

District Department of the Environment

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Energy Administration





DC's Demand-Side Management Programs

DC's DSM programs seek to

- Facilitate citywide adoption of energy efficiency and renewable energy practices
- Provide incentives to improve energy efficiency in the residential, commercial, institutional, government, and transportation sectors
- Reduce fossil fuel emissions, green house gases and maximize benefits for communities.





Old Setup

Retail Competition and Consumer Protection Act (1999)

- ➤ Two Funds under Retail Competition Act
 - □ Reliable Energy Trust Fund (RETF) Electricity (energy efficiency and renewable energy)
 - □Natural Gas Trust Fund (NGTF) Gas (energy efficiency)
- ➤ Administered by PSC
- ➤ PSC appointed DDOE to implement





Programs Operated by DDOE Under RETF and NGTF

RETF

- Weatherization and Rehabilitation Program
- Weatherization Rehabilitation Asset Preservation Program
- Home Energy Rating System
- Small Business Energy Efficiency Program
- Government Buildings Energy Efficiency Program
- Weatherization Plus Program
- Residential Aid Discount Expansion Program
- Residential Aid Discount Arrearages Retirement and Education Program
- Low Income Appliance Replacement Program
- LIHEAP Extension and Education Program
- Affordable Housing Energy Efficiency Rebate Program

NGTF

- Residential Essential Service Expansion and Awareness Program
- Residential Weatherization and Efficiency Program
- Heating System Repair, Replacement, and Tune-Up Program
- Energy Awareness Campaign
- Saving Energy in D.C. Schools





New Setup

Clean and Affordable Energy Act of 2008

- Amended the Retail Competition and Consumer Protection Act of 1999 to eliminate the Reliable Energy Trust Fund (RETF) and Natural Gas Trust Fund (NGTF)
- Established the Sustainable Energy Trust Fund (SETF), and the Energy Assistance Trust Fund (EATF), assessments on sales of electric and natural gas utility companies
- Created the District of Columbia Sustainable Energy Utility (DC SEU)



DC Sustainable Energy Utility

Objective

> To design and implement energy efficiency and renewable energy programs that serve a variety of end-use sectors in the District

Term

➤ One year with six one-year extension options

DC SEU Budget

> FY 2012: \$15M

FY 2013: \$17.5M

FY 2014+: \$20M

Funding Source

Sustainable Energy Trust Fund (\$.014 per-therm; \$.0015 per-kWh)

Role of DDOE

Monitoring and oversight of SEU's activities and performance

Role of SEU Advisory Board

➤ Provide advice, comments, and recommendations to DDOE and District Council regarding the SEU contract





DC SEU Contract

- Performance-based so contractor will receive financial incentives for meeting/exceeding the following performance benchmarks:
 - ✓ Reduce per-capita energy consumption
 - ✓ Reduce growth of peak electricity demand
 - ✓ Increase **renewable energy** generating capacity
 - ✓ Improve energy efficiency of low-income housing
 - ✓ Reduce energy demand of largest energy users
 - ✓ Increase number of green-collar jobs
- > Efficiency Programs must pass societal-benefit test





Measure	Benchmark
Low-Income spending	30% minimum
Green jobs	33 FTE, Year 1; 66 FTE, Year 2; 77 FTE, Year 3; 88 FTE thereafter
CBE spending	35% Year 1 minimum; 50% minimum thereafter
District resident jobs	51% minimum (First Source Agreement)
Energy savings	1% per year after start-up
Renewable Energy	Implement cost-effective program





Balanced Portfolio Approach

- Services available across all sectors, all Wards
- No single standard approach or standard result
 - Some focus more on jobs
 - Some focus more on energy savings
 - Some focus more on largest users, low-income, etc.
- > Result is steady progress toward all goals





FY 2011 Accomplishments

- 4,710 low-income multifamily residences served
- 754 small Commercial and Institutional (C&I) facilities served
- 169 single-family homes served
- 218 hot water solar collectors serving 1,837 commercial/multifamily units
- 15 Residential rooftop PV systems installed
- Lost Opportunities DC Schools and UDC
- Successful Grassroots campaign
- 30% of the \$7.4 million budget spent in low-income areas
- 75% of all spending went to DC-based businesses





Green Jobs & Business Development

- > 330 District residents employed
 - Temporary field staff, permanent office staff, construction workers, etc.
 - Hours totaled 28 FTEs in Living Wage+ jobs
 - 70 installers hired from DC training organizations
- ➤ Recruited, hired, trained, and now mentoring a committed and talented DC SEU staff
- ➤ 16 local contractors hired and trained in energy efficiency work
- Supply chain established





FY 2012 Plans

Transition to comprehensive initiatives using market-based approach

- Stimulate private sector with investments in energy efficiency
 - Contractors, customers, and capital
 - Leverage financial and other resources
 - Personalized account management

Services

- Technical assistance
- Custom incentives
- Market opportunities



FY 2012 Programs Low-Income Multifamily: Comprehensive; Property Manager Direct Install; Leveraging Low-Income Partnerships Food Bank CFL distribution Community outreach and education Small-scale solar

Non-Qualified Residential

DC Home Performance with ENERGY STAR®

Efficient products

Retail lighting

Retail appliances

Community outreach and education

Non-qualified multifamily

Renewable energy—risk reduction strategies for power purchase agreement

Commercial and Institutional

Commercial prescriptive rebates: HVAC; Food service; Lighting

T12 Blitz

Commercial custom: Account management

Design / analysis





- ➤ Instrumental in implementing EERE programs across all sectors and all Wards of the District
- Facilitate and enhance the education, awareness and outreach to District residents and businesses
- Creating the framework for a cleaner, greener, healthier city
- ➤ Requires energy and socioeconomic goals which stimulate the local economy and local business development
- Market-based model
- > Evidence that this model works.





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