Town of Lunenburg

Finance Committee:
Mark Erickson, Chairman
Brian Laffond, Vice-Chairman
Martha McDonald, Secretary
Scott Gile
John Male
Barbara Reynolds

17 Main Street, P.O. Box 135
Lunenburg, MA 01462-0135
978.582.4139
FAX 978.582.4148

Lunenburg Finance Committee
Minutes
October 13, 2011

Location:	Town Hall
Present:	Mark Erickson, Scott Gile, Brian Laffond, John Male
Absent:	Barbara Reynolds, Martha McDonald
Also Present:	Kerry Speidel

1) Meeting called to order by the Chairman at 7:02 PM
2) Review Green Energy Task Force (GETF)– Guests David Blatt, Chairman and John Londa, Advisor, explained that the GETF was established in 2009 to review Lunenburg's Green Community Status for the State. (see Handouts)
   - John Londa discussed 4 projects that they have worked on:
     1. A Federal grant for $150,000 has paid for a Solar Array at Turkey Hill Middle School. The Town will own the array after 15 years and it has an expected life of 25 years. For the first 15 years, the savings should be about $10,000 per year. After that the savings will increase substantially.
     2. Installation of $48,000 worth of improved lighting at TC Passios was funded largely by Unitil ($34,000). Cost to the Town was $14,000 and will result in savings of $5,500 per year.
     3. Installation of $48,000 worth of improved lighting at Turkey Hill Middle School was also funded largely by Unitil Cost to the Town was $17,000 and will result in savings of $5,000 per year.
     4. An RFP for a proposed 1.5 Megawatt Solar Farm at the Youngs Road was issued. 8 firms investigated, but only 1 responded. Details of a contract have not been finalized, but potential savings would be $112.000-$127,00 in the first year of operation and should be effective for at least 20 years.
     - There is also a private developer who is proposing a 6 Megawatt Solar Farm on 25 acres of a 108 acre parcel on Chase Road. The GETF hopes to work with him at the appropriate time.
   - David Blatt discussed the criteria for a Green Community.
     1. As-of-Right Siting for RE/AE – Lunenburg has appropriate bylaws on the books.
     2. Expedited Permitting – Lunenburg has appropriate procedures.
     3. Energy Reduction Plan –Baseline is done to support a 20% reduction.
     4. Fuel-Efficient Vehicles – Lunenburg needs to adopt guidelines.
     5. Minimize Life-Cycle Costs – (Stretch Code) will require Town Meeting Approval.
     - Qualifying as a Green Community would result in a first year grant of $175,000

   This information will be presented to the BOS on November 1, 2011.
   There will be a workshop on November 17, 2011.
   This is expected to be presented at Special Town Meeting on December 5, 2011.

3) Minutes
   - Reviewed minutes from September 8, 2011 meeting; JM moves we accept minutes, BL seconds, all approved
4) Committee Reports
   - Public Safety – Scott Gile has agreed to be the new liaison.
   - Service Level Team – Mark Erickson reported that they met on September 27, 2011. Primary discussion on re-focusing on the Service Level versus budget. They will reconvene on October 25, 2011.

- School Reconfiguration Committee – Brian Laffond reported that the Committee has had an aggressive schedule of meetings. Target presentation to School Committee on November 2, 2011.

5) New Business
   - Special Town Meeting is scheduled for December 5, 2011.
   - Regional Dispatch was approved by the BOS
   - State assessments were increased by ~$70,000 from original estimates due to Choice and Charter changes.
7) Next meeting – October 27, 2011 with Pavement Management Plan presented.
8) Adjournment – JM made motion to adjourn at 9:05 pm, SG seconded, all approved

Minutes respectfully submitted by Brian Laffond

Helping Massachusetts Municipalities Create a Greener Energy Future

COMMONWEALTH OF MASSACHUSETTS

Deval L. Patrick, Governor
Timothy P. Murray, Lt. Governor
Ian A. Bowles, Secretary
Phil Giudice, Commissioner

Navigating the Green Communities Program

Seth Pickering

Southeast Regional Coordinator
Green Communities Division

Webinar

October 6, 2010

10:00 am

Massachusetts: Cleaner Energy is Part of Our Future

Priorities of the Patrick Administration:

- **Global Warming Solutions Act**
- **Green Jobs Act**
- **Green Communities Act**
  - **Energy Efficiency**
  - **Renewables Investment**
  - **Creation of the Green Communities Division within DOER**

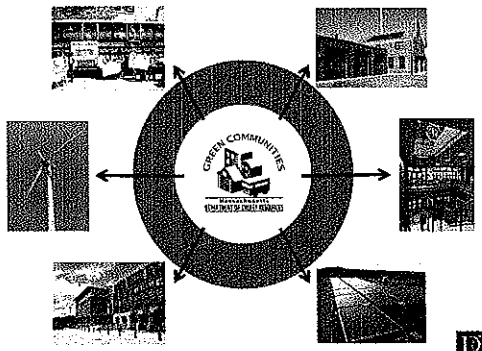
Gov. Patrick announces clean energy investments
2/25/2010

2

Helping Massachusetts Municipalities Create A Greener Energy Future

Green Communities Division

Serves as the hub for all Massachusetts cities and towns on energy matters



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Helping Massachusetts Municipalities Create A Greener Energy Future

GREEN COMMUNITIES GRANT PROGRAM

DESIGNATED 2010

Qualification Criteria

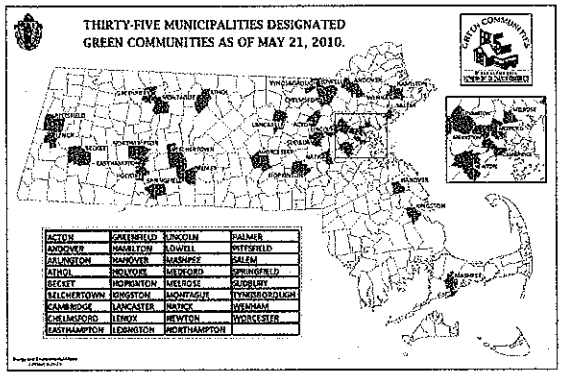
1. Adopt as-of-right siting for RE/AE generation, R&D, or manufacturing
2. Adopt expedited permitting process
3. Create an Energy Reduction Plan to reduce energy use by 20% in 5 years
4. Purchase only fuel-efficient vehicles
5. Adopt Stretch Code or minimize life cycle cost

Green Communities Act, M.G.L. Ch. 25A §10

4

Helping Massachusetts Municipalities Create A Greener Energy Future

DESIGNATED GREEN COMMUNITIES



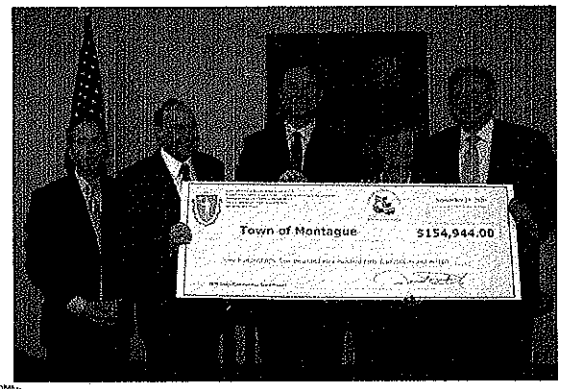
Helping Massachusetts Municipalities Create A Greener Energy Future

FY2010 GREEN COMMUNITIES

- 35 Green Communities
  - Population ranges from Becket (1,800) to Worcester (182,000)
  - Distributed across state
- Ten communities enacted as-of right zoning for renewable generation
  - Nine provide for ground mounted PV of 250 kW
  - Wenham and Kingston provide for wind of 600 kW
- 30 of 35 designees received planning assistance
- All 35 communities adopted the Stretch Code
- Due to number of designated communities and the amount of available funding, grants were allocated by a population/per capita income formula.

Helping Massachusetts Municipalities Create A Greener Energy Future

Green Community Award to Montague



Helping Massachusetts Municipalities Create A Greener Energy Future

Green Communities Designation and Grant Flowchart

Step 1
- Review Green Communities Designation Criteria Guidance
- Contact Your Green Communities Regional Coordinator

Step 2
- Discuss Green Communities Designation with Local Government
- Receive Local Approval to Apply for Green Communities Status

Step 3
- Meet the 5 Green Communities Criteria and Submit a Designation Application
- Receive Green Community Designation from DOER
- Apply for Green Community Grants

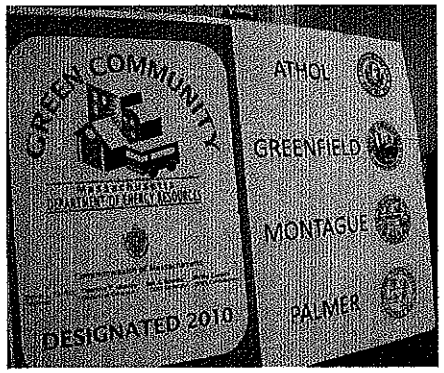
Helping Massachusetts Municipalities Create A Greener Energy Future

FY2011 DESIGNATION AND GRANT APPLICATION TIMELINE

DATE	EVENT
Friday, October 15, 2010	Deadline for designation application preliminary consultations
Friday, November 19, 2010	Deadline for designation applications
Friday, December 17, 2010	Begin accepting grant applications
Friday, January 21, 2011	Deadline for grant applications

Application available at: http://tiny.cc/GreenCToolkit

You Can Become A Green Community!



GREEN COMMUNITIES GRANT PROGRAM

GREEN COMMUNITY
Massachusetts DEPARTMENT OF ENERGY RESOURCES
Commonwealth of Massachusetts
DESIGNATED 2010

Qualification Criteria

1. **As-of-Right Siting for RE/AE**
2. Expedited Permitting
3. Energy Reduction Plan
4. Fuel-Efficient Vehicles
5. Minimize Life Cycle Costs

Green Communities Act, M.G.L. Ch. 25A §10

Criteria 1 – As-Of-Right Siting

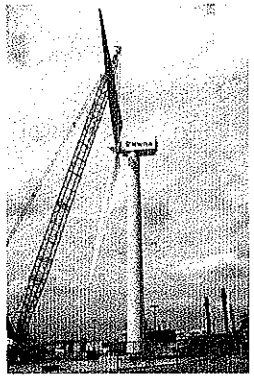
For at least one of the following:

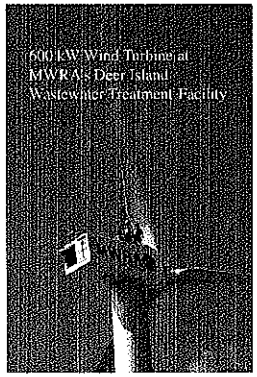
1. Renewable or Alternative Energy Generating Facilities or;
2. Renewable or Alternative Energy Research and Development (R&D) Facilities or;
3. Renewable or Alternative Energy Manufacturing Facilities in designated locations.

Criteria 1 – As-Of-Right Siting / Generation

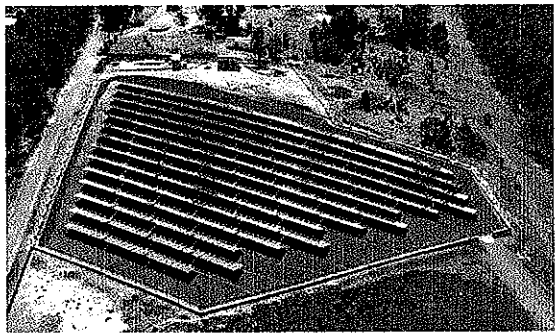
1. On-Shore Wind – A minimum of a 600 kW turbine
2. Off-Shore Wind – A minimum of a 2.5 MW turbine
3. Solar Photovoltaic – A single ground-mounted system of a minimum of 250 kW
4. Biomass CHP - A minimum of 5 MW in a stand-alone building
5. Ocean, Wave or Tidal – no minimum threshold

Criteria 1 – 600 kW Wind Turbine





Criteria 1 – As-Of Right Siting



250 kW Ground-Mounted Solar PV

Criteria 1 – As-of-Right Siting / Generation

Documentation for Criteria #1 for Generation:

1. Brief description of by-law
2. Identification of designated locations
3. Copy of bylaw or ordinance
4. Site Plan Review language so that DOER can confirm that review is non-discretionary
5. Copy of zoning map that shows area zoned

Criteria 1 – As-of-Right Siting / Mfg and R&D

Documentation for Criteria #1 for Mfg or R&D:

1. Applicable section of its zoning bylaw/ordinance
2. Copy of zoning map that shows area zoned
3. Important zoning definitions
4. Relevant section of the use table and any key that will help DOER interpret the use table
5. Any related local regulations applicable to facilities sited under the bylaw/ordinance—such as site plan review regulations—so that DOER can confirm that the related local regulations are non-discretionary; AND
6. Yield calculations, either included in the text of the letter or attached.

GREEN COMMUNITIES GRANT PROGRAM

DESIGNATED 2010

Qualification Criteria

1. As-of-Right Siting for RE/AE
2. **Expedited Permitting**
3. Energy Reduction Plan
4. Fuel-Efficient Vehicles
5. Minimize Life Cycle Costs

Green Communities Act, M.G.L. Ch. 25A §10

Criteria 2 – Expedited Permitting

12 months: date of initial application to date of final decision

1. Applies only to the proposed facilities subject to the as-of-right siting provision.
2. Can apply the MGL c 43D permitting process to these zoning districts

Criteria 2 – Expedited Permitting

Documentation for Criteria #2:

1. A letter from legal counsel:
   - Affirm no preclusions for expedited permitting
   - Include language addressing approval procedures
   - Associated timing from any applicable bylaws/ordinances or regulations.
2. A copy of the applicable map(s) showing that the areas where the expedited permitting applies coincides with the as-of-right zoned areas for Criteria 1.

OR

1. MGL c43D
   - A certified copy of their City Council or Town Meeting vote designating the as-of-right zoned parcel(s) as a Priority Development Site
   - A copy of the applicable map(s) showing the areas where the expedited permitting applies

GREEN COMMUNITIES GRANT PROGRAM

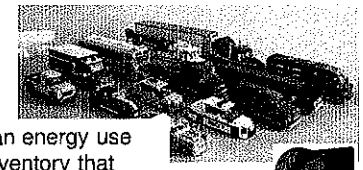
DESIGNATED 2010

Qualification Criteria

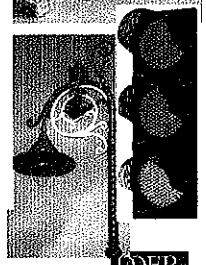
1. As-of-Right Siting for RE/AE
2. Expedited Permitting
3. **Energy Reduction Plan**
4. Fuel-Efficient Vehicles
5. Minimize Life Cycle Costs

Green Communities Act, M.G.L. Ch. 25A §10

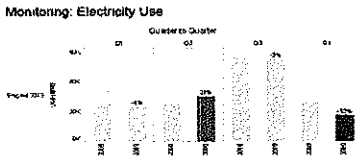
Criteria 3 – Energy Baseline & 20% Energy Reduction Plan



- Calculate an energy use baseline inventory that includes:
  - Municipal buildings, including schools
  - Vehicles
  - Street and traffic lighting (if municipally-owned)



Criteria 3 – Energy Tracking Tools

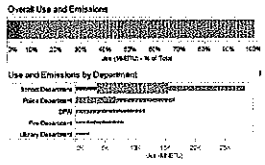


- DOER's MassEnergyInsight (www.massenergyinsight.net)
- EnergyStar Portfolio Manager
- ICLEI software
- Any other tools must be pre-approved by DOER

MassEnergyInsight

POWERING EFFICIENCY

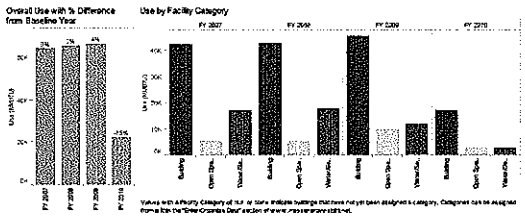
- **FREE** online tool for MA cities, towns & RSD
- 144 towns are current users
- Electronic download of utility data
- All energy costs and accounts in one place
- Standard and custom reporting
- Identify your least efficient energy users
- Track your energy savings by fuel type
- Create GHG emissions reductions reports



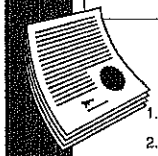
www.massenergyinsight.net

Criteria 3 – Energy Baseline & 20% Energy Reduction Plan

Create a comprehensive energy reduction plan designed to reduce energy use by 20 percent within 5 years of the baseline year.



Criteria 3 – Energy Baseline & 20% Energy Reduction Plan



Documentation for Criteria #3:

1. Inventory tool
2. Baseline year
3. Energy use inventory
4. Specific energy conservation measures to be implemented with expected energy reductions and a timeline
5. Documentation that both the general government and local school district have adopted the energy reduction plan.
   - If a regional school district is included as part of the designation, documentation that the regional school district has adopted the plan must be included.

GREEN COMMUNITIES GRANT PROGRAM

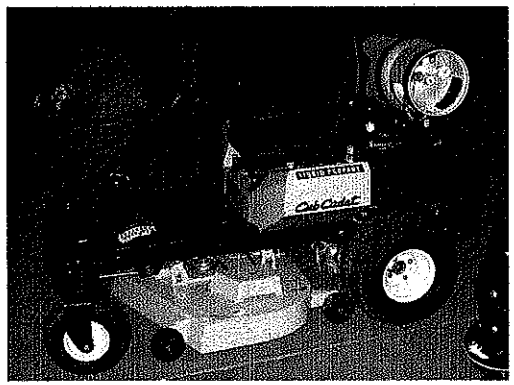
DESIGNATED 2010

Qualification Criteria

1. As-of-Right Siting for RE/AE
2. Expedited Permitting
3. Energy Reduction Plan
4. **Fuel-Efficient Vehicles**
5. Minimize Life Cycle Costs

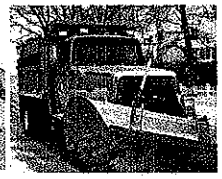
Green Communities Act, M.G.L. Ch. 25A §10

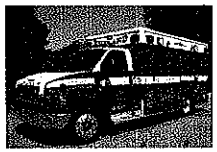
Criteria 4 – Fuel Efficient Vehicles



Criteria 4 – Fuel Efficient Vehicles

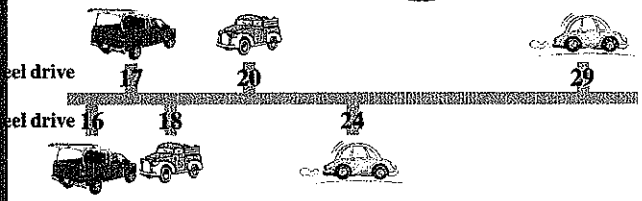
1. Purchase only fuel-efficient vehicles for municipal use whenever such vehicles are commercially available and practicable.
2. Police cruisers are exempt until commercially available.
3. Heavy-duty vehicles > 8,500 pounds are exempt.





Criteria 4 – Fuel Efficient Vehicles

Based on 2009 and 2008 EPA data, vehicles are to have a combined city and highway MPG ≥

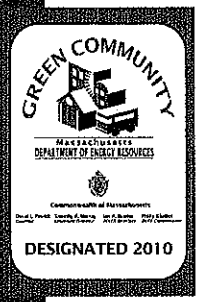


Criteria 4 – Fuel Efficient Vehicles

Documentation for Criteria #4:

1. Copy of the policy or other mechanism adopted for purchasing only fuel efficient vehicles
2. Inventory of non-exempt vehicles (model, year, estimated mpg) with plan for replacements with fuel efficient vehicles
3. Documentation that both the municipality and the local school district (not RSDs) have adopted the fuel efficient vehicle policy.

GREEN COMMUNITIES GRANT PROGRAM



Qualification Criteria

1. As-of-Right Siting for RE/AE
2. Expedited Permitting
3. Energy Reduction Plan
4. Fuel-Efficient Vehicles
5. **Minimize Life Cycle Costs**

Green Communities Act, M.G.L. Ch. 25A §10

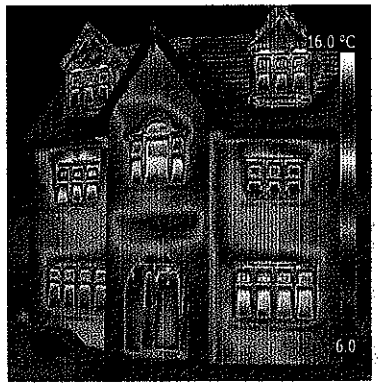
Criteria 5 – Minimize Life Cycle Costs

Require all new residential construction over 3,000 square feet and all new commercial and industrial real estate construction to minimize, to the extent feasible, the life-cycle cost of the facility by utilizing energy efficiency, water conservation and other renewable or alternative energy technologies.

The DOER recommended way for cities and towns to meet this requirement is by adopting the BBRS Stretch Code (780 CMR 120.AA) an appendix to the MA State Building Code.

- In a town, the Stretch Code must be adopted as a general bylaw by its Town Meeting.
- In a city, the Stretch Code must be adopted by the City Council, preferably by general ordinance.

Criteria 5 – Minimize Life Cycle Costs

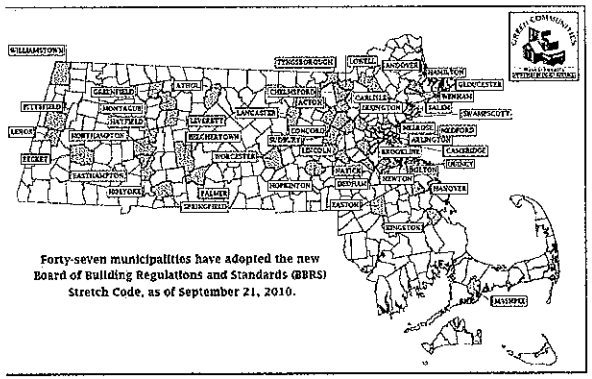


Criteria 5 – Minimize Life Cycle Costs

Documentation for Criteria #5:

- Stretch Energy Code
  - Documentation of the city council or town meeting vote adopting 780 CMR 120.AA, MA Board of Building Regulations and Standards (BBRS) Stretch Energy Code.
- Local Process
  - Documentation of the standard adopted, the mechanism in place for requiring this criterion for new construction, and how this standard provides reduced life-cycle energy costs.

Stretch Code Communities



Green Communities Division Programs & Resources for Municipalities

- Green Communities Grant and Planning Assistance Program
- MassEnergyInsight System
- Municipal Energy Efficiency Program
- Energy Performance Contracting Technical Assistance
- ARRA Stimulus Funding
- Website filled with tools & resources for municipalities:
  www.mass.gov/energy/greencommunities
- Email updates via listserv – Sign up today by send an email to:
  join-ene-greencommunities @listserv.state.ma.us

OUTREACH - REGIONAL COORDINATORS

- Regional Coordinators act as direct liaisons with cities and towns on energy efficiency and renewable energy activities
- Located at each of the DEP Regional Offices:
  - SERO – LAKEVILLE: Seth Pickering
    - Seth.Pickering@state.ma.us
  - NERO – WILMINGTON: Joanne Bissetta:
    - Joanne.Bissetta@state.ma.us
  - CERO – WORCESTER: Kelly Brown
    - Kelly.Brown@state.ma.us
  - WERO – SPRINGFIELD: Jim Barry
    - Jim.Barry@state.ma.us

Questions

- The webinar was recorded and will be available for viewing at your convenience. It will be posted on our website at:
  www.mass.gov/energy/greencommunities
- The slide presentation will also be posted at:
  www.mass.gov/energy/greencommunities

Sample Vehicle Listing From EPA Fuel Economy Guide

Sample Vehicle Listing
(Not Actual Data)

	Trans Type/ Speeds	Eng Size / Cylinders	MPG City / Hwy	Annual Fuel Cost	Notes
MINI					
Cooper S Clubman	A-S6	1.6/4	26/34	$1,656	P T
	M-6	1.6/4	27/36	$1,598	P T
CHEVROLET					
Aveo	A-4	1.6/4	25/34	$1,606	
	M-5	1.6/4	27/35	$1,498	
Camaro	A-S6	3.6/6	18/29	$2,048	
	M-6	3.6/6	17/28	$2,250	
FORD					
▶ Fiesta FWD	A-S6	1.6/4	29/38	$1,364	
▶	M-5	1.6/4	28/37	$1,404	
MIDSIZE CARS					
MERCURY					
Milan FWD	A-6	2.5/4	23/33	$1,732	
	M-6	2.5/4	22/29	$1,876	
Milan FWD FFV	A-S6	3.0/6	14/21	$2,438	E85
			20/28	$1,958	Gas

Manufacturer

Model

The most fuel-efficient automatic and manual vehicles per class are listed in black boldface type and marked with a black pointer (▶).

Alternative fuel vehicles are highlighted by a blue bar, and those that can use two kinds of fuel, such as flexible fuel vehicles, have an entry for each fuel type.

Transmission information: type (A=automatic, A-S=automatic transmission-select shift, AV= continuously variable transmission, M=manual, etc.) followed by number of gears or speeds

Engine size (in liters) followed by number of cylinders. EXAMPLE: 3.0-liter, 6-cylinder engine

Additional information to help further identify the vehicle (e.g., engine and fuel system info) along with other useful information about taxes, required fuel grade, etc.
EXAMPLE:
P=Premium Gasoline Recommended
T=Turbocharger

EPA city & highway MPG estimates
EXAMPLE: 25 MPG city, 34 MPG highway

Vehicle Class

Estimated annual fuel cost, assuming 15,000 miles of travel a year (55% city and 45% highway) and an average fuel price

Flexible fuel vehicles (FFVs) can run on gasoline or E85 (a mixture of 85% ethanol & 15% gasoline).

Green Communities
Massachusetts Department of Energy Resources

Helping Massachusetts Municipalities Create A Greener Energy Future

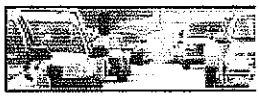
DOER
Massachusetts Department of Energy Resources

2012 Sport Utility Vehicles

Sorted by MPG (city), Click on column headings to resort

Select up to 4 models to compare

Compare! Model	Estimated New MPG city	Estimated New MPG hwy	Annual Fuel Cost	Carbon Footprint (tons/yr of CO_2)	Air Pollution Score (All states except CA and NE states)
Ford Escape Hybrid FWD 4 cyl, 2.5 L, Automatic (variable gear ratios), Regular	34	31	$1610	5.8	NA
Lexus RX 450h 6 cyl, 3.5 L, Auto(AV-S6), Premium	32	28	$1848	6.2	NA
Lexus RX 450h AWD 6 cyl, 3.5 L, Auto(AV-S6), Premium	30	28	$1915	6.5	NA
Ford Escape Hybrid AWD 4 cyl, 2.5 L, Automatic (variable gear ratios), Regular	30	27	$1775	6.5	NA
Toyota Highlander Hybrid 4WD 6 cyl, 3.5 L, Automatic (variable gear ratios), Regular	28	28	$1837	6.7	NA
Hyundai Tucson 2WD 4 cyl, 2.0 L, Automatic 6-spd, Regular	23	31	$1981	7.2	NA
Jeep Compass 2WD 4 cyl, 2.0 L, Manual 5-spd, Regular	23	29	$2058	7.5	NA
Jeep Patriot 2WD 4 cyl, 2.0 L, Manual 5-spd, Regular	23	29	$2058	7.5	NA
Ford Escape FWD 4 cyl, 2.5 L, Manual 5-spd, Regular	23	28	$2058	7.5	NA
Jeep Compass 2WD 4 cyl, 2.4 L, Manual 5-spd, Regular	23	28	$2058	7.5	NA



We have revised the 198
2007 MPG estimates to
make them comparable
the new 2008 estimates

Learn Mor

Personalize....

- Use your gas pric and Annual Miles
- Switch Units: Gallons/100 Miles Liters/100 km
- Show Air Pollutior Scores for CA and Northeast States

☐ **Jeep Patriot 2WD** 4 cyl, 2.4 L, Manual 5-spd, Regular

compare ▸

23 city	28 hwy	$2058	7.5	NA

☐ **Mitsubishi Outlander 2WD** 4 cyl, 2.0 L, Auto(AV-S6), Regular

compare ▸

23 city	28 hwy	$2058	7.5	NA

☐ **Jeep Compass 2WD** 4 cyl, 2.0 L, Automatic (variable gear ratios), Regular

compare ▸

23 city	27 hwy	$2145	7.8	NA

☐ **Jeep Patriot 2WD** 4 cyl, 2.0 L, Automatic (variable gear ratios), Regular

compare ▸

23 city	27 hwy	$2145	7.8	NA

☐ **Chevrolet Equinox FWD** 4 cyl, 2.4 L, Automatic 6-spd, SIDI; FFV, Gasoline or E85

compare ▸

Gas	22 city	32 hwy	$1981	7.2	NA
E85	15 city	22 hwy	$2719	5.9	

☐ **GMC Terrain FWD** 4 cyl, 2.4 L, Automatic 6-spd, SIDI; FFV, Gasoline or E85

compare ▸

Gas	22 city	32 hwy	$1981	7.2	NA
E85	15 city	22 hwy	$2719	5.9	

☐ **Chevrolet Equinox FWD** 4 cyl, 2.4 L, Automatic 6-spd, SIDI, Regular

compare ▸

22 city	32 hwy	$1981	7.2	NA

☐ **GMC Terrain FWD** 4 cyl, 2.4 L, Automatic 6-spd, SIDI, Regular

compare ▸

22 city	32 hwy	$1981	7.2	NA

☐ **Hyundai Tucson 2WD** 4 cyl, 2.4 L, Automatic 6-spd, Regular

compare ▸

22 city	32 hwy	$2058	7.5	NA

☐ **Kia Sorento 2WD** 4 cyl, 2.4 L, Automatic 6-spd, SIDI, Regular

compare ▸

22 city	32 hwy	$2058	7.5	NA

Kia Sportage 2WD 4 cyl, 2.4 L, Automatic 6-spd, Regular

Satcon

Broadway Electric: Turkey Hill Middle School

Home Live View Data Maintenance

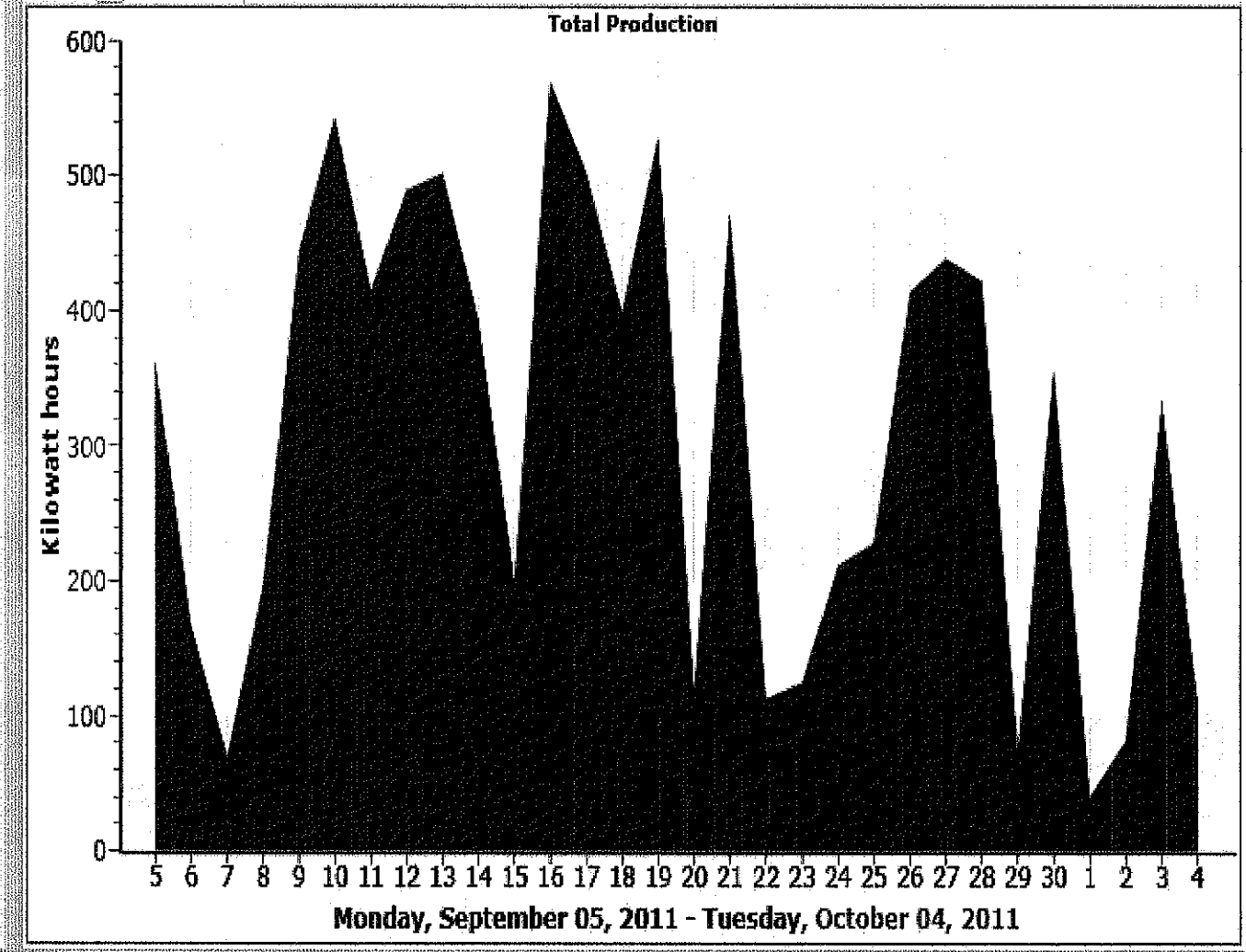
Site List Chart Gallery

Draw Chart

Total Production Production Comparison Yield Model Comparison Estimate Comparison

Week Month Year Lifetime Custom

Legend Copy Download Edit



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Logged in: jlonda

Timestamp	Broadway Electric: Turkey Hill Middle School: kWh
9/5/2011 0:00	364
9/6/2011 0:00	167
9/7/2011 0:00	70
9/8/2011 0:00	198
9/9/2011 0:00	444
9/10/2011 0:00	544
9/11/2011 0:00	415
9/12/2011 0:00	490
9/13/2011 0:00	502
9/14/2011 0:00	393
9/15/2011 0:00	201
9/16/2011 0:00	570
9/17/2011 0:00	503
9/18/2011 0:00	399
9/19/2011 0:00	529
9/20/2011 0:00	121
9/21/2011 0:00	473
9/22/2011 0:00	113
9/23/2011 0:00	125
9/24/2011 0:00	212
9/25/2011 0:00	228.5
9/26/2011 0:00	414.5
9/27/2011 0:00	439
9/28/2011 0:00	422
9/29/2011 0:00	76
9/30/2011 0:00	358
10/1/2011 0:00	41
10/2/2011 0:00	82
10/3/2011 0:00	335
10/4/2011 0:00	112
total	9341