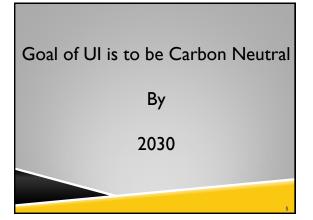
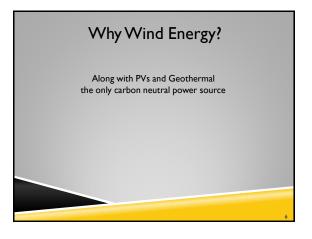
Assessing the Wind Energy Potential on the University of Idaho Campus Kelly Moore

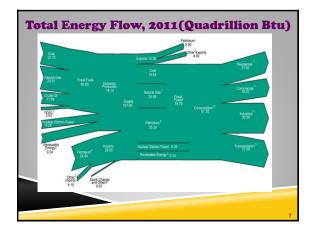


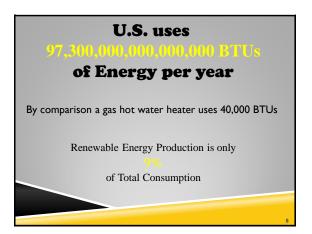












# **Project Advisors**

## **Department of Mechanical Engineering**

John C. Crepeau, Ph.D, P.E. Dept. Chair Tao Xing, Ph.D. Project advisor

## **Department of Architecture**

Bruce Haglund Professor Phillip G. Mead Associate Professor

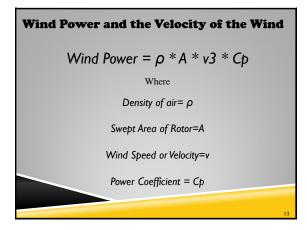
#### **U of I Facilities**

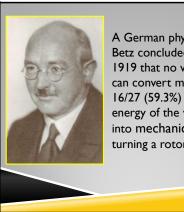
Eugene P. Gussenhoven, MCE , Director of Utilities and Engineering Brian Johnson: Asst.Vice President – Facilities Mike Holthaus: Facilities



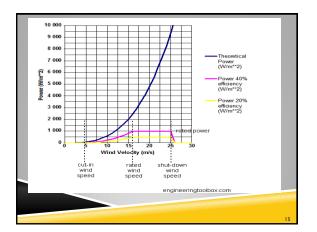


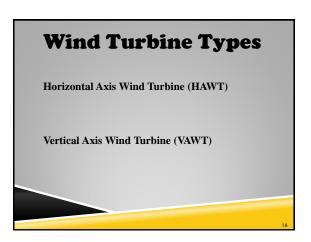






A German physicist Albert Betz concluded in 1919 that no wind turbine can convert more than 16/27 (59.3%) of the kinetic energy of the wind into mechanical energy turning a rotor.













A wind-driven electricity generator without moving mechanical parts is adorning the lawn of Delft University of Technology, The Netherlands. The Electrostatic Wind-Energy Converter (EWICON) could unobtrusively function in an urban landscape.

## U of I Wind Assessment Outcomes

- What is the wind potential on the U of I Campus
- What Turbines might be deployed
- What building on Campus could Turbines be deployed on
- What would the potential Energy Savings be

# UI Sustainability Center

Every year UISC awards \$9,000 in grants to fund student-led projects that advance campus sustainability. Grants are available to any U-Idaho undergraduate, graduate, or law student. Requests for Student-Led Grants are posted in August

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