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LONDON (Reuters) - The world is closer to a peak in oil supply than international energy Agency estimates admit, UK newspaper The cuardian reported in US intelday edition, oting an unidentified "whistlebiower" at the IFA.

The IEA, which advises 28 industrialized countries on energy policy, is scheduled to release its World Energy Outlook on Tuesday, II 2008 Outlook Forecasts world oil supply will rise to 106 million barrels per day in 2030.

"Many inside the organization believe that maintaining oil supplies at even 90 million to 95 million barrels a day would be impossible but there are fears that panic could spread on the financial markets if the figures were brought down further," the Guardian quoted the IEA source as saying.

# A quick summary of the oil situation

- 1. SUPPLY CONSTRAINTS
- 2. DEMAND GROWTH
- 3. OVERDEPENDENCE
- 4. NO GOOD SUBSTITUTES







2. DEMAND GROWTH: The West keeps growing, and the East keeps modernizing





| 4. NO GOOD | SUBSTITU | TES  |                          |
|------------|----------|--|--------------------------|
|            |          | <i>ing</i> of compa<br><u>ntity</u> ready to | arable<br>o replace oil. |
| BIOFUELS   | COAL     | NUCLEAR                                      | HYDROGEN                 |
|            |          |  |                          |
|            |          |  |                          |





#### Why government action?

Peaking of World Oil Production: Impacts, Mitigation and Risk Management Prepared for the U.S. Department of Energy by Robert Hirsch, SAIC, et al, 2005



- "Timely, aggressive mitigation ... "
- · At least "a decade of intense, expensive effort"
- Intervention by governments necessary because the economic & social implications "would otherwise be chaotic"

#### Why should we deal with peak oil locally? 1. Price volatility of goods High price of asphalt puts t takes more green to fill grocery bags brakes on paving projects 29.2% +8.4% +13.1% 1 H -State of the local division of the local div Sand states -THE R. P.





# Why should we deal with peak oil locally?

## 3. Long-term economic shifts

- How will the global economy adjust? (global trade flows)
- How will this impact regional and local economies? (relative advantage; provisioning systems)





## How can cities...

- set meaningful budgets
  make long-range land use and transportation plans
  serve residents and the local busineer according to the local
- business community

...with such uncertainty surrounding the most important material to our global, regional and local economies?



THIM F









| Peak Oil Task Force Transportation & Land Use Subgroup<br>Meeting #2 Notes – Freight and Fuel<br>24 August 2006 |  |  |  |
|---|--|--|--|
|   |  |  |  |
| Overview  | Basic data was provided by the Port of Portland, PDOT, and ODOT about Oregon<br>and Portland fuel consumption by transportation mode. Discussions focused on fuel<br>control fill, piled constraints, even one fabrics, policial influences, regulatory<br>control to the policy basic over the fabric policial influences, regulatory<br>control to the policy basic over the fabric policial influences, regulatory<br>control to the policy basic over the fabric policial influences. The<br>following basic policy basic policy<br>transport to the state on the policy<br>transport to the policy basic policy<br>of the policy basic policy<br>for the polic |  |  |
| 23  | Comes in by pipeline from Washington State as well as by barge from the Alaskan<br>fields and overskas supplies.<br>There are no oil on mahral gas supplies in Oregon. Fuel is 100% imported<br>There are no perforium references in Oregon. Tom of only a few States in this position.<br>It is important to member that Oregon is at the very end of the supply posities and is  |  |  |





- 4. Land use and transportation connection: Support land use patterns that reduce transportation needs...
- 5, 6. Transportation infrastructure and choices: Design infrastructure to promote transportation options and facilitate efficient movement of freight...



 Energy-efficient buildings: Expand building energy-efficiency programs and incentives for all new and existing structures.

Preserve farmland and expand local food production and

The Green Economy: Identify and promote sustainable

Farmland and food:

business opportunities.

processing.

8.

9.



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The post carbon city is a city on a path of <u>resilience</u> for a world of energy & climate uncertainty.



**Resilience**. The capacity of a system to absorb disturbance and reorganize while undergoing change, so as to retain essentially the same function, structure, identity and feedbacks.





Accept change Adaptive management. "How do we build for this?" We re-learn.



Identify + reduce vulnerabilities Diversity means choices. Redundancy. Avoid "stranded infrastructure"



Use resources wisely "If you're going to do it, do it right." Local economic multiplier.



Invest in the people Build capacity of communities to make decisions. Decentralize some decisions.









































- Inspire communication, share resources, and take action to prepare.
- An emergency response plan: Energy Annex in the City of Portland Basic Emergency Operations Plan.
- November 2011 Table Top Exercise; March 2012 City Council with our LEAP report.

· Check out our web pages: http://www.portlandonline.com/oem/leap (ela Portland Bureau of Emergency Management







## State of Oregon Fuel Allocation Program

Priority Fuel Users

•Tier I – Emergency Services Sector

Law enforcement, fire services, medical services (ambulances, air transport, hospitals)

•Tier 2 - Essential Services Sector

Energy production, transportation (highways, roads, bridges), sanitation, public works (sewer, water), public transit, agriculture production and distribution, telecommunica

•Tier 3 - Community Hardship Sector

City, county, other sectors as appropriate

Portland Bureau of Emergency I



