

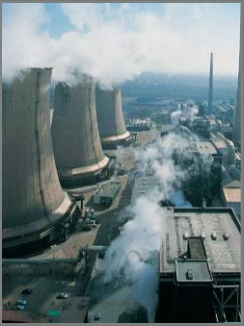
UH Energy



Consumer Energy Alliance Houston
October 26, 2010

Marshall Schott, Ph.D.
Asst. Vice President, Outreach
Co-Chair, GHP EC WF

UH Energy

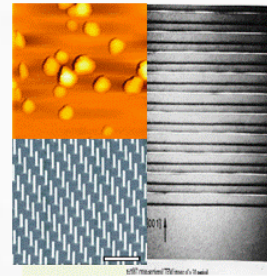


- **University of Houston** – **Building an Energy University**
 - Advancing **Energy Research & Development**
 - Advancing **Energy Education** and Outreach
 - Advancing **Technology Transfer**
 - **Spin-off Businesses**
 - **Energy Research Park**

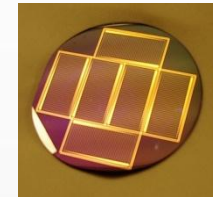
UH Energy

Alternative and Renewable Energy Research

- Solar Cell R&D



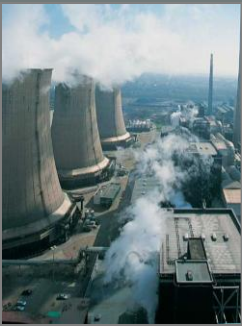
Nanostructured
Solar Cells



- Wind Energy R&D



Blade Testing



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New Horizons in Traditional Energy

- Subsurface Exploration



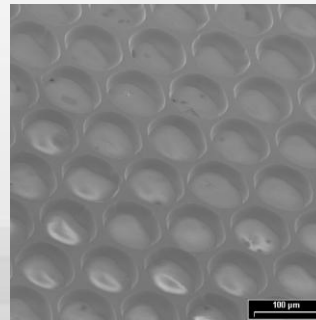
3D Seismic Imaging

- Clean Fuels and Power Generation

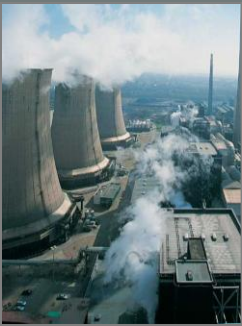


Clean Diesel

- Fuel Cell



Thin Film Fuel Cell

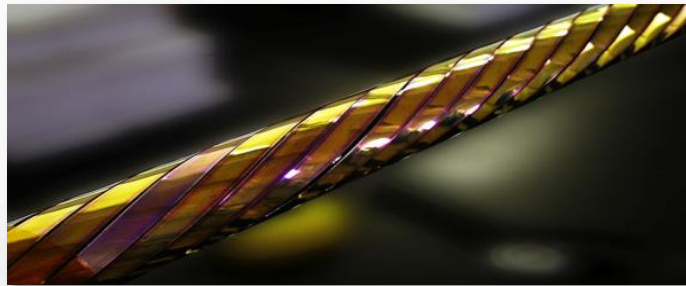


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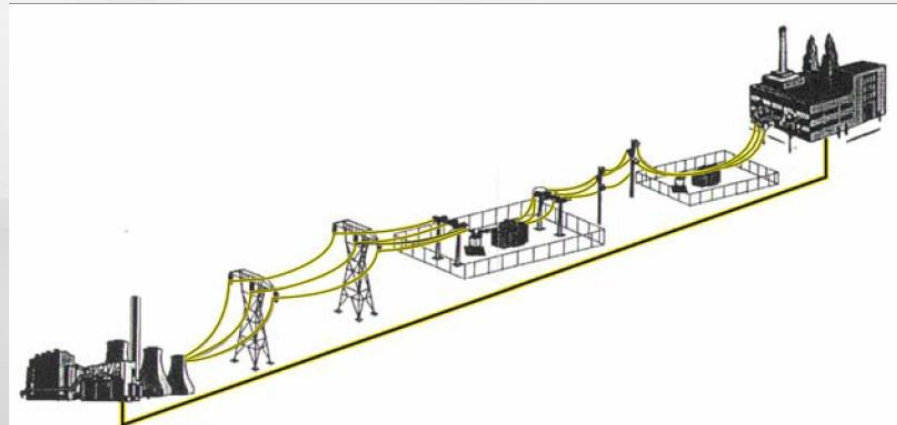


Energy Integration – Smart Grid

- High Temperature Superconducting Transmission Cable

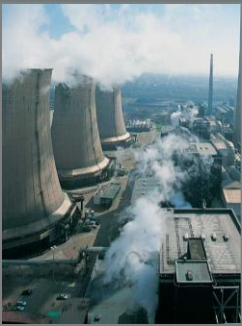


2nd Generation HTS Wire



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Energy Conservation and Sustainability



University of Houston
Gerald D. Hines College of Architecture
Green Building Components

UNIVERSITY of HOUSTON

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THE INSTITUTE FOR MULTI-DIMENSIONAL AIR QUALITY STUDIES



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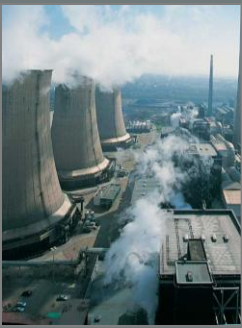
Energy Management and Policy



GLOBAL
ENERGY
MANAGEMENT
INSTITUTE

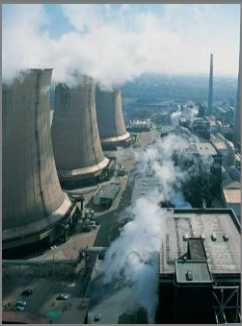


C E N T E R F O R
PUBLIC HISTORY



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UH Energy Research Park



- House a **manufacturing incubator**
- House funded **energy research projects**
- House **energy education** programs
- **Economic Development**
 - **Mixed use space**
 - **Light manufacturing and assembly**
 - **Small and start-up businesses**
 - Pool of **educated** but **entrepreneurial** labor



Leading Energy Workforce Solutions



GHP Energy Collaborative
Higher Education Partners
Non-Profit Organizations

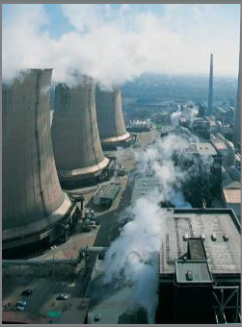
University of Houston

Academic Degrees

Technical Education Programs
At Community Colleges

STEM Teacher Education
teachHouston
HCASE

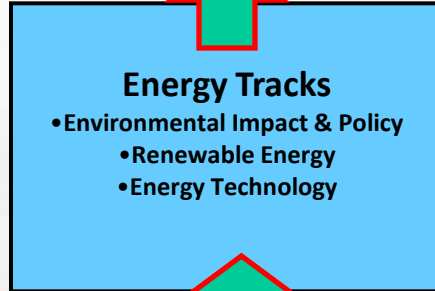
Redefining Energy Education: Framework for Curriculum Innovation



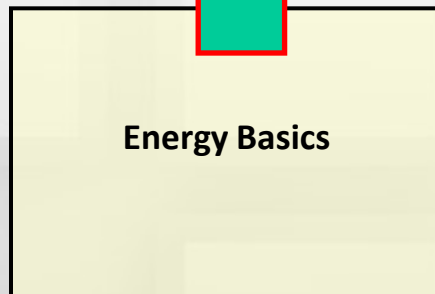
Innovation



Collaboration with Industry to Build Best-in-Class Curriculum

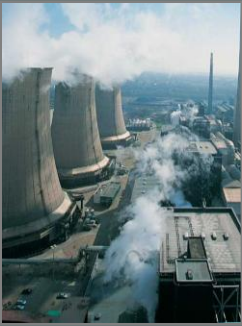


Interdisciplinary Energy Tracks Leading to High Impact Majors



Energy Courses Open to All Students

GHP Energy Collaborative Workforce Committee



- **Network** of over 125 leaders from business, education and non-profit groups

MISSION: Engage industry, education, economic development and community partners to work together to meet current and future energy workforce needs

VISION: Become the recognized global leader in energy talent development

- **Initial focus** on programs that support STEM education in K-12
 - Science and Engineering Fair of Houston
 - Houston: Energy City of the Future
 - EnergyVenture Camps
 - GeoForce
 - IPAA Academies