



The Power of Attraction <sup>TM</sup>

Company Overview  
May 2023

# Company HQ in Florida

Corporate Headquarters:

10550 72<sup>nd</sup> St., Suite 507  
Largo, FL 33777  
(727) 342-7373

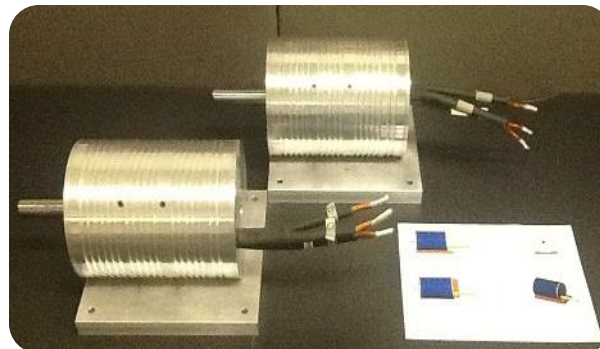


# What motivates MagLev Energy, Inc.

Nearly 65% of worldwide energy production is used to run electric motors of all types (average electric motor efficiency today is <65%)

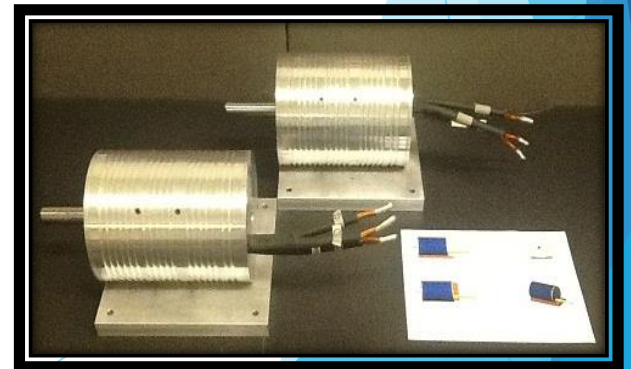
- ▶ >90% efficient motors can change economies
- ▶ >90% efficient alternators can change cost of operations
- ▶ >90% efficient systems can reduce fuel usage significantly

MEI's technology could reduce energy consumption by 35% across all industries on a global basis



# What does MEI do?

- ▶ Introduced an entirely new class of electric motors and Permanent magnet alternators
  - ▶ Electric motors so efficient, so cool that you can touch it while running
  - ▶ Motors and alternators that last for over 15 years
  - ▶ Designed and tested for demanding, industrial applications



# MEI: Revolutionary Power Technology

- ▶ Technology validated by highly respected experts:
  - ▶ University PhD's: Engineers of varying disciplines
  - ▶ University of Central Florida (UCF) and Magnetology expert
  - ▶ Space Alliance Technology Outreach Program - sponsored by NASA
  - ▶ DARPA (DOD technology appropriate)
  - ▶ Current : **HPAC motor / alternator efficiencies are >95%**
- ▶ **MEI Patented**
  - ▶ Proven prototypes: demonstrated architecture, energy efficiency, motor/alternator application targets, 'no-idle' power units (APU), vertical wind turbines, and integrated systems (golf cart)

SN1/M1/HPAC



Size matters

**Provides ability to reduce energy consumption by a significant margin**

**MEI motors/generators are modeled to be 35% more efficient than conventional electric motors**



# Letters of support provided by NASA



May 25, 2012

Mr. John Harms  
Chief Executive Officer  
Maglev Energy, Inc.  
10550 72<sup>nd</sup> Street  
Tampa, FL 33777

Dear Mr. Harms:

We are pleased to furnish this letter on behalf of Space Florida in response to your Letter of Support request. Maglev Energy and its partners are presenting an interesting Offshore Wind Turbine Demonstration proposal, and in particular, the technologies to be demonstrated as part of the proposed project are of special interest to Space Florida and its goal of developing a clean energy hub adjacent to the Kennedy Space Center in Florida. This project meets the parameters of our EDA funded Space Coast Clean Energy Jobs Accelerator.

Space Florida looks forward to exploring the possibilities to partner with Maglev Energy and the University of Central Florida on the Offshore Wind Turbine Project, in an effort to grow the Clean Energy Hub at the Kennedy Space Center. NASA prides itself on leading the nation in energy efficiency and supports technology advancements in the production and use of renewable energy.

We believe that the successful development of this Offshore Wind Turbine Demonstration Project is much in line with our strategy for the continued growth and development clean energy technologies in Central Florida.

Sincerely,

Percy Luney  
Vice President of Education, R&D, & Workforce

SF 12-26146-01

Space Florida

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www.SpaceFlorida.gov • 8 822.730.1317 • pr 822.730.8364



National Aeronautics and Space Administration  
Kennedy Space Center  
Kennedy Space Center, FL 32899

Reply to ATR at: AA-D

May 24, 2012

Mr. John Harms  
Chief Executive Officer  
Maglev Energy, Inc  
10550 72<sup>nd</sup> Street  
Tampa, FL 33777

Dear Mr. Harms:

I am pleased to furnish this letter on behalf of the National Aeronautics and Space Administration (NASA), John F. Kennedy Space Center (KSC) Center Planning and Development Office in response to your Letter of Support request.

NASA prides itself on leading the nation in energy efficiency and environmental leadership based on sound business principles. Our leadership encourages us to examine and implement ways to produce and use renewable energy, conserve energy and water, and utilize environmentally friendly materials.

KSC looks forward to further investigating the possibilities to partner with Maglev Energy, Inc. and the University of Central Florida on the Offshore Wind Turbine project, in an effort to further enhance the capabilities of the natural assets at KSC.

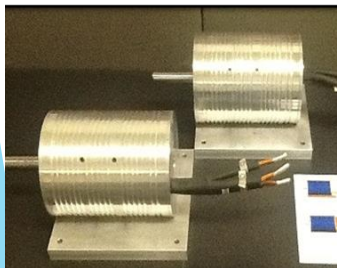
For further information on how KSC can meet your needs, please contact Robert Hubbard in our Center Planning and Development Office by phone at 321-867-5415 or by e-mail to <Robert.J.Hubbard@nasa.gov>.

Sincerely,

Joyce Riquelme  
Manager, Center Planning and Development

# Applications

- ▶ HD LRHO Alternators - low RPM, ultra-high output, 98% efficient
  - ▶ 1<sup>st</sup> article proved Forced Air / Generator viability
  - ▶ Viable for every diesel/gas generator known (450 rpm = 4 Kw, 750 rpm = 8 Kw)
- ▶ Wind Turbines - compact, magnetically suspended, high-efficiency
  - ▶ Model 12 - 6 foot vertical/horizontal, current version is viable 2.5 Kw +
- ▶ APU Auxiliary Power Unit with climate control
  - ▶ 100k miles, independent trucker's proven - saves diesel, compliance with no-idle requirements
  - ▶ Marine APU - climate control, eliminates gas/diesel air conditioning and utility electric
  - ▶ Utility Climate Control - ambulance, trucks, work vans, etc.
- ▶ Super Cart - first MEI EV, with ultra-high performance and air
  - ▶ 63 mph, 74-mile range, silent, recharge in 2.5 hrs. air/conditioning







# Intellectual Property

## Full patents:

- ▶ 1<sup>st</sup> patent - base MEI technology granted April 2008
- ▶ 2<sup>nd</sup> patent - harvesting back-EMF granted May 2012
- ▶ 3<sup>rd</sup> patent - hybrid electromagnetic coils granted May 2013
- ▶ 4<sup>th</sup> patent - generating current in a magnetic field granted October 2013
- ▶ 5<sup>th</sup> patent - high efficiency permanent magnet machine granted September 2014 (SN1 M1+)
- ▶ 6<sup>th</sup> patent - vertical wind turbine granted May 2015
- ▶ 7<sup>th</sup> patent - high speed high efficiency permanent magnet machine granted February 2018

## Pending patents:

- ▶ 8<sup>th</sup> patent now pending for new SN1 - HPAC motor/alternator technology
- ▶ 9<sup>th</sup> patent in definition for wind turbine airfoil enhancements

International patents filed for SN1, HPAC-series technology

## Trademarks:

- ▶ “The Power of Attraction” and “SilentNight”

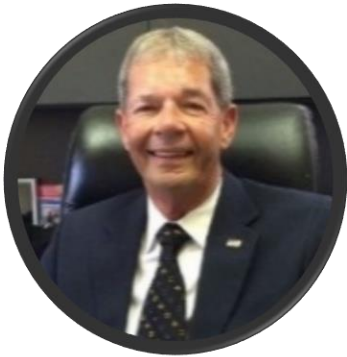
## In construction:

- ▶ Copyright for software specialties

The Power of Attraction™



# MEI Management



**Jon Harms, Executive Vice-President/CTO, Director**

Jon has over 25 years of experience in all areas of Information Technology specializing in systems, telecommunications, and international resource integration. Vertical expertise includes: finance, manufacturing, security, transportation, and defense with developed prototypes. All MEI patents bear Jon's name.



**Jay Archibald, Vice-President OPS, Board Chairman, Director**

Jay has approximately 25 years of computer systems management for major corporations in the Finance industry. Super-computing and fault-tolerant disaster recovery data-center construction, staffing, business continuity, and performance analytics are his specialties. Jay formerly managed Financial Systems as a senior technical executive at Fidelity. Original Board member, first investor.

# MEI Board and Advisory Members

## **Mauricio Mier:**

Mauricio graduated from MIT with a MS in Electrical Engineering and Computer Science. He led a technology and business management team for a major computer manufacturer for Latin America. Mauricio is an expert in enterprise technology leadership and has supported MagLev since 2006. He currently leads sales and marketing for a significant computer financial software manufacturer. Board member since 2007.

## **George Kallas:**

George is a sales consultant for a Nationwide Company that provides solutions that help persons with disabilities maintain their freedom and independence. Is a President Club Member for outstanding sales. He has over 35 years of professional sales and solution solving experience. Managed a Retail Clothing store with 3 locations, 2 in Illinois and 1 in Florida. General Sales Manager for a large Automotive group. George is also an elected official with the Fire District and is spearheading the efforts to pass a referendum. Is a committee member and volunteer for a nationwide land conservation organization. Very active in the Knights of Columbus. Organized and chaired the fund raiser that has donated over \$200,000 to the community Ronald McDonald House.

## **Steve Boes**

Steve held Senior Account Manager at Resource 1, a Chicago based staff augmentation and consulting company with primary responsibility for the HP NonStop services business practice. Steve's extensive career started with Banks of Iowa Computer Services marketing and delivery of EFT / ATM services on Tandem platforms. At Merchants National Bank he delivered wholesale EFT banking solution. Steve served as Project Manager/Account Manager responsible for the delivery of EFT / POS services to global financial institutions via Deluxe Data Systems. Steve has been a very successful member of the Resource 1 team for over 30 years. Board member since 2013.

## **Barry Sauer**

Barry is a graduate of Northeastern University with a Bachelor of Science degree of Business Administration. While in college taking Marketing-101 he asked his father who had started a company called Relay Specialties which was a manufacturing company of time delay relays. Barry asked the question, "people name their company as who they are or what they want to become". His father responded with "let's see if we can become that". They led the company into becoming one of the largest companies in in the country specializing in relays and electro-mechanical components. Barry joined the company full time in June of 1972 and has led the company since. Most recently for the last 20 years as president and CEO.

## **Steve Sieg**

Executive Management Professional in Information Technologies and Business Systems with over 47 years' contributions in the Financial Services Sector, principally engaged in payments services for major corporations including JP Morgan/Chase, FISERV, CitiCorp, Total System Services, ITC Financial Services, Global Payments, Visa, MasterCard, AMEX and major technologies corporations to include IBM, HP, and TANDEM. Past President, ATUG, AITA, and Systems Chair for Global Platforms. Steve provided guidance, leadership and direct management in Executive Management Consulting, In-Sourcing Program Management, Product Development and Professional Services Management, Distributed Systems Management, Vendor Services Management, Marketing, Sales and Client Support for Mission Critical Service Environments with Sigma Service Level and Positive Fiscal Results. Board member since 2016.



Thank you!

For additional information, contact:

Jon Harms, Chief Technology Officer/EVP

(727) 342-7373, ext. 100

[jon@maglev-energy.com](mailto:jon@maglev-energy.com)

Jay Archibald, Chairman/Vice-President Operations

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[jay@maglev-energy.com](mailto:jay@maglev-energy.com)