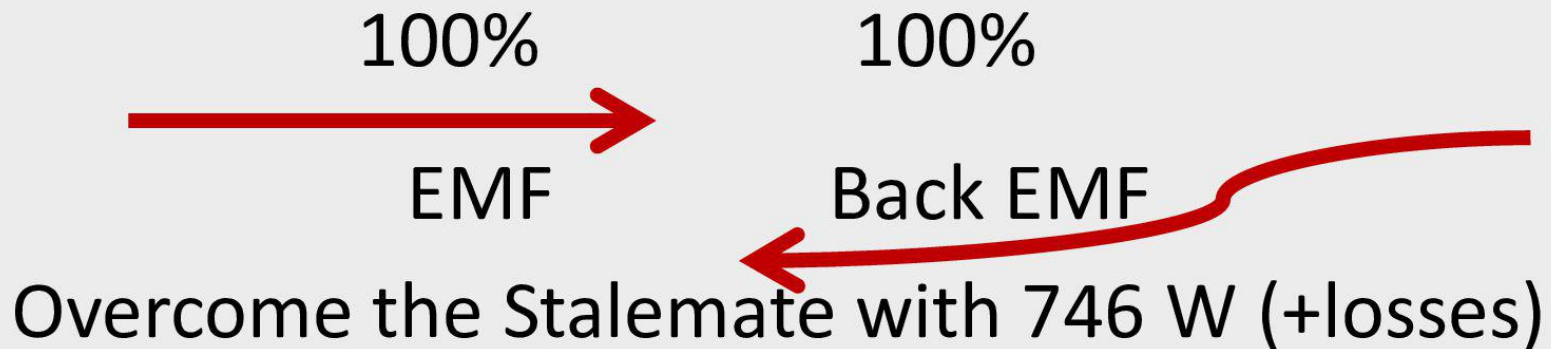
Overcome the Stalemate with 746 W (+losses)

95% Efficient

Most are about 28-29% efficient

$$\text{HP} = \text{Torque} \times \text{RPM} / 5252$$

Redirecting Back EMF reduces Resistance



95% Efficient

Redirect Back EMF = Reduced Resistance

More RPM Using Less Watts

Laws of Thermodynamics

Conservation of Energy

Energy Cannot be Created or Destroyed

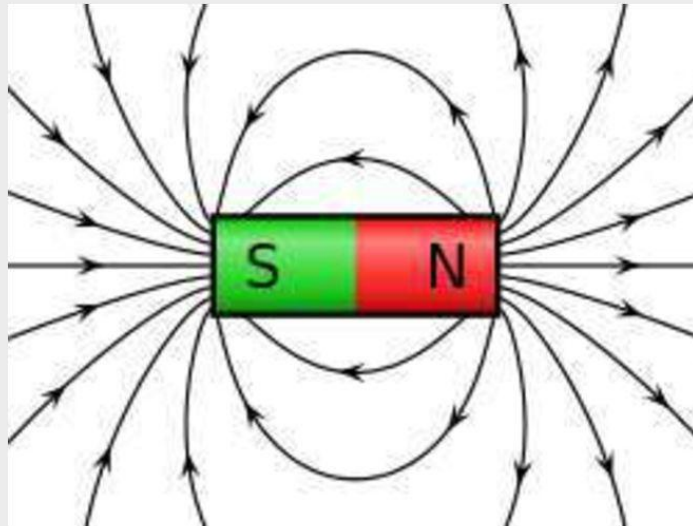
No Such Thing as Perpetual Motion Machines

Laws of Thermodynamics

Conservation of Energy

Only Applies to a Closed System

Permanent Magnets can never be a Closed System



Energy is always coming OUT of the N end and coming INTO the S end

Combining PM with Electro Magnets captures the lost N energy

Laws of Physics

Balance

1 HP = 746 Watts (.746 kW)

3 – 40 HP Motors = 120 HP

30 kW DC Generator + 60 kW AC Generator = 90 kW

120 HP = 90 kW (.750)

We are in Balance!