

New Logo going back to “Re”



ReNEWW
H O U S E



ReNEWW
H O U S E

SiteSage Portal

The Antlers K...

Partners

Global Engineeri...

Habitat Goes Pla...

Home Cookin' w...

Renewable Hydr...

Solar Hydronic S...

Solar Home Heat...

Home - SAP Net...

ReNEWW

New Tab


thomasbottanari.github.io/index.html

AppsSuggested SitesImported From IENEWW HouseSparkWhirlpool


Other bookmarks

PARTNERSABOUT


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ENERGY






WATER



WASTE


545 HAYES STREET
West Lafayette



Whirlpool

PURDUE
UNIVERSITY

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ReNEWW_House@Whirlpool.com

100%

2:44 PM
4/30/2014

Mission Statement

Whirlpool Corporation, along with Purdue University, will transform an existing home near Purdue's campus into a world class research laboratory and sustainable living showcase. ReNEWW House will provide valuable insights for our homebuilder partners and customers on technologies that enable sustainable living. We will leverage the world class facilities and collaborate with Purdue researchers to accelerate the development of the next generation of ultra-high efficiency appliances that increase core performance while lowering their impact on the environment and cost to operate.

Mission Statement Elements

What do we do? Retrofit an existing home to be net zero energy, water & waste.

How do we do it? Upgrade home using advanced products from our sponsors and leverage world class facilities at personnel at Purdue to accelerate the development of the next generation of ultra-low resource using appliances.

Whom do we do it for? The company, homebuilder partners, homeowners/customers, the environment/our future.

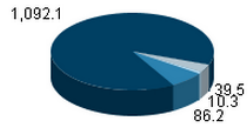
What value are we bringing? Education on resource efficiency, and continued improvement in the efficiency of our products.

ENERGY

Fuel Sources for Electric Power Generation in Indiana in 2011

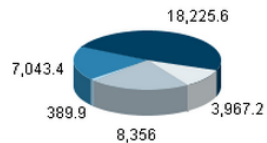
(trillion Btu)

Coal Natural Gas
Petroleum Renewables



Fuel Sources for Electric Power Generation in the United States in 2011

Coal Natural Gas
Petroleum Nuclear
Renewables



The United States has over 130M housing units, many of which are more than 40 years old. Many of these housing units were constructed with little regard for energy efficiency. The residential sector alone uses 22% of the entire US energy use with a majority coming from fossil fuel sources. Fossil fuel dependency contributes to global challenges such as climate change. ReNEWW House will require less energy and generate even more than it uses exporting the excess to the grid.

MOTIVATION: WE FACE SIGNIFICANT CHALLENGES



7+ Billion humans on Earth = increasing constraints on food, energy & water supplies.



5.5 MMton CO₂/y from fossil fuel consumption (2nd in World).



Aging US housing stock is inefficient and dependent on inadequate infrastructure.

400 ppm CO₂ recorded for the 1st time (350 considered an acceptable target).

Buildings account for 41% of energy use in the United States (75% from fossil fuels).

Average American family spends an average \$2340 for home energy.

Nine of the warmest years on record have occurred since 2000.

Residential sector accounts for 22% of US energy use (100M+ homes).

That represents 6.2% of the average yearly household income.

WATER



Less than 1% of the Earth's water is readily available for use and an average American uses 100 gallons per day. Water prices across the country continue to climb significantly, even exceeding monthly energy prices in the near future. ReNEWW House will stretch water use through new innovative products while capturing, storing, and treating water outside and within the home.

WASTE



Americans generate about 4 pounds of waste per person each day. A significant portion of this, is food waste. At least a third of all food produced in the US is lost, wasting significant amounts of water and energy that went into making and distributing the food. ReNEWW House will pilot various technologies that close the loop on these waste streams – turning them from a burden to a source of value.

a special thank you to our
PARTNERS



Honeywell

Can we add something of the effect: More to come....?

About Section

About Whirlpool Sustainability



Whirlpool Corporation is committed to responsibly leading the global home appliance industry – delivering superior value for our stakeholders while setting the standard for sustainability.

By creating products that perform better while significantly lowering operating costs and environmental impacts, Whirlpool Corporation is able to give consumers more choice, not compromises.

At Whirlpool, we are passionate about improving the quality of life for our consumers while minimizing our impact on the environment. And we are combining the power of innovation with our environmental commitment to create solutions that delight consumers – today and tomorrow.

Whirlpool Moments that Matter: <https://www.youtube.com/watch?v=L0arBBTzKek>

Whirlpool Sustainability: <http://vimeo.com/65311959>

About Section

About WERLD

With its first class in 1989, the WERLD Program has been a premier engineering rotational training program that has been developing world-class engineering leaders through challenging assignments, global team projects, integrated training and development, and formal coaching and mentoring programs. WERLD participants gain a thorough introduction to engineering and technology from a global product perspective, through the opportunity to work in several functional assignments including: Product Development, Research & Development, Systems Engineering, Product Testing & Approval and Lab Operations, Engineering Capability, Consumer Science, Product Quality and Manufacturing. WERLD Engineers go through four 6-month rotations which are selected based on their educational background & experiences, career interests, and personal development goals. The rotations give them the opportunity to explore different areas of engineering, different stages of product development or several different product categories that Whirlpool has to offer. After the first 2 years, WERLD engineers have the opportunity for continuing education to pursue a technical Masters degree at Purdue University.

<http://us.whirlpoolcareers.com/STUDENTS/Whirlpool-Engineering-Rotational-Leadership.aspx>

About Section

About Whirlpool

Whirlpool Corporation is the world's leading global manufacturer and marketer of major home appliances, with annual sales of approximately \$19 billion in 2013, 69,000 employees and 59 manufacturing and technology research centers around the world. The company markets Whirlpool, Maytag, KitchenAid, Jenn-Air, Amana, Brastemp, Consul, Bauknecht and other major brand names. Additional information about the company can be found at <http://www.whirlpoolcorp.com>.