

1 Devens Common:

- Roof run-off from all buildings goes into cistern for reuse for irrigation.
- All services within ½ mile of all residents in Devens.
- Hilton Garden composting & recycling program/waste diversion.



2 Laddawn:

- Existing building reuse (Former Army Library).
- Biodegradable plastic bag manufacturing company (waste reused as feedstock).
- All products manufactured with renewable energy.
- Employee wellness, bike share programs.
- Continued growth—22,000 sq.ft. addition.



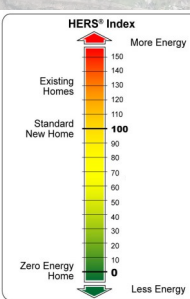
3 Transitions:

- Social Equity - 13 unit home for battered women with children.
- LEED for Homes Gold Certified (Sustainable building design and construction).
- Walking distance to local services and parks.
- Reduced parking footprint.



4 Sustainable Housing Project:

- 8—Zero-Net Energy & Positive Energy Single Family Homes (super-insulated, renewable energy, efficient HVAC, passive solar) with LID and reduced development footprint.
- Affordable workforce housing.
- 12-unit multi family sustainable housing demonstration project across the street.



5a Francis W. Parker Charter School:

- Reuse of existing building and purchase of “used” building (embodied energy).
- Student “green team”- recycled paper donations, anti-idling campaign, tiny house demo projects.
- Community garden growing local produce for school cafeteria and Loaves and Fishes food pantry.



5b Shriver Job Corps

- US Department of Labor job training program – social equity.



6 Former Moore Army Airfield:

- Ongoing bio-remediation project to remove PCE contamination using microbes and molasses injections. Microbes ingest contaminants and convert them to harmless water and vapor.
- State Police driver training.
- Raytheon electronic toll testing.



7 JP Routhier & Sons:

- Tire recycling and reuse for various engineering projects (roadway construction), agriculture (animal mats) and recreation (surfaces).
- Recognized by the US EPA for recycling and education on uses of recycled tires.



8 Devens Utility Department:

- 9+MW of solar energy generated locally (7% of total demand). 4% of wind energy produced by Saddleback Wind in Maine is purchased by Devens (~ 3% of total demand).~ 10% of Devens total power supply provided by renewable sources.
- Department administers Peak Management Program for larger demand customers. Reduces demand and peak power costs.
- Chevy Volt hybrid electric vehicle used for meter reading and customer service calls.

9 Devens Recycling:

- Recycling wood, gypsum, asphalt, concrete.
- Material exchange and reuse (chipping wood waste for biomass energy).
- Co-location and by-product exchange opportunities.
- Combined heat and power generation.
- Multi-Modal access.



10 Devens Eco-Efficiency Center

- Provides education, technical assistance, partnership opportunities to promote sustainable operating practices.
- Programs delivered \$4,000,000 savings to date.
- The Great Exchange repurposed 625,000 pounds of excess materials.
- Env. Health & Safety Roundtables.



11 Loaves and Fishes Food Pantry:

- Food pantry offering food, clothing and necessities to those in need. Partners with local businesses on food drives that benefit hundreds of local families in need.
- Fresh produce from local community garden.
- Low-Impact Landscaping—no mow zones.
- Compost food scraps to local pig farm.



12 Devens Dept. of Public Works (DPW):

- Free recycling for business & residents(3 tons/month).
- Shared equipment & vehicle maintenance for Fire, Police, and DPW's with neighboring towns.
- State of the art wash water recycling unit.

Devens Household Hazardous Collection Facility:

- Regionalized service for residents, small businesses in Devens &10 local towns.
- 800 users per year, over 48,500 lbs./year safely disposed.



LEGEND:

- Devens Boundary
- MA Town Boundaries
- Devens Roadways



13 112 Barnum Road—Nyro:

- Medical device manufacturer.
- Adaptive building reuse/daylighting for energy efficiency and employee wellness.
- LED light replacement program.



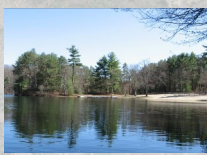
14 Former Gillette Packaging and Warehouse:

- Adaptive reuse at 18 Independence/66 Saratoga.
- SMC Global and Instrumentation Laboratory tenants.
- Quiet Logistics Internet fulfillment Center (robotic operations).
- ~3MW of solar panels on over 720,000 sq.ft. of existing roof space on both buildings combined.



15 Devens Open Space:

- 1800 acres incl. Oxbow National Wildlife Refuge, floodplain of the Nashua River (green infrastructure).
- 500 acres of active recreation fields.
- 70 acre Mirror Lake features swimming and fishing.
- 12+ miles of trails – green infrastructure – connecting development, people, & nature.
- Red Tail Golf Course—Audubon International Signature program bronze certified (sustainable resource mgmt practices).



16 Bristol-Myers Squibb:

- Corporate Sustainability – triple bottom-line.
- Parking up instead of out (env. footprint reduction).
- Adopted endangered species, trail maintenance.
- Process water recycling & re-use.
- LEED Gold& Silver green buildings.
- Green Roofs and Walls.



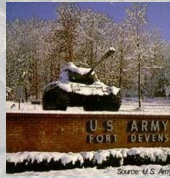
17 Apex Properties:

- Adaptive re-use (green building).
- LID (biofiltration landscape islands, grass-lined swales, rain gardens, phased parking).
- Connecting into Devens Trail system.
- Mt Wachusett Community College Job Training for BioPharma BMS.
- Incubator business space.
- Childcare/learning center.



18 US Army:

- 100mil. training and maint. facility completed – Green Building Design (LEED Silver).
- 600 Soldiers & Marines— 800 military vehicles.
- Drinking water well protection – re-designed layout to avoid impacts.
- LID incorporated where possible (some soil contamination – restrictions for infiltration).



19 Devens Village Green:

- 124 Unit mixed residential neighborhood.
- Energy efficient homes.
- 22% affordable to moderate and low-income.
- Compact, walkable streets.
- Designed for health and people first.
- Active open space/ community garden.



20 ASC:

- Electrical systems & power modules for wind turbines.
- Highly efficient underground transmission wires able to carry 574 MW of power within a 4' wide ROW (versus 200-foot above-ground transmission line).



21 US Fish and Wildlife Visitor Contact Station:

- Reused building materials.
- Green roofs.
- Recreation trail connections into Devens network.
- Universally accessible river access.
- Low-Impact Development drainage design.
- Pervious pavement.



22 Eglomisé Designs:

- Zero Waste Firm.
- Donations of all reusable materials to businesses and day care facilities.
- Toxic Use Reduction (lead).
- Adaptive building reuse.
- Repurpose packing materials from other companies.



23 Maxant Honey Processing Equipment:

- Honey processing/extraction equipment mfg.
- Local family business producing >2,000 machines/yr.
- Apiary—on-site honey production.
- Local honey retail sales.



24 Little Leaf Farms:

- 210,000 sq.ft. hydroponic greenhouse—hydroponic lettuce and leafy greens.
- Rainwater harvesting for 80% of irrigation needs.
- Process water reuse. Over 6000 LED growing lights!
- CO₂ capture and reuse. Exploring CHP.



Lancaster



DEVENS
MASSACHUSETTS



Devens
Eco-Efficiency
Center
Helping firms protect resources.

