

TCLocal Research Topics (2006.05.20)

Key: The heads in *bold italics* are upper-level “subjects” and those in roman are lower-level “topics.” The library portion of the TCLocal site (scheduled to go online by the beginning of June) is organized by upper level subjects only, the reasoning being that relevant data will likely apply across all the topics within that subject. The document portion of the site will be organized by both subjects and topics so that write access by the topic can be assigned to individual contributors. Names in *italics* following some topics indicate TCLocal contributors who have committed to research and analysis of those topics.

Basic assumption: Global oil and natural gas production will peak sometime in the next several decades, probably in the next ten years.

Scope: The decade following the peak of production. Note that this puts the focus on the economic consequences of steeply rising fuel costs.

Participation: Persons wishing to take ownership of a particular topic not already assigned should contact the TCLocal editor, Jon Bosak (bosak@ibiblio.org).

People transportation

Public transportation (buses) — *Simon St.Laurent*
Emergency services — *Simon St.Laurent*
School transportation
Transportation by water (ferries, etc.)

Freight transportation

Local trucking
Rail transport
Barge transport

Transportation infrastructure

Roads, bridges, rails, etc. — *Simon St.Laurent*

Health care

Definition of baseline public health care services — *Bethany Schroeder*
Distribution and delivery of health care services — *Bethany Schroeder*
Paying for basic health care services — *Bethany Schroeder*

Education

Definition of baseline public education (e.g., eighth grade)
Developing curricula to prepare for anticipated local employment
Distribution and delivery of educational services

Water at the community level

Analysis of local water outlook (including climate change)
Water catchment at the community level
Distribution of water at the community level
Water quality at the community level

Land use

Optimal balance of farming, grazing, and timber production

Urban design

Urban density and redesign for low energy use — *Josh Dolan*

Building community

Neighborhood based strategies: self-help through mutual aid — *Josh Dolan*
Building social networks through community organizations

Local agriculture (general)

Baseline human nutritional requirements expressed in terms of food products — *Meredith Graham*
Carrying capacity of current and potential county agriculture
Local soils and their regeneration (cover crops, composting, etc.)
Local subsistence farming
Local food distribution

Local agriculture as an industry

Defining the local agricultural mix
Commercial crop production
Commercial forage and silage production
Commercial tree crops — *Angelika Rumberger*
Commercial dairying
Commercial meat production
Commercial poultry production
Commercial food processing and preservation
Commercial winter food production — *Ed Mikula*
Agricultural employment
Training for agriculture
Subsidizing local agricultural redevelopment

Local hunting (seasons, licensing, training, butchering, storage)

Local aquaculture

Current status of local aquaculture — *Jen Maffett*
Lake Cayuga as a source of food — *Jen Maffett*
Local fisheries — *Jen Maffett*
Local ponds — *Jen Maffett*
Creating new supplies — *Jen Maffett*
Training for aquaculture — *Jen Maffett*

Local manufacturing

Defining the local manufacturing mix
Local manufacturing production
Local manufacturing employment
Training for local manufacturing
Subsidizing local manufacturing

Repair as a local industry

Training for re-use
Training for repair
Building a local repair industry
Subsidizing a local repair industry

Retail trade

Re-establishing the local reseller network
Distribution of retail goods
Clothing (local fashion, recycling)
Buying local

Energy production

Milliken Station/AES Cayuga — *Dave Panofsky*
Alternative energy at the county level (wind, microhydro, solar) — *Dave Panofsky*
Local biofuel production
Heating — *Marty Hiller*

Waste disposal

Garbage disposal/composting
Human waste disposal/composting
Runoff disposal/municipal water catchment
Trash disposal

Household preparation

Energy inspection

Insulation

Alternative energy for households — *Dave Panofsky*

Winter food supply and preservation for households — *Kathleen Quinn-Jacobs*

Water catchment for households

Emergency provisioning — *Kathleen Quinn-Jacobs*

Social and psychological adjustment

Risk communication & change theory: opportunity and/or crisis

Dislocation & shifting ideologies: creating paradigms that work, identifying those that don't

— *Kathleen Quinn-Jacobs*

Individual psychosocial adjustment — *Kathleen Quinn-Jacobs*

Peak oil and the family

Role of the community & local identity

The peak oil experience across the age spectrum: children, youth, middle years, the elderly

Special needs: physical, emotional and mental disabilities

Globalism in a relocalized world

Post peak leisure & recreation

The arts & cultural expression — *Jen Maffett [future work]*

Information infrastructure

Local libraries

Local radio

Local printing

Local phone service

Local web service

Schools as distribution points — *Jen Maffett [future work]*

Useful Links

SAIC report to the U.S. Department of Energy:
www.oilcrisis.com/us/NETL/OilPeaking.pdf

TCRP web site (until June 2006): ibiblio.org/tcrp

TCLocal web site (beginning June 2006): tclocal.org

TCRP (TCLocal) Project Outline: ibiblio.org/tcrp/doc/project.htm

TCLocal presentation: ibiblio.org/tcrp/pres/tcrp-intro.pdf

tcrp-news mail list

Anyone can subscribe (lists.ibiblio.org/mailman/listinfo/tcrp-news)

Read-only (subscribers cannot post to the list)

Public archive: lists.ibiblio.org/pipermail/tcrp-news

TCRP (TCLocal) editor: Jon Bosak (bosak@ibiblio.org)

Local sustainability groups: google the name or check tcswarm.org

Recommended Reading

Heinberg, Richard. *The Party's Over: Oil, War and the Fate of Industrial Societies*. New Society Publishers, 2003.

Heinberg, Richard. *Powerdown: Options and Actions for a Post-Carbon World*. New Society Publishers, 2004.

Kunstler, James Howard. *The Long Emergency: Surviving the End of the Oil Age, Climate Change, and Other Converging Catastrophes of the Twenty-first Century*. Atlantic Monthly Press, 2005.

Odum, Howard T. and Elisabeth C. *A Prosperous Way Down: Principles and Policies*. University Press of Colorado, 2001.

Simmons, Matthew R. *Twilight in the Desert: The Coming Saudi Oil Shock and the World Economy*. John Wiley & Sons, 2005.