Mapping My Pre-Search: Nuclear Energy Sustainability

Nuclear Energy: the use of 'Exothermic nuclear processes' to generate useful heat and electricity in India

Search Terms

- "nuclear energy"
- "renewable energy"
- "energy efficiency"
- "clean energy"
- "sustainable energy"
- "nuclear fission"
- "nuclear fusion"
- "environmental footprint"

Core Science in Context

- Nuclear reactions
- Nuclear fission
- Atomic bombs
- Nuclear energy
- Radioactivity
- Nuclear reactors
- Nuclear power

Galileo Databases

- Art cycles
- Radioisotopes
- Uranium 238
- Deuterium
- Nuclear fission
- Disposal problems
- Inorganic chemical manufacturing
- Fossil fuels
- Energy plants
- Engineering
- Nuclear energy processes
- Dismantling

TED Talks

- Nuclear fusion
- Nuclear fusion problems
- Energy efficiency
- Nuclear power
- Nuclear reactor
Ariel Liu

Pre-search strategy: Waste Reduction

Google

Search of A All GALEO databases

Economic aspects, prevent food (food loss, composting) loss
Chemical reduction
Greenhouse gases, emissions
Energy conservation

TED Talk videos
Community
Food waste and otherwise
Seas of plastic

EBSCO

Gale Opposing Viewpoints
Technology
Solid waste volume reduction

Economic problems
Toxics use, reduction, legislation, Environment

Productivity
Greenhouse gas
Environment of community
RESEARCHING: Solar Energy

Search Terms
- solar energy
- harnessing the sun's energy
- clean energy
- solar power plants
- pros & cons of s.e.
- cell: III-V cell

EBSCO
- photovoltaics (PV)
  - satellites
- pricing
- solar panels
- clean energy
- solar wars
- lowering prices

CAMEO Opposing Viewpoints
- power plants
- biomass
- solar houses
- heat buildings
- solar shield
- energy demands

GOOGLE
- sun energy
- pollution
- concentrating solar power
- powering buildings
- third world countries
- solar dishes
- economic benefits
- new & more efficient solar power
  - efficiency
- Sun Shot Initiative

CAMEO Science in Context
- green house gases
- metals used
- reflection
- photoelectric effect
Sustainability of Paper Currency

**TEDx**
- **Trust**
  - Collaborative consumption
  - Kickstarter, Airbnb, Etsy

- **Trust in Traditional**
  - Trust each other, not govt/leaders

- **Tide**
  - Tide is a currency for drugs, legal same was "liquid gold"

- **Nike**
  - Bid your brand

- **Loyalty**
  - Air miles
  - 20% Starbucks, Starbucks (
  - Micro economy

- **Bitcoin**
  - Wild fluctuations
  - Accepted as payment
  - Confidence
  - Technology

- **Apps**
  - Why now? Pop apps currency translate to need $?

- **Equal Dollars**
  - Traded within the economy
  - Philadelphia

- **Google**
  - Digital currency
    - Everyone online, uses internet
    - + communication occurs online
  - Easy to transport, BLC digital

- **Opposing Viewpoints**
  - Bitcoin
    - Digital currency, but property
    - Value
    - Fluctuations: six value

  - **Lincoin**
  - Dollars

  - **Global Currencies**
    - China calls BLC dollar too strong

  - **Social Media**
    - YouTube
    - Social media reward
    - Discount/special privilege
Farm to Table Movement

### Gale opposing viewpoints:
- Farmers & city dwellers alliance
- Pesticide use
- Baby Boomers participation
- Farms around the world

### Galileo:
- Risk-based
- Losing money
- More expensive

### Google:
- Serenbe - 2.5 acre
  - Aspect of community
  - Physical health
  - Can include performances, films, lectures, readings, visiting w/ friends, fostering community
  - Based on hamlets: English villages
  - Use solar, net, & Zero Nomes
  - Preserve 70% of land as green space

### Search terms:
- Farm to table
- Fresh food diet
- Organic farms
- Organic chemistry
- Pesticide
- Farm to fork
- Farm to market

### Third plate/
- Dan Barber
  - Emmer wheat
  - Creating a menu for the farm
  - Farm -> table
  - Not table -> farm
  - Relationship between farm and producers
  - Genetic modification

### Farm -> table
- Farm -> fork
- Farm -> market
Search Terms
- "artificial leaf"
- "biological leaf"
- "silk leaf"
- "man-made leaf"
- "fake leaf"
- "leaf in space"

Google

"Silk leaf" breathes life into space missions

Artificial leaf is here again, (artificial leaf outperforms clean fuel alternatives)

Sustainable cells for hydrogen for fuel

Molecular snapshot of Oxygen formation in photosynthesis

Gale Science in Context

Sweet Search "man-made leaf"

Google Student Resources in Context

"Silk leaf" - artificial leaf may make air breathable on space flights
Textiles

- Search terms:
  - "Textiles"
  - "Types of textiles"
  - "Textile techniques"
  - "Textile standards"
  - "Sustainable textiles"

- Yale Science in Context

- Types:
  - Tapestries, woven rugs, embroidery, lace

- Textile techniques:
  - Spinning, weaving, finishing

- Opposing Viewpoints:
  - Clean green movement
  - Recycled duds, bamboo, organic materials
  - Sustainable conventional textiles
  - Teaching museum for Fiber Arts & Textiles

- Google:
  - Raw materials extraction, textile production, added chemistry, end-of-life
  - Conventional textile production (most prevalent)

- Sweet Search:
  - Home furnishing fabrics, lace, embroidery, quilts, shawls
  - Textile swatches
  - Spinning together fibers
  - Hand woven

- Chemical pesticides & fertilizers
  - Fiber arts

- Ages:
  - B.C.
  - Century

- Fibers & crafts used in textiles:
  - Cotton: India
  - Silk: China
  - Linen & wool (Egypt)

- Other:
  - Rope, netting, matting & cloth