



—— UTAH OFFICE OF ——  
**ENERGY DEVELOPMENT**

# APA Spring Conference

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*The views and opinions expressed are solely my own and do not express the views or opinions of OED. This presentation is not to be construed as an endorsement of any product or company nor as the adoption or promulgation of any guidelines, standards, or recommendations.*



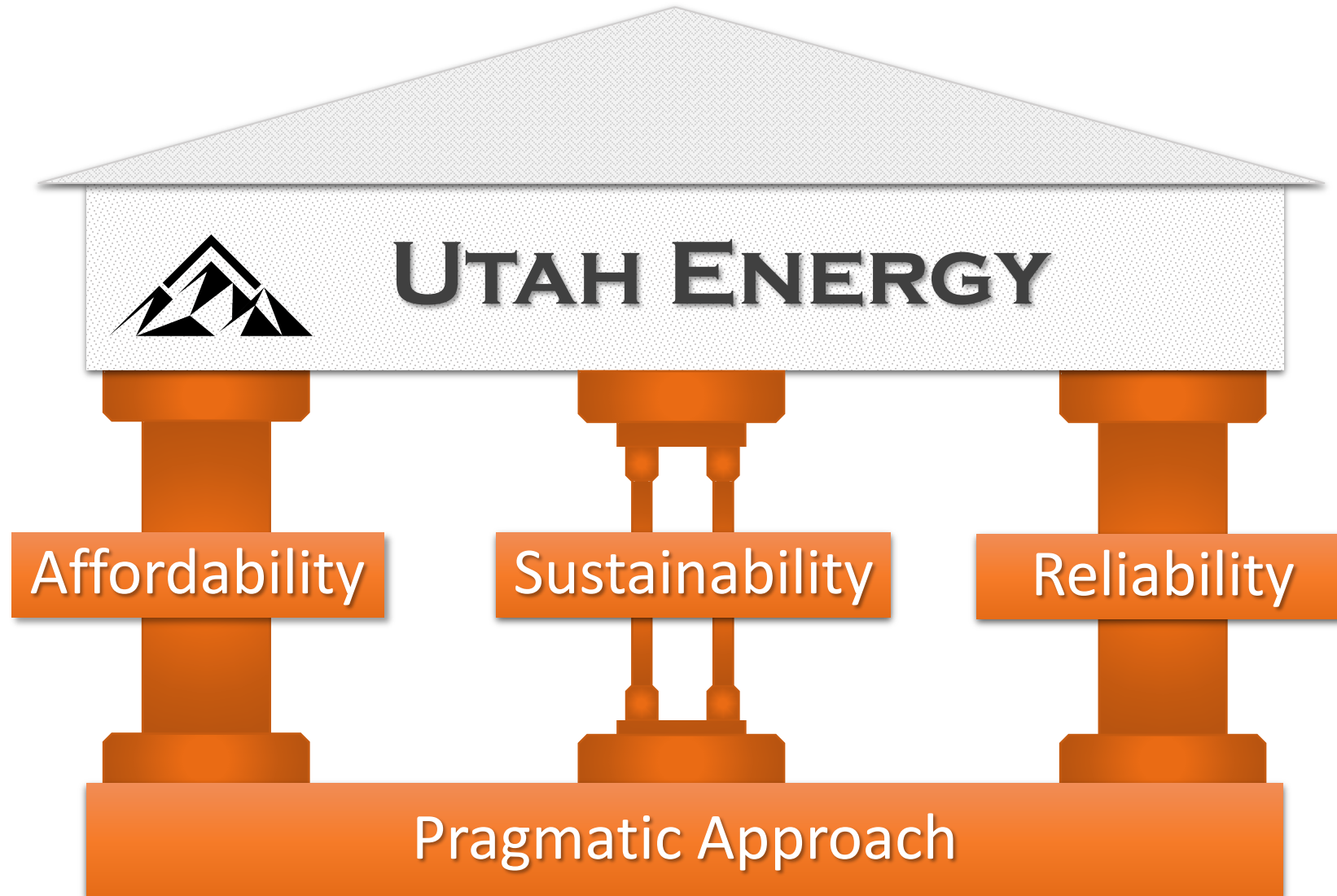
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**ENERGY DEVELOPMENT**

The Utah Office of Energy Development (OED) advances the Governor's energy vision and implements the state energy policy. We work to enhance Utah's energy infrastructure, technology, and workforce to ensure our energy is affordable, reliable, and Sustainable for Utah households and businesses.

- Utah Code 79-6-401

# Utah Code 79-6-301 State Energy Policy

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# The Power of Energy

Power is the **rate** at which work is done  
Energy is the capacity to do work





**One barrel of oil does the work a strong human can do in five years.**



The Power of Energy =  
500 full-time employees  
Per capita





# The Power of Energy



## Powers Quality of Life

- Health/Food Production & Access
- Comfort/Convenience
- Education
- Social Welfare

## Powers Advancement

- Science, Technology, Medicine
- Powering Connecting / Facilitation
- As environment mitigation

## Powers Development

- Economy
  - Direct
  - Indirect
- As an Enabler

## Powers Security

- Universal Currency
- Foreign Policy
- Military



# The Power of Energy “Policy”







# PONY EXPRESS

St. JOSEPH, MISSOURI to CALIFORNIA  
in 10 days or less.

➔ **WANTED** ➔

**YOUNG, SKINNY, WIRY FELLOWS**  
not over eighteen. Must be expert  
riders, willing to risk death daily.

**Orphans preferred.**  
**Wages \$25 per week.**

APPLY, **PONY EXPRESS STABLES**  
St. JOSEPH, MISSOURI



**16M** shipments delivered each day.

**\$22B**

Through its business operations, FedEx created \$22 billion in economic activity outside the corporation.

**555,000**

Direct Employees

**16.5M** Jobs directly supported

Within the FedEx supply chain, the company's 360,000 direct suppliers supported 16.5 million jobs generating an estimated combined revenue of \$700 billion.



**FedEx connects a vast majority of global GDP**

# Maslow's Hierarchy of Needs

## Self-Actualization

Achieving ones potential

## Esteem

Respect, status, Achievement

## Belonging

Friendship, family, connection

## Safety

Personal Security, Income, Health

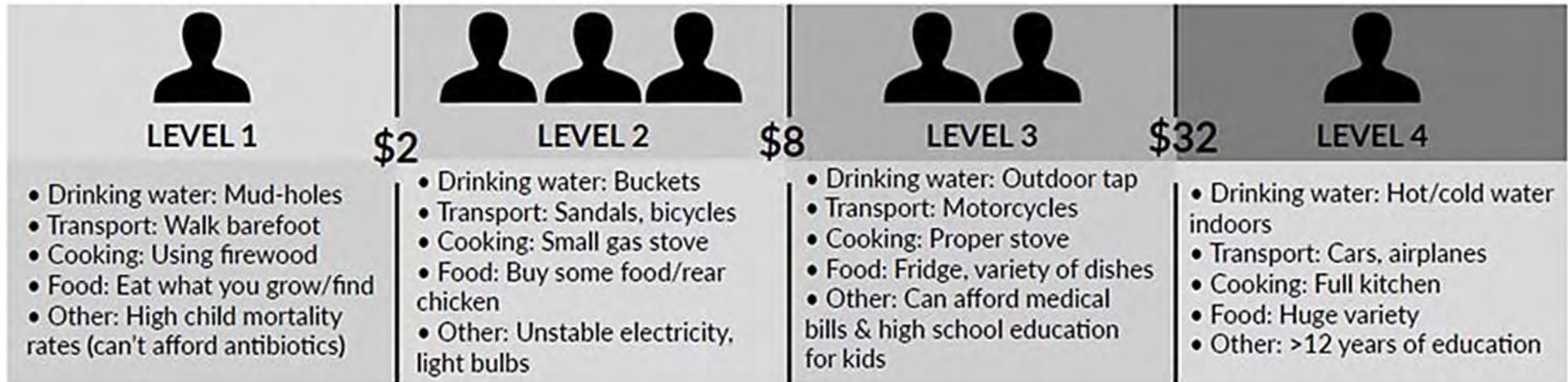
## Physiological


Basic needs (water, food, shelter, warmth, etc.)



# Perspective

## World Population & Income levels as of 2017



 = 1 bil people

Income: per person per day, adjusted for price differences

Source: Gapminder

# Drinking Water

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Level 1



Level 2



Level 3



Level 4



# Transportation

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Level 1



Level 2



Level 3



Level 4



# Cooking

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Level 1



Level 2



Level 3



Level 4







# Thank you!



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