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Comprehensive

Economic

Development

Strategy

2018-
2019

Annual Report
of Progress of Addressing Goals and Objectives
in the CEDS Document
for Contract Year April 1, 2018 - March 31, 2019



Old Colony Planning Council
70 School Street
Brockton, MA 02301

**OLD COLONY PLANNING COUNCIL
ECONOMIC DEVELOPMENT DISTRICT
ANNUAL REPORT OF PROGRESS OF ADDRESSING GOALS AND
OBJECTIVES IN THE CEDS DOCUMENT FOR CONTRACT YEAR APRIL 1,
2018- MARCH 31, 2019
CONTRACT # ED16PHI3020021**

GOALS AND OBJECTIVES

Objective of Evaluation Criteria

The Old Colony Planning Council Economic Development District CEDS Process is guided by the Vision Statement and Goals included in the Action Plan. **Evaluative Criteria** has been created to reflect these two elements for three areas: the CEDS process, regional economic status, and specific economic development project status. It is difficult to identify exact determinants that encompass all factors within the goals and objectives of the action plan. Due to this, two measurements are used as evaluation criteria: they are **Quantitative Measurement** and **Qualitative Measurement**. The former is a statistical figure(s) that best represents the intention of the goal and the latter is a more descriptive measurement of the goal. The evaluation criteria will measure the success and direction of the CEDS program for the Old Colony Planning Council EDD.

GOAL A: PARTICIPATION IN THE CEDS PLANNING PROCESS.

OBJECTIVE: (Long Term): To have participation in the CEDS Planning Process from as broad a range of economic development practitioners in the region as possible and to, recognize the link between workforce development and economic development that demonstrates the capacity to undertake a collaborative and effective planning process.

The CEDS Planning Process facilitates lines of communication and exchanges of information about economic development/workforce development/economic resiliency activities and serves as a source of information to deal with an economic challenge and as a convener of regional stakeholders to gather data and encourage collaboration post-disruption.

Participation in CEDS Planning Process:

QUALITATIVE MEASUREMENT: Increase efforts to have participation by as many groups as possible in the CEDS process. Work to increase meeting attendance, guest speakers, issue updates and presentations.

QUANTITATIVE MEASUREMENTS:

1. Increase the number of CEDS committee meetings from six to seven this report year.

2. Increase attendance of the CEDS Committee from 35% to 50% during the current report year to allow for diverse participation in the CEDS process by economic development practitioners in the region.
3. Invite three guest speakers who will speak on regional economic development issues to three of the six CEDS Committee meetings.
4. Distribute updates to ten economic development entities, five workforce development entities and two local colleges/universities in the region and monitor the number and organizations and participants that received the CEDS Community Economic Development Updates during the current report year.
5. Improve CEDS Outreach, by conducting one workshop on a key CEDS issue and attending two economic partner's economic development functions during the current report year.

EVALUATION CRITERIA

NUMBER OF CEDS COMMITTEE MEETINGS

1. 5 or 6 annually (Excellent)
2. 4-5 annually (Good)
3. 5 or less annually (Needs Improvement)

TOTAL ATTENDANCE/AVERAGE ATTENDANCE

1. 60 or more annually (Excellent)
2. 30-60 annually (Good)
3. 29 or less annually (Needs Improvement)

GUEST SPEAKER/PRESENTATIONS

1. 6 or more annually (Excellent)
2. 3-5 annually (Good)
3. Less than 3 annually (Needs Improvement)

CEDS COMMUNITY ECONOMIC DEVELOPMENT ISSUES UPDATES

1. 4 or more issue updates (Excellent)
2. 3 issue updates (Good)
3. Less than 2 (Needs Improvement)

CEDS OUTREACH ACTIVITIES

1. 4 or more annually (Excellent)
2. 3-2 annually (Good)
3. 1 or less (Needs Improvement)

EVALUATION RESULTS

CEDS COMMITTEE MEETINGS	2014-15	2015-16	2016-17	2017-18	2018-19
1. Number Held	6	6	6	7	6
2. Total Attendance	123	122	99	109	109
a) OCPC Delegates	6	5	1	3	1
b) Private Sector	23	11	4	4	4
c) Workforce/Econ Dev. Practitioners	46	39	49	49	49
d) Other (including transportation)	48	47	50	53	50
Average Attendance	21	20	17	16	17
3. Guest Speakers/ Presentations	7	11	10	11	10
4. Issue Updates	7	10	14	13	14
5. Workshops/Web Conferences	1	0	0	0	0

FINDINGS: In 2018-2019, six meetings were held. A seventh planned meeting was snowed out. There were ten guest speakers and presentations. Issue updates were distributed to ten economic development entities, five workforce development entities and two local colleges and universities. Staff and committee members attended several economic developments partners' functions during the 2018-2019 year.



October, 2018 CEDS Committee meeting

GOAL B: PROMOTE THE IDENTIFICATION OF QUALITY INDUSTRIAL COMMERCIAL LAND AND THE REUSE OF OLDER FACILITIES IN THE REGION.

OBJECTIVE: (Long Term): To increase the supply of quality industrial or commercial land, to promote the development of technology ready sites with fiber optics improvements included in any infrastructure improvements, encourage water and wastewater improvements, identify growth industries and to recommend/advise on future land use.

QUALITATIVE MEASUREMENT: Increase efforts to perform community assistance projects that identify developable commercial/industrial land.

QUANTITATIVE MEASUREMENT: Determine how much commercial/industrial land in the region has been expanded/ developed based on the number of community assistance projects awarded to OCPC communities.

**EVALUATION CRITERIA:
THE NUMBER OF COMMUNITY ASSISTANCE PROJECTS THAT ASSIST COMMUNITIES TO IDENTIFY OR DEVELOP COMMERCIAL/ INDUSTRIAL LAND.**

1. 6 or more community assistance projects that assist communities to identify or develop commercial/industrial land (Excellent)
2. 4-5 community assistance projects (Good)
3. Less than 4 community assistance projects (Needs Improvement)

EVALUATION RESULTS

<u>Year</u>	<u>Number of Community Assistance Projects</u>
2014-2015	3
2015-2016	3
2016-2017	2
2017-2018	2
2018-2019	2

<u>Year</u>	<u>Acres of Undeveloped Commercial/Industrial Land Identified As Available for Development</u>	
2010-2011	819.9	Eight-Town Economic Target Area
2011-2012	0	
2012-2013	0	
2013-2014	0	
2014-2015	0	
2015-2016	0	
2016-2017	0	
2018-2019	0	

FINDINGS:

East Bridgewater: OCPC successfully worked with East Bridgewater to obtain funds to assess for clean up two town owned brownfields sites in the center of town to attract new jobs to the community and to help the town market the site. Work is ongoing in 2019 on these sites. Council staff prepared an Industrial Overlay District for the site, which was approved by Town Meeting in June 2013. OCPC completed a Marketing Study for East Bridgewater Center in 2016. Goals B and O.

Southfield: OCPC an active participant in the reuse planning for the closed South Weymouth Naval Air Station now known as “Union Point” which includes the District town of Abington. Progress has been made on this project. As of June 30, 2018 the following projects are underway: Town Center Apartments (265 units), construction underway. Dorset Park (26 single family homes), 16 units constructed. Brookfield Village (108 mixed units) 33 units constructed. Woodstone Crossing (200 units), the second of the four condominium buildings (50 units each) was under construction. William B. Rice Eventide-Fairing Way (216 apartments) as of June 30, 2017-Phase 1 complete: 104 units and the long-term care facility constructed. LStar Recreation Complex. Domed sports complex open as of February, 2019. Greystar Active Adult Apartments (180 units) Plan approved. Stonebridge (45 single family homes) Plan approved.

Town of Plymouth: OCPC Staff is working with the Town of Plymouth on development proposals for 1,000 acres of land off Bourne Road just north of Route 25.

Whitman: OCPC is working with the town; MassDevelopment, MA DEP, US EPA and Bridgewater State University to do assessment, final clean up and market the former Regal Shoe brownfields site. (Goals B and O)



Town owned brownfields site in East Bridgewater



KolTar Abington plant

GOAL C: PROMOTE ENTREPRENEURSHIP AND PRESERVE EXISTING BUSINESS AND INDUSTRY BY PROVIDING PLANNING ASSISTANCE.

OBJECTIVE (Long Term): Increase the number of business startups and promote the retention of existing business and industry and assist in the region’s economic resiliency.

QUALITATIVE MEASUREMENT: Increase efforts to perform assistance to new and expanding businesses in the district and communities seeking to attract/retain businesses.

QUANTITATIVE MEASUREMENT: Determine how much assistance resulted in new investment in the district.

EVALUATION CRITERIA:

ASSISTANCE TO NEW AND EXISTING BUSINESSES

1. Provide planning assistance to 5 or more new or existing businesses/communities (Excellent)
2. Provide assistance to 3 or 4 (Good)
3. Provide assistance to less than 3 (Needs Improvement)

TOTAL NON-FARM ESTABLISHMENTS BY COUNTY, 2001, 2007 & 2012

	<u>MA</u>	<u>PLYMOUTH COUNTY</u>	<u>BRISTOL COUNTY</u>	<u>NORFOLK COUNTY</u>
2001	177,434	11,997	13,364	19,738
2007	176,701	12,557	13,600	19,796
2012	170,928	11,820	12,579	19,369
% Change				
2000-2012	-1.3%	-1.1%	-1.6%	-1.1%

Source: U.S. Census

EVALUATION RESULTS

ASSISTANCE TO NEW AND EXISTING BUSINESSES/COMMUNITIES

<u>Year</u>	<u>Number of businesses/communities assisted</u>
2011-12	6
2012-13	6
2013-14	6
2014-15	4
2015-16	5
2016-17	2
2017-18	2

Region-Wide:

The Pilgrim Nuclear Power Station Study: A Socio-Economic Analysis and Closure Transition Guide Book. In August 2014, the Town of Plymouth and OCPC appointed the Center for Economic Development at the University of Massachusetts/Amherst and the Institute for Nuclear Host Communities to evaluate the local and regional socio-economic impacts of closing and decommissioning of the Pilgrim Nuclear Power Station in Plymouth. Pilgrim's current operating license-renewed in 2012- extends through June 2032. This study was completed in April 2015. OCPC staff is working with the town's Entergy Working Group to deal with the economic impacts of the plant which closed on May 31, 2019.

In Spring, 2019, OCPC is working with the U.S. EDA and the Towns of Kingston and Plymouth to plan a Regional Economic Diversification Summit (REDS) to be held at Kingston Town Hall on Thursday, September 19, 2019. This summit will discuss and find solutions to the infrastructure needs and workforce development needs for these two communities to help them deal with the impacts on their communities due to the closure and loss of jobs with the closure of the Entergy Pilgrim Nuclear Power plant in Plymouth on May 31, 2019.

FINDINGS: In 2018-2019 Council, staff provided demographic data to individuals seeking to start new businesses and to existing businesses seeking to stay in, expand in or

relocate to this area. OCPC assisted four communities in business assistance/retention efforts.

GOAL D: WORK TO MAINTAIN AND ENHANCE THE REGION'S QUALITY OF LIFE.

OBJECTIVE (Short Term): Obtain state and local approval of a regional development vision that capitalizes on the growth and development of Southeastern Massachusetts while enhancing the region's quality of life and promoting regional economic development.

QUALITATIVE MEASUREMENT: Work with low scoring communities to make their zoning more smart-growth orientated.

QUANTITATIVE MEASUREMENT: Determine if low scoring communities have made changes to their zoning to be more "Smart Growth" orientated as a result of the survey.

EVALUTION CRITERIA:

Community score of 50 points or better on the "Smart Growth Audit" conducted by Vision 2020 in 2003-2004. Above 50 points = "some aspects of a smart growth approach to development."

- 75% or more communities above 50 points (Excellent)
- 50% or more communities above 50 points (Good)
- Less than 50% of communities above 50 points (Needs Improvement)

FINDINGS: The Smart Growth Audit, a self-assessment tool for the region's communities was completed by all of the seventeen OCPC Communities. Nine of those communities or 60% scored above 50 points, while six or 40% scored below 50 points.

GOAL-E: SUPPORT THE DEVELOPMENT OF TRANSPORTATION PROJECTS NECESSARY FOR ECONOMIC DEVELOPMENT.

OBJECTIVES (Long Term): To increase mobility through public transportation and highway improvements and improvements to air and railroad facilities in the region.

QUALITATIVE MEASUREMENT: Increase efforts to get transportation projects advertised and implemented.

QUANTITATIVE MEASUREMENT: Determine how many transportation projects have actually been advertised for construction in the past year.

EVALUATION CRITERIA:

Number of Transportation Projects / Year

- 1. 4 or more / year (Excellent)
- 2. 3-2 / year (Good)
- 3. 0-1 / year (Needs Improvement)



New Brockton Area Transit (BAT) bus

**EVALUATION RESULTS
TRANSPORTATION IMPROVEMENT PROGRAM (TIP) PROJECTS
ADVERTISED**

	# of PROJECTS	FEDERAL FUNDS	STATE LOCAL FUNDS	TOTAL
FFY 2012	5	\$4,933,130	\$1,233,283	\$6,166,413
FFY 2013	3	\$7,527,091	\$1,001,505	\$8,538,596
FFY 2014	3	\$7,498,387	\$994,329	\$8,492,716
FFY 2015	3	\$9,772,726	\$1,538,246	\$11,310,972
FFY 2016	5	\$18,953,341	\$2,157,038	\$21,110,379
FFY 2017	1	\$7,063,405	\$1,765,851	\$8,829,256
FFY 2018	4	\$14,227,870	\$3,569,468	\$17,847,338
Totals	51	\$125,299,026	\$29,783,260	\$155,142,220

FINDINGS: Transportation Planning is necessary for Economic Development.

- The Council/EDD promotes transportation improvement projects in the district through its Transportation Improvement Program (TIP).
- The Council provides planning staff to the Metropolitan Planning Organization (MPO), which is the regional clearinghouse for transportation project funding.
- The Council/EDD performs transportation planning tasks for member communities.
- The Council has a Joint Transportation Committee (JTC), which deals with regional transportation issues and is open to the public. There were ten JTC meetings and nine MPO meetings between April, 2018 and March, 2019.

Projects by community include:

- Abington and Brockton: Route 123 Corridor Study.
- Brockton: Road Safety Audits at the following intersections: Thatcher Street and Pine Street, Pine Street and Summer Street, North Cary Street and Ames Street, North Carey Street and Quincy Street, West Chestnut Street and Pearl Street.
- Duxbury: Route 53 Corridor Study.
- Duxbury: Road Safety Audits at the following intersections: Route 3A and Tobey Garden Street, Route 3A and Church and Tremont Streets.
- East Bridgewater: Route 106 Corridor study.
- Easton: Road Safety audits at the following intersections: Turnpike Street and Purchase Street, Washington Street and Purchase Street.
- Halifax: Route 106 Corridor Study.
- Hanover: Winter Street Traffic Study.
- Hanson: Route 53 Corridor Study.
- Kingston: Route 106 Corridor Study.
- Pembroke: Route 53 Corridor Study.
- Plympton: Route 106 Corridor Study.
- Stoughton: Road Safety audits at the following intersections: Pleasant and Lincoln Streets, Canton Street and School and Summer Streets.
- West Bridgewater: Route 106 Corridor Study.

Ongoing projects include:

- Pavement Management Program.
- Multiple MEPA Reviews and Site Visits.
- FFY 2019 Unified Planning Work Program.
- Old Colony FFY 2020-2024 Transportation Improvement Program (TIP).
- TIP Adjustments and Amendments.
- Congestion, Mitigation and Air Quality (CMAQ) Project Analyses and Consultation Committee Meetings.
- Massachusetts Association of Regional Planning Agencies (MARPA) TIP Quarterly Coordination Meetings.
- Multiple 25% Design Public Hearings.
- TIP Coordination meetings with MassDOT, and Communities.
- TIP Project Reviews.
- MassDOT and OCPC Traffic Count Program.
- Automatic Traffic Recorder (ATR) and Turning Movement Counts (TMC).

- Geographic Information systems (GIS) Point Layers.
- Comprehensive Intersection Database.
- Turning Movement Counts.
- Multiple GIS Products and Technical Assistance.
- Pictometry Products and Technical Assistance.
- Traffic Records Coordinating Committee.
- South Coast Rail Technical Assistance.
- Southeastern Massachusetts Commuter Rail Task Force Participation.
- Abington and Brockton: Route 123 Corridor Study.
- Hanover, Pembroke, Duxbury and Kingston: Route 53 Corridor Study.
- Kingston: Historic District Transportation Study.
- West Bridgewater, East Bridgewater, Halifax, Plympton, and Kingston: Route 106 Corridor Study.

GOAL F: SUPPORT A POLICY OF SUSTAINABLE DEVELOPMENT.

OBJECTIVE: (Long Term): To maintain the number of working farms in the region.

QUALITATIVE MEASUREMENT: Increase efforts to work with the Pilgrim Resource, Conservation and Development Area Council to promote sustainable development principals in the district.

QUANTITATIVE MEASUREMENT: Determine how much land is being used for farms and how many farms exist in the district in the most recent year when data is available.

EVALUATION CRITERIA: Promote expansion of number of farms in region.

EVALUATION RESULTS

ACREAGE DEVOTED TO AGRICULTURE AND NUMBER OF FARMS IN THE REGION, 1987, 1992, 1997, 2002, 2007, 2012

	MA	PLYMOUTH COUNTY	BRISTOL COUNTY	NORFOLK COUNTY
		Total	Total	Total
A. Farm Acreage				
1987	615,185	77,140	42,562	N/A
1992	526,440	72,247	34,235	N/A
1997	577,637	73,418	37,173	9,969
2002	518,570	59,445	36,085	12,645
2007	517,879	49,612	39,252	11,654
2012	523,517	64,032	34,869	9,448

B. Number of Farms

1987	6,216	775	675	N/A
1992	5,258	668	523	N/A
1997	7,307	732	555	185
2002	6,075	794	624	208
2007	7,691	882	777	264
2012	7,755	825	717	245

Source: U.S. Census of Agriculture

2017 Private Shellfish Propagation Permits and Acreage Under Cultivation OCPC Region

<u>Municipality</u>	<u>#Growers</u>	<u>Total Acres</u>	<u>Species Grown</u>
Duxbury	27	77.5	Oyster, Quahog, Surf Clam
Kingston	3	8.5	Oyster
Plymouth	31	84.6	Oyster, Quahog, Surf Clam Bay Scallop

Source: MA Division of Marine Fisheries 2017 Annual Report

2017 Aquaculture Landings and Value American Oyster OCPC Region

<u>Municipality</u>	<u>Pieces</u>	<u>Reported Value</u>
Duxbury	12,339,545	\$6,804,473
Kingston	260,915	\$145,472
Plymouth	2,366,015	\$1,292,389

Source: MA Division of Marine Fisheries 2017 Annual Report

2017 New Municipally Issues Shellfish License Certifications in OCPC Region

<u>Municipality</u>	<u>License Sites</u>	<u>Acres</u>
Plymouth	1	1.5

Source: MA Division of Marine Fisheries 2017 Annual Report

Brockton: The City of Brockton is working on an Urban Agriculture Plan in 2019.

Plymouth: According to the Plymouth Harbormaster, there were 960,000 lbs. of lobster landings in Plymouth in 2016 worth \$4.47 million dollars.

Stoughton: Sky 8 Shrimp Farm LLC grows fresh shrimp. They are the first shrimp farm in MA and the eighth in the United States.

Hydroponics is being considered as a new element in district agriculture.

Bridgewater, East Bridgewater, Easton, Halifax, Kingston, Plympton, Plymouth and West Bridgewater have local Right To Farm bylaws.

FINDINGS: The amount of agricultural acreage in Norfolk County decreased by 2,206 acres from 2007 to 2012. The amount of agricultural acreage in Bristol County decreased by 4,383 from 2007 to 2012. The amount of agricultural acreage in Plymouth County increased by 14,420 acres from 2007 to 2012. The number of farms increased in Massachusetts and decreased in all three counties between 2007 and 2012. The Council/EDD works with the Pilgrim Resource, Conservation and Development Area Council to promote sustainable development principals in the district. The region has considerable aquaculture resources in our coastal communities.

GOAL-G: PROVIDE DATA AND INFORMATION TO SUPPORT ECONOMIC DEVELOPMENT IN THE REGION.

OBJECTIVE (Long Term): Make information available through the internet and Geographic Information Systems (GIS) and Pictometry, as well as traditional sources, collect, research on future economic development trends, identify clusters, and identify problem areas or areas with potential future problems and future strengths.

QUALITATIVE MEASUREMENT: Increase efforts to make the community aware that OCPC is a data resource.

QUANTITATIVE MEASUREMENT: Determine how many data requests have been made in the most recent year and in what form they were answered.

EVALUATION CRITERIA: Data and Information requests answered. Job creation information as a result of these data requests is unavailable.

Data Requests Responded/Year

1. 20 or more (Excellent)
2. 15-18 (Good)
3. 14 or less (Needs Improvement)

EVALUATION RESULTS

Number of Data Requests

<u>Year</u>	<u>Local</u>	<u>Regional</u>	<u>Out of State</u>	<u>Total</u>
2014	20	10	1	31
2015	20	10	1	31
2016	20	10	2	32
2017	10	5	1	16
2018	10	5	1	16

FINDINGS: The Council/EDD is a State Data Center for demographic information. The Council conducts an annual traffic-counting program. OCPC has a two person GIS

Department that provides GIS mapping services to OCPC member communities. Staff writes Community Development Plans that have Economic Development elements. Staff maintains a library of economic development information. Council staff writes and maintains a regional data book of demographic information useful for economic development.

GOAL-H: IMPROVE THE EDUCATION AND SKILLS OF THE REGION’S WORKFORCE.

OBJECTIVE (Long Term): Provide programs for continuous education of the region’s workforce so businesses can have access to a pool of employees with up-to-date skills and provides for economic resiliency.

QUALITATIVE MEASUREMENT:
Encourage the District’s manpower training partners to continue to develop workforce training programs to meet the needs of present and future employers in the region.

QUANTITATIVE MEASUREMENT:
Determine if educational attainment in the OCPC region rises or decreases from each U.S. Census and identify it for the current CEDS.

EVALUATION CRITERIA:
Educational Attainment on the OCPC region.



Bridgewater State University

1. EDUCATIONAL ATTAINMENT* IN THE OCPC REGION, 2000-2010

	% Completed High School Or Higher		% Completed Bachelor’s Degree Or Higher	
	<u>2000</u>	<u>2010</u>	<u>2000</u>	<u>2010</u>
OCPC Region	89.3%	91.33%	30%	21.75%
Massachusetts	84.8%	90.3%	33.2%	42.1%

*for persons 25 years and older
Source: New ACS Data sourced 2019

COURSES CURRENTLY BEING OFFERED BY HIGHER EDUCATIONAL PROVIDERS IN THE REGION

MASSASOIT COMMUNITY COLLEGE, Three campus locations: Brockton, Canton, Middleboro. 2019 Enrollment: 7,154 students at all three campus locations.

Massasoit Community College in Brockton offers a course on designing solar electricity arrays. The course prepares both professionals such as electricians and newcomers to take the solar installer certification test offered by the North American Board of Certified Energy Practitioners.

At the Brockton campus the college offers Associate Degree programs in Business Administration, Child Care Education and Administration, Computer Application Specialist, Computer Information Systems, Criminal Justice, Culinary Arts, Fire Science Technology, Human Services, Liberal Arts Studies, Nurse Education, Radiologic Technology, Respiratory Care, Travel and Tourism, a One-Year Certificate Program in Office Technologies and In-House Certificate Programs of Study in Child Care, Computerized Accounting, Computerized Office Services, Computer Repair and Maintenance, Computerized Tomography, Conflict Resolution, Department of Mental Retardation-Direct Support, Financial Support Services, Food Production, Irish-American Studies, Law Enforcement, Magnetic Resonance Imaging, Microsoft Office, Office Skills, Polysomnography, Travel and Tourism, and Website Design and Development.

At the Canton campus the college offers Associate Degree programs in Architectural Technology, Business Administration Careers –General Business, Criminal Justice, Diesel Technology, Electronic Technology, Heating, Ventilating & Air Conditioning Technology, Liberal Arts Studies, Visual arts, One Year Certificate Programs in Dental Assistant and Medical assistant and In-House Certificate Programs of Study in Fashion Merchandising, Insurance Billing Specialist, Law Enforcement, Medical Coding, Museum Studies and Phlebotomy.

At the Middleboro campus, the college offers Associates Degree programs in Liberal Arts, Business Administration focusing on the Business Administration Career Program and the Hospitality Option for Business, Criminal Justice Program and Early Childhood Education.

The National Association accredits Massasoit’s Early Childhood Education Program for the Education of Young Children (NAEYC).

BRIDGEWATER STATE UNIVERSITY, Bridgewater. Enrollment 2019: 10,729 total, 9,268 undergraduate students and 1,461 graduate students.

Bridgewater State University, formerly Bridgewater State College was granted university status in late 2010. The University has twenty undergraduate departments in the School of Arts and Science, ranging from Anthropology to Theater and Dance, four departments in the School of Business and five in the School of Education and Allied Studies. The

College's interdisciplinary programs offer minors in Actuarial Science, Regional Development Studies (American, Asian, Canadian, Irish American, Latin and Caribbean, Russian and European), Health Resources Management, Urban Affairs, Public History, and Woman and Gender. Pre-professional program offerings include Pre-Medical, Pre-Dental, Pre-Veterinary and other medically orientated professions. The Graduate School Grants Masters Degrees in Arts, Teaching, Education, Public Administration, Science, Science in Management, and Social Work. Certificates of Advanced Graduate Studies in Educational Leadership, Mental Health Counseling, Reading and School Guidance Counseling are also available. Most recently, the university is offering a Doctor of Education (EdD) in the areas of Educational Leadership and Reading in collaboration with UMass/Lowell.

STONEHILL COLLEGE, Easton. Enrollment 2019: 2,498 undergraduate students.

The college has more than eighty majors and minors programs including Accounting, American Studies, Art History, Arts Administration, Biochemistry, Biology, Catholic Studies, Chemistry, Communication, Computer Science, Computer Science, Criminology, Early Childhood Education, Economics, Education Studies, Elementary Education, Engineering Notre Dame, English, Environmental Sciences and Studies Finance, Foreign Languages, French, Gender and Sexuality Studies, Graphic Design, Health Care Administration, History, Interdisciplinary Studies, International Business, Management, Marketing, Mathematics, Music, Neuroscience, Philosophy, Physics, Political Science and International Studies, Psychology, Religious Studies, Sociology, Spanish, Studio Arts and Visual and Performing Arts.

FISHER COLLEGE, Brockton campus

Fisher offers traditional and online courses in two and four-year enrollment programs through Fisher's division of accelerated and professional studies. Courses offered include communications and media studies, criminal justice, human services management, psychology and certificates in medical assistants and coding. Fisher College also offers a school of nursing at Brockton Hospital.

CAPE COD COMMUNITY COLLEGE, Plymouth campus.

Cape Cod Community College offers an Aviation Maintenance Technology program at the Plymouth Airport.

CURRY COLLEGE, Plymouth Campus

Curry offers Bachelor's Degree Programs in: Accounting, Business Management, Communication, Criminal Justice, Leadership, Nursing (RN-BS and ACCEL), Psychology, Sociology, Undergraduate Certificates: Human Resource Management. Graduate Degree Programs: Business Administration, Criminal Justice, Education, Nursing. Graduate Certificates: Principal and Supervisor Licensure. They also offer: Corporate and Technology Training.

QUINCY COLLEGE, Plymouth Campus

Quincy offers training in the following areas: Aquaculture Certificate Program, Insurance Careers, Physical Therapist Assistant, Web and Mobile Development.

UNIVERSITY OF MASSACHUSETTS/BOSTON, Plymouth campus
Offers Corporate Certificate Programs and Professional Certificate Programs.

LINCOLN TECHNICAL INSTITUTE, Brockton campus
Lincoln offers training programs covering a variety of fields including: Health Sciences, Business and Information Technology, Hospitality, Automotive Technology, HVAC Technology and Electrical Systems Technology.

MassHire Greater Brockton Area Workforce Board (formerly BAWIB) directs the regional effort of workforce development training. In June of 2015, MassHireGBWB completed the purchase of 34 School Street – a property that the organization had previously leased – leveraging private and public funds. The \$1 million investment was made to create the Center for Workforce Development, a cross-sector partnership designed to:

- Meet the needs of the area’s Healthcare and Advanced Manufacturing firms by converting part of the space into training labs.
- Provide a central location for jobseekers to access a comprehensive menu of services offered by multiple social service agencies.
- Generate revenue to expand and sustain the number of individuals – both incumbent and un/underemployed –trained and qualified for high demand occupations.

Other MassHireGBWB initiatives include:

- **AMP It Up!** – A MassDevelopment grant program designed to promote careers in advance manufacturing among middle and high school students.
- **YouthWorks Summer Jobs Program** – A state funded summer employment program that provides paid work experience for low-income youth ages 16-21.
- **YouthCareerConnect** – A US Department of Labor funded program in which MassHireGBWB, Brockton Public Schools, Massasoit Community College, Jobs for the Future, and local businesses have partnered to create Science, Technology, Engineering and Mathematics (STEM) career pathways for students in grades 9-14.
- **Workforce Innovation and Opportunity Act (WIOA) Programs** –Federally funded job training programs for in-school youth, out of school youth, un-underemployed adults, dislocated workers, and other individuals facing barriers to employment.

FINDINGS: The region’s educational attainment levels are improving. The region has a higher percentage of those who have completed high school than the state. There is still need for the region to improve in the area of Bachelor degrees’ attainment or higher to keep place with statewide improvement over ten years. Many programs, initiatives and incentives are being offered to address the education needs of the region’s working

population. Major investments are being made to college and university campuses in our region. These educational resources provide area workers opportunities to gain and enhance skills and for employers to train new and current employees in needed skills.

GOAL-I: TO MEET THE NEEDS FOR FINANCING AND TECHNICAL SUPPORT AVAILABLE TO TROUBLED, EXPANDING, START-UP OR MINORITY OWNED FIRMS.

OBJECTIVE (Long Term): To support businesses in creation or retention of jobs.

QUALITATIVE MEASUREMENT: Work to support and increase the number of loans and industrial revenue bonds available to businesses in the District.

QUANTITATIVE MEASUREMENT: Identify the number of loans made by SEED Corp. and the number of revenue bonds reviewed in the District in the last year.

EVALUATION CRITERIA:

Number of Industrial Revenue Bonds Reviewed

1. 5 or more (Excellent)
2. 2-4 (Good)
3. 0-1 (Needs Improvement)

Number of jobs created as a result of the revenue bonds

1. 60 or more (Excellent)
2. 20-59 (Good)
3. Less than 20 (Needs Improvement)

Jobs saved as a result of the revenue bonds

1. 38-74 (Excellent)
2. 20 or more/Year (Good)
3. Less than 38/year (Needs Improvement)

Number of SBA, RLF and Micro Loans Granted

1. 10 or more/year (Excellent)
2. 9-6/year (Good)
3. less than 5/year (Needs Improvement)

EVALUATION RESULTS:

REGIONAL INDUSTRIAL REVENUE BONDS REVIEWED FOR CONFORMANCE WITH REGIONAL PLAN

Year	Number of Bonds reviewed	Total Amount of bonds	Jobs Created*	Jobs Saved*
2012-13	6	\$82,982,121	243 statewide	N/A
2013-14	2	\$12,050,000	155	N/A
2014-15	1	\$19,500,000	183 statewide	N/A
2015-16	1	\$14,000,000	N/A	N/A
2016-17	0			
2017-18	1	\$50,000,000	N/A	N/A
2018-19	2	\$39,900,000	N/A	N/A

*number of jobs created and saved are stated in the bond applications

SEED CORPORATION PORTFOLIO OCTOBER 1, 2017-SEPTEMBER 30, 2018 IN THE OCPC EDD

	No. of Loans	Total Amount (000'S)	#New Jobs
SBA 504	5	\$5,400	19
Revolving Loan Fund	4	\$592	43
Micro Loan Program	4	\$362	28
Totals	13	\$6,354	90

INVESTMENTS BY SEED VENTURES LP IN THE OCPC EDD 2006-2018

No. of Investments	Total Amount
4	\$3,636

Source: SEED Corporation 2018 Annual Report

FINDINGS: The South Eastern Economic Development (SEED) Corporation is an excellent source of business funding in Massachusetts and Rhode Island. SEED has four loan programs, SBA 504, Revolving Loan Fund (RLF), the Micro Loan Program and SEED Ventures LP, a \$20 million mezzanine/venture capital fund that is in place to address the gap for equity capital.

SEED Corp. has funds available for small businesses in Brockton. The funds are available through the Brockton Business Loan Program, which consists of a Micro Loan Program: loans up to \$50,000, unsecured loans up to \$10,000 and Small Loan Program: loans from \$1,000 to \$200,000 for startup and existing businesses. Eligible Brockton businesses: for-profit businesses including restaurants, retail shops, arts/culture, home-based businesses, and many more. The following agencies were involved in developing the program: The Brockton Redevelopment Authority, Metro South Chamber of Commerce, and the Brockton 21st Century Corporation.

In the total SEED Corp., service area:

- In the past year with grants from the SBA and Rockland Trust CDE, SEED held 47 workshops attended by 684 entrepreneurs, and provided business assistance to another 482 for a total of 1,166 entrepreneurs assisted. These workshops taught: Fundamentals of Planning, Preparing For And Financing Your Business and Understanding Financial Statements.

INVESTMENTS BY MASSDEVELOPMENT IN THE OCPC EDD

MassDevelopment continues to assist area businesses with funding.

In 2018, MassDevelopment funded in Brockton:

- TDI Technical Assistance, City of Brockton, \$18,063.
- Downtown Brockton Leadership Program, TDI Cohort Program, \$10,000.
- Fuller Craft Museum, CoWork Grant, \$26,315.
- Hard Rock Concrete Construction, Real Estate Loan, \$183,000.
- PROVA!, Commonwealth Places, \$50,000.
- Signature Healthcare Corp., Tax Exempt 501 c 3 bond, \$50,000,000.

Easton:

- Oakes Ames Memorial Hall, Cultural Facilities Fund Feasibility/Technical Grant, \$20,000.
- The Children’s Museum in Easton, Cultural Facilities Fund Capital Grant \$7,000.
- Stonehill College, 2 tax exempt 501 c 3 bonds, one for \$14,829,024 and the other for \$25,000,000.

Plymouth:

- A Creative Celebration of America’s Hometown, Commonwealth Places, \$13,000.
- District Improvement Financing Guide, Municipal Services, \$100,000.
- Plymouth Plantation, Cultural Facilities Fund Capital Grant, \$310,000.
- Manomet, Cultural Facilities Fund Capital Grant, \$120,000.

Total amount for these communities: \$40,686,402.

GOAL J: PROMOTION AND DEVELOPMENT OF OUR TOURISM INDUSTRY.

Objective (Long Term): To provide improved linkage between regional tourist attractions.

QUALITATIVE MEASUREMENT: Work with the local tourism authorities to increase awareness of Plymouth County tourism opportunities.

QUANTITATIVE MEASUREMENT: Identify and put in the most recent CEDS the most recent available local option room tax and local option meal tax revenue.

EVALUATION CRITERIA: Local option room tax collection figures and local option meal tax revenue figures for Plymouth County.

EVALUATION RESULTS:

PLYMOUTH COUNTY LOCAL OPTION ROOM AND MEALS TAX REVENUES FY 2012-2017

	Local Option Room Tax Revenue	Local Option Meals Tax Revenue
FY 2012	\$2,417,348	\$2,668,587
FY 2013	\$2,602,677	\$3,555,594
FY 2014	\$2,788,860	\$4,359,765
FY 2015	\$3,352,501	\$6,067,279
FY 2016	\$3,676,919	\$7,257,016
FY 2017	\$3,641,584	\$7,671,528

Source: MA Office of Travel & Tourism

FINDINGS: Local option room tax revenues and local option meals tax revenues have increased for the past six fiscal years. According to the Plymouth Harbormaster in 2016, there were 250,000 visitors to Mayflower 2 and 100,000 passengers on fishing and whale watching boats that operate out of Plymouth Harbor. In addition, 1,200-1,400 transient boaters visited Plymouth Harbor in 2016 for overnight and day trips.

GOAL K: PROMOTE TRANSIT ORIENTATED DEVELOPMENT (TOD)

OBJECTIVES: (Long Term) to develop mixed-use, higher density development centered on existing or new transportation facilities. To create efficient land use practices with compact development patterns, less dependence on automobiles, a range of housing opportunities and choices, and an improved jobs/housing balance.

SWOT Analysis

The SWOT factors below are relevant to addressing Goal K

- MBTA Commuter Rail Service is available to nine OCPC communities.
- Brockton Area Transit provides bus service to Brockton and some surrounding communities including Abington and Rockland.
- Greater Attleboro Transit Authority provides bus service to Duxbury, Hanson, Kingston and Plymouth.

Weaknesses and Threats

The region has aging infrastructure. Water, sewer, electric, natural gas and seawall/revetment improvements are long overdue in certain parts of the region and unless addressed will become major deterrents to growth.

What is being done?

The Town of Abington has a TOD district near it's MBTA commuter rail station. The City of Brockton and the Town of Stoughton have TOD overlay districts in their downtowns.

In February, 2018 the Brockton City Council approved spending the \$10 million the city received from the state for a new downtown parking garage. The city is chipping in \$2 million as part of the effort to spur development and revitalize the downtown area. The municipal garage is being constructed in June 2019 on Petronelli Way and will feature more than 400 parking spaces.

OCPC provided technical assistance to the City of Brockton on the successful application of the City of Brockton for Transformative Development Initiative (TDI) designation from MassDevelopment. Brockton is receiving enhanced technical assistance, real estate services and equity investments in real estate to support local visions for redevelopment and to catalyze and leverage investments and economic activities. The City of Brockton Downtown Gateway District will be a national example of successful TOD redevelopment. It will be a pleasant, walkable neighborhood with shops, restaurants, offices and residences for all income levels.

What is OCPC's role?

OCPC will furnish guidance and technical assistance to communities in our region in creating TOD districts, inclusionary zoning and best land management practices that encourage open space and avoid sprawl.

GOAL-L: ENCOURAGE THE CREATION OF LOCAL ENERGY SOURCES FOR BOTH EMERGENCY AND LONG TERM USE AND SUPPORT THOSE COMMUNITIES WITHIN THE OCPC REGION CONSIDERING THE FORMULATION OF INDEPENDENT LOCAL ENERGY UTILITIES. SUCH VENTURES INCLUDE BUT ARE NOT

LIMITED TO: SOLAR POWER, WIND ENERGY, FUEL CELLS, GEOTHERMAL ENERGY, NUCLEAR ENERGY, NATURAL GAS FIRED COMBINED CYCLE ELECTRIC GENERATING PLANTS AND MUNICIPAL AGGREGATION.

OBJECTIVES (Long Term): To make available alternative emergency and supplementary sources for electrical energy allowing for interconnection with area transmission grid systems where possible.

QUALITATIVE MEASUREMENT: Continue efforts to work with project proponents to implement these projects

QUANTITATIVE MEASUREMENT: Determine the economic impact of the construction of local independent energy sources.

EVALUATION CRITERIA: Number of OCPC communities exploring/implementing local energy sources/zoning

1. 4 or more annually (Excellent)
2. 3-2 annually (Good)
3. 0-1 annually (Needs Improvement)

EVALUATION RESULTS

	<u>Number of Communities Planning/Implementing Alternative Energy Sources/Zoning</u>
2011-2012	4
2012-2013	2
2013-2014	3
2014-2015	3
2015-2016	1
2016-2017	9 (Municipal Aggregation)
2017-2018	0
2018-2019	0

FINDINGS: OCPC will provide guidance to member communities involved in or wishing to be involved in creation of local alternative energy resources and zoning that allows them and regional purchasing of electric power (Municipal Aggregation).



Solar and wind power collection devices

Abington:

Town meeting voters approved a solar siting bylaw at spring, 2015 Town meeting. A solar array is planned for the new Abington middle/high public school.

Avon:

Town meeting voters have approved allowing the construction of wind turbines on town property, though none are currently planned.

Bridgewater:

In 2007, the Commonwealth of MA Bridgewater Corrections Complex installed a 1.4 megawatt Gas Turbine Cogeneration System that supplies steam and electricity to the facility. A 135-kilowatt solar field was installed at the facility in 2014. The Bridgewater Town Council in January 2013 unanimously approved a payment-in-lieu of taxes agreement with Enfinity America Corp. to develop a 3-megawatt solar array project on Curve Street. 15,000 solar panels are proposed for the site. Two other solar projects have been proposed in Bridgewater. The Massachusetts Bay Transportation Authority plans to build a wind turbine on an abandoned MBTA owned rail line that was used to deliver coal to the Commonwealth of MA corrections complex.

Brockton:

In October 2006, the City of Brockton completed the Brockton Brightfield, a 425-kilowatt (kW) photovoltaic (PV) solar energy system located on a 3.7 acre environmentally remediated brownfield. At the time of completion, the plant was the largest solar energy solar energy plant in New England and the largest brightfield – an idle remediated “brownfield” transformed into a solar generating station – in the nation.

This plant generates an estimated 535 Megawatt hours (MWh) of electricity annually, enough energy to power approximately 71 homes.

Massasoit Community College installed 1,760 solar panels on five Brockton campus buildings with potential savings of 453,615 kW in 2013.

The City of Brockton Public Schools have installed a 2.64-kilowatt solar array at Brockton High School and a 36.43-kilowatt solar array at the Mary E. Baker Elementary School.

A privately-funded 350-megawatt, natural gas fired combined cycle electric generating plant in the Oak Hill Way Industrial Park in Brockton has received an 8 to 0 vote by the state's Energy Facilities Siting Board to proceed with construction. It is estimated that the \$350,000,000 project will employ 300 construction workers over a two-year period. Cooling water will be supplied from a portion of the purified effluent now being wasted from the City's adjacent Wastewater Treatment Plant. Federal and State regulatory authorities have confirmed that the design, operation and maintenance of the Brockton Clean Energy power plant meets or exceeds the strict standards governing all safety, health and environmental issues. As of June 2019, the plant has not been constructed. Plans for it are still under review.

Duxbury:

A 600,000-kilowatt solar farm on the capped landfill on Mayflower Street was installed in 2014.

East Bridgewater:

A 2.45-megawatt solar field was installed in 2014.

Easton:

Spring Town Meeting in 2011 approved a zoning change to create a solar photovoltaic overlay zoning district that includes the closed town landfill, town owned water department land and land at the Southeastern Regional Vocational High School.

In 2012, the Easton Water Division installed a 50kW solar photovoltaic system at Pumping Station Number 2 behind the David Ames Clock Farm on Route 138. Extra electricity generated by the solar panels is sold to the grid. This project was funded from \$185 million in federal stimulus dollars awarded to Massachusetts by the U.U. Environmental Protection Agency.

In 2014, the Town of Easton completed the Prospect Hill Landfill Solar Photovoltaic Project. It generates 1.86 megawatts of power

In January 2014, Solect Energy built a 2-megawatt solar photovoltaic system on 15 acres of land being leased from Stonehill College. Power from this solar field is expected to meet 20% of Stonehill's energy needs.

Halifax:

There is a 2.5-megawatt solar field on Monponsett Street. It was installed in 2015.

Hanover:

Hanover has a Wind Energy Facilities Zoning Bylaw. The construction of any wind turbine in the Town of Hanover is permitted in all zoning districts, subject to the issuance of a Special Permit and provided the proposed use complies with town zoning dimensional regulations and Site Plan Approval. A town owned 225-kilowatt wind turbine is in place at the Town of Hanover Pond Street Water Treatment Plant. Power from the turbine is used to generate electricity for the water treatment plant.

Kingston:

Kingston has a Green Communities Wind Turbine Overlay District enacted by Town Meeting in April 2007, a Large-Scale Ground-Mounted Solar Photovoltaic Installation Overlay District enacted by Town Meeting in April 2010 and Small Wind Energy Systems zoning enacted by Town Meeting in April 2011. In 2012, the Town of Kingston erected a two-megawatt wind turbine on the capped town landfill. Solar panels are planned for the site. In 2012, Kingston landowner Mary O'Donnell erected three, two-megawatt wind turbines on a 105-acre site she owns next to the MBTA Commuter Rail Station. Together these generators produce enough electricity for up to 10,000 households, approximately twice the number of existing households in Kingston. In 2012, the Massachusetts Bay Transportation Authority (MBTA) erected a 100-kilowatt wind turbine at their Kingston Commuter Rail layover facility.

Pembroke:

Pembroke Landfill Solar Project was built and is operated by the companies Power Options and Sun Edison. The two megawatt project generates enough electricity to produce 80% of the power for public buildings. Sun Edison had a one year to furnish, install and get the project up and running according to the contract with the Town of Pembroke.

Plymouth:

The Plymouth County Commissioners have reviewed the engineering and finance details of a proposal offered by a consortium of public and private entities in response to a request from the Plymouth County Commissioners for the design and installation of wind turbines and/or solar photovoltaic devices on three county-owned parcels. The sole proposal under consideration by the Commissioners was submitted by a consortium of public and private entities, including construction firm JK Scanlan, Solaya Renewable Energy, Atlantic Renewable Energy Services, Sustainable New Energy, groSolar, and the University of MA/Dartmouth. This project is currently on hold. It includes:

- 96,000 square feet of Solar Photovoltaics spread between the lawn of the Registry of Deeds building off Obery Street in Plymouth and a parcel of land adjacent to Bridgewater State Prison.
- Three Ghodawat G160 wind turbines on the “Wood Lot” off Camelot Drive in Plymouth.
- A LEED certified 15-acre Sustainability Complex providing educational, museum, and business incubator space.

In addition to the above projects, the Plymouth County Commissioners have filed plans for 2-4 MW solar project on 20-30 acres off Long Pond Road/Caleb Drive. This project has not yet been constructed

- A 65 kW solar field has been installed off Rocky Pond Road.
- A 5.5 MW solar field has been installed off of Old Sandwich Road
- A 5 MW solar field has been installed off of Camelot Road.
- A 65 kW solar field has been installed off Rocky Hill Road.
- A 5.5 MW solar field has been installed off Old Sandwich Road.
- A 5.35 MW solar field has been installed off Camelot Road.
- A 500 kW solar field has been installed at the Ellis Haven Campground off South Meadow Road.
- A 6 MW solar field has been installed off Old Sandwich Road.
- A 650 kW solar field has been installed off Rocky Pond Road.
- Mass DOT has installed a 562 kW solar field off Route 3 at Exit 5.

A 650 kW solar field is located off Armstrong Road.

The Balboni Company erected a 1.5 megawatt wind turbine in the Camelot Industrial Park in Spring 2012. This was the first electric power generating wind turbine built in Plymouth.

Other solar projects proposed and under review in Plymouth include:

- A 5.55 MW project on 35.2 acres of land at the Redbrook Project off River Run.
- A 1.3MW project on 4.6 areas of land off Billington Street/Black Cat Road.
- A 3 MW project on 24.6 acres of land off Herring Pond Road.
- A 5.8 MW project on 21.5 acres of land off Kristen Road and Parting Ways.
- A 500 kW project on 4 acres of land at 969 Federal Furnace Road.
- A 1.25 MW project on 5.5 acres of land off Federal Furnace Road.

The U. S. Department of Transportation, Federal Transit Administration approved \$2.5 million in competitively selected Transit Investments for Greenhouse Gas and Energy Reduction (TIGGER) funds to the Massachusetts Bay Transportation Authority (MBTA) for the installation of two renewable wind energy generation turbines to be located at the Kingston Layover Facility at the terminus of the Kingston/Plymouth Commuter Rail line and the Bridgewater Station on the Middleborough/Lakeville Commuter Rail line. The

completed wind energy equipment consists of a 100 kW turbine located at the Kingston layover facility. A 600 kW turbine proposed to be located at the Bridgewater station has not yet been built. The MBTA is the single largest electricity consumer in MA, consuming nine percent of all electricity consumed in the state. With the installation of renewable wind energy turbines such as the one installed in Kingston and proposed in Bridgewater, the MBTA is able to generate power to operate its own facilities or return power back to the regional grid, thereby providing clean energy to the region. Both facilities consume electricity to support the plugging in of trains for storage, maintenance and passenger waiting facilities. The annual electricity use at both facilities is 2,815,738 kWh. Not only will this investment allow the MBTA to save 75% of energy consumption at these locations, but also, in virtue of the high visibility placement of the wind turbines at major transportation nodes, will serve as a model for green technologies region wide. The wind turbine at the Kingston layover facility was built in Spring, 2012.

The Entergy Pilgrim Station 670 megawatt Nuclear Power Plant in Plymouth closed on May 31, 2019 with a loss of 650 jobs. OCPC is working with the Town of Plymouth to deal with the socio-economic impacts of this closure.

Plympton:

In 2012 Plympton Town Meeting approved a Solar Facilities Zoning Bylaw. In 2013 Borego Solar Systems built a 5.7 megawatt solar field off of Brook Street. It consists of 23,670 solar panels. Plymouth Public Schools purchases energy from the project.

Stoughton:

The Town of Stoughton is proposing to install a 1.1-megawatt ground mounted solar photovoltaic solar facility on the Stoughton landfill. The ground mounted solar array will occupy approximately 4.16 acres.

West Bridgewater:

In 2013, a 2-megawatt solar field was built on 9 acres of land at 265 North Main Street. The facility is located on the site of the former Jay's Driving Range.

Whitman: The Whitman Hanson High School has a 49.61-kilowatt solar array.

Region Wide: Municipal Aggregation.

Municipal Aggregation is the method by which a municipality or a group of municipalities can buy electric power on behalf of consumers within their borders, which is allowed by Massachusetts state law. OCPC has the Old Colony Municipal Aggregation Committee, which is working to implement this initiative with OCPC member communities. OCPC staff has worked with OCPC member communities to implement this project, which results in lower electric rates for consumers including businesses, which supports economic development. OCPC communities actively working on implementing this agreement include: Abington, Easton, Halifax, Kingston, Pembroke, Plymouth, Plympton, Stoughton and West Bridgewater.

GOAL M: SUPPORT THE DEVELOPMENT OF ENHANCED TELECOMMUNICATIONS INFRASTRUCTURE IN OUR REGION

OBJECTIVES (Long Term): Encourage private sector initiatives to bring high-speed access to telecommunications throughout the region to encourage economic development and to allow existing business access to this infrastructure to remain competitive in a world economy.

QUALITATIVE MEASUREMENT: Work with service providers and communities to get this infrastructure installed.

QUANTITATIVE MEASUREMENT: Determine the economic impact of the installation of this infrastructure.

EVALUATION CRITERIA: Number of OCPC communities with advanced infrastructure

1. 5 or more (Excellent)
2. 4-3 (Good)
3. Less than 2 (Needs Improvement)

EVALUATION RESULTS

FINDINGS: As of June 2019, the following communities have Verizon FiOS fiber optic internet/TV/phone: Abington, Easton, Kingston, Plymouth, and Stoughton. Comcast offers Xfinity fiber optic internet/TV/phone to all OCPC communities.

CapeNet is a broadband network. It extends from Cape Cod to Brockton, Boston and Providence. It passes through several OCPC communities including Plymouth, Kingston, Plympton, Halifax, Bridgewater, East Bridgewater and Brockton. It is the only provider with an all fiber network with Tier 1 providers.

OCPC is working with the City of Brockton and other communities to obtain high-speed Wi-Fi and broadband communication service to downtown areas in our region.



OpenCape cable laying machine

GOAL N: ENCOURAGE THE BRANDING OF THE REGION TO SUPPORT ECONOMIC DEVELOPMENT

OBJECTIVES: (Long Term) To create a sense of identity in the region that could be marketed to retain and attract businesses to our region.

QUANTITATIVE MEASUREMENT: Work with Chambers of Commerce, Economic Development entities and area colleges/universities to create this entity

QUANTITATIVE MEASUREMENT: Determine the economic impacts of this entity

EVALUATION RESULTS

FINDINGS: The Metro South Chamber of Commerce has implemented a branding strategy for the Metro South region. OCPC worked with the Metro South Chamber of Commerce on this project.

GOAL O: ENCOURAGE COMMUNITIES TO LOOK AT OVERLAY DISTRICTS TO ENCOURAGE DEVELOPMENT

OBJECTIVES: (Long Term) To identify various resources such as Streamlined Permitting to achieve that goal.

QUALITATIVE MEASUREMENT: Continue to work with communities on these projects

QUANTITATIVE MEASUREMENT: Number of communities who have created these overlays

EVALUATION CRITERIA: Number of OCPC communities with overlay districts that encourage development.

1. 6 or more (Excellent)
2. 4-5 (Good)
3. Less than 3 (needs improvement)

FINDINGS: As of March, 2019 six OCPC communities have overlay districts that encourage economic development.

In 2019, District Staff is working with the City of Brockton on enacting Chapter 43D Expedited Permitting for the Brockton Furniture site at 93 Centre Street in downtown Brockton.

GOAL P: ENCOURAGE THE DEVELOPMENT OF PUBLIC WATER SUPPLIES AND WASTEWATER TREATMENT CAPACITY IN THE REGION.

OBJECTIVES: (Long Term) To support the expansion of public water supplies and wastewater treatment capacity in the region.

QUALITATIVE MEASUREMENT: Continue to work with communities and other entities on these projects.

QUANTITATIVE MEASUREMENT: Number of projects being worked on.

EVALUATION CRITERIA: Number of OCPC communities working on these projects/regional projects.

- 6 or more (Excellent)
- 5-4 (Good)
- Less than 3 (Needs improvement)

FINDINGS: The City of Brockton with state and federal assistance invested \$100 million to overhaul the City's wastewater treatment plant which increased its capacity from 18 million gallons per day to 20.5 million gallons per day. In 2019 the City plans to spend \$7.8 million to upgrade the plant to allow it to comply with a new limit for discharging nitrogen into the Salisbury River. The City of Brockton has excess wastewater treatment capacity. The City of Brockton has excess water capacity. In

January 2017, The Town of Abington reached an agreement with the City of Brockton to send an additional half-million gallons of wastewater per day to the City of Brockton Advanced Wastewater Treatment Facility. The Town of Bridgewater has received funding to build a new water treatment plant. The Town of Hanover is planning to upgrade its public water supply in order to reduce the amount of organic material in the water. The Town of Kingston has completed a variety of upgrades (process and non-process) to its wastewater treatment plant. In the Town of Easton, as part of the plan to build new housing at the former Ames shovel factory, an on-site wastewater treatment plant capable of treating 50,000 gallons of wastewater per day has been built. A on-site wastewater treatment plant capable of treating 160,000 gallons per day has been built as part of the Quset development project in Easton. The Town of Stoughton will upgrade for DEP compliance the Pratts Court Water Treatment Plant.

Staff participated in the Taunton River Watershed Management Plan. The Taunton River Watershed covers more than 500 square miles and includes 40 communities. OCPC is a member of the Steering Committee. The second phase of the Taunton River Watershed Management Plan was completed in December 2010. The first phase collected data, developed a water budget model, assessed the watershed, did public outreach and developed an overall plan. The second phase saw the launching of code reform projects in non-district towns as well as six demonstration projects across the region to illustrate innovative storm water and wastewater management, as well as habitat restoration projects. Projects are located on the campus of Bridgewater State University, East Bridgewater and the non-district communities of Dighton, Taunton, Middleborough and Lakeville. Funding is being sought for phase three of the project.

District staff, the City of Brockton and the MA Department of Environmental Protection (DEP) have conducted the Upper Taunton River Regional Wastewater Evaluation Project, which encompasses 14 communities and 8 District communities. It is a two-phase effort to solve growing wastewater needs. It is seeking solutions, which will maximize use of existing and potential capacity of major wastewater treatment plants in Brockton and the non-district communities of Taunton and Mansfield while disposing of treated wastewater close to its origins. The first phase reviewed data and identified options. A second phase is examined these options in detail through a comprehensive Environmental Notification Form to recommend a set of solutions. The study involves the district communities of Abington, Avon, Bridgewater, Brockton, East Bridgewater, Easton, West Bridgewater, Whitman and the non-district communities of Foxboro, Mansfield, Norton, Raynham, Sharon and Taunton. This effort follows several years' efforts by the Old Colony Planning Council Regional Wastewater Planning Committee. It is complimented by the separate, more habitat, water quality and water budget orientated Taunton River Watershed Study of more general issues in the whole basin, these two studies share findings.

In February, 2017 the Town of Bridgewater received \$6.25 million in funding from the Commonwealth of Massachusetts Executive Office of Energy and Environmental Affairs State Revolving Loan Fund to build a new water treatment and filtration plant. This plant

will reduce levels of iron, manganese and other minerals from four town wells, which supply a little less than one half of the drinking water for Bridgewater residents. It is scheduled to be completed and on line by 2019. It will join a previously completed treatment plant, which treats water from the towns' six other water wells.

The Town of Kingston built a manganese removal water treatment facility to treat water from the existing 1,000 gallons per minute (gpm) pumping station in winter/spring 2014. The facility is located on Town owned land adjacent to the existing pumping station. The project included the construction of a 4,200 square foot (sf) slab on grade, masonry structure with brick siding and a saltbox roof. The overall height of the proposed structure is 30 feet. Solar panels are mounted on the south facing side of the roof (2,000 sf) and ground mounted in an area next to the facility (3,000 sf) for a combined power of 50kW. The work includes an additional 0.165 acre of paved driveway. Filter backwash residuals handling lagoons have been constructed including two line lagoons and one infiltration basin, all work is located outside of the 100-foot wetlands buffer zones. On site storm, water is handled through a bio retention basin and infiltration basin.

In Easton, Spring Town Meeting in 2015 voted to create the Queset Commercial District. To accommodate the anticipated development, Town Meeting voted to pay \$3 million to get 50,000 gallons of daily wastewater treatment capacity from a public-private facility located on the Queset area and to spend \$2.8 million to build sewer lines. Town Meeting also voted to spend \$1.3 million for sewer lines in the Five Corners District and tying into the out of District Mansfield sewer system. In 2018, the first phase of the Five Corners sewer project, the construction of a sewer line from Mansfield to the Avalon Bay project in Easton was completed. The second phase of the project, installing sewers from Roberts Drive along Route 106/Foundry Street to the Five Corners area is scheduled to begin in Summer, 2019 and be completed in 2020.

The Town of Hanover is making improvements to the town water system to improve water quality.

The Town of East Bridgewater Special Town Meeting on December 12, 2016 voted to approve a total of \$570,000 in spending for construction and engineering costs to build a sewer line extending from a wastewater treatment plant built to serve the East Bridgewater Jr./Sr. High School northerly along Bedford Street to Spring Street to accommodate expanded business activity in the town center. This line has been built.

In 2019, District Staff is working with the Town of Hanson on a Public/Private Sewer District to promote commercial development near the Hanson MBTA Commuter Rail Station.

GOAL Q: ENCOURAGE INVESTMENTS TO GROW JOBS IN THE LIFE SCIENCES

OBJECTIVES: (Long Term) To support firms engaged in the life sciences.

QUALITATIVE MEASUREMENT: Encourage Life Sciences Firms to move into this area

QUANTITATIVE MEASUREMENT: Number of communities in region being ready for these firms.

EVALUATION CRITERIA: Number of OCPC Communities ready for Bio-Tech firms.

1. 4 or more communities (Excellent)
2. 3-2 communities (Good)
3. Less than 1 (Needs Improvement)

FINDINGS: The City of Brockton, Abington, West Bridgewater and Plymouth and Union Point (former South Weymouth Naval Air Station) have been recognized by the MA Biotechnology Council as communities welcoming biotechnology firms with favorable zoning and infrastructure.

Plan for Life Sciences and Bio Tech Campus in Brockton

On March 28, 2019 the state awarded the City of Brockton \$145,000 in site readiness funds to form a master plan for the development of a life sciences campus on land next to Good Samaritan Medical Center.

GOAL R: ENCOURAGE EXPANDING HOUSING INVESTMENTS AND HOUSING CHOICES.

OBJECTIVES: (Long Term) To support the expansion of housing availability for our present and future workforce.

QUALITATIVE MEASUREMENT: Encourage housing development in our region.

QUANTITATIVE MEASUREMENT: Number of new building permits 2008-2009 in OCPC region.

EVALUATION CRITERIA: Number of housing permits granted in past year.

1. 100 permits or more (Excellent)
2. 80 or less (Good)
3. Less than 80 (Needs Improvement)

FINDINGS: The number of Single Family building permits in the OCPC region in 2015 totaled 643 versus 641 in 2014. From 2007 to 2015, the region reached a peak of 791 single-family housing permits in 2009. It is important to note that not all structures granted building permits have actually been built. The current recession recovery phase and great supply of existing housing stock has reduced new housing construction in the region.

The City of Brockton has the highest foreclosure rates of homes in Massachusetts. Steps are being taken to deal with this issue. The City of Brockton has a Task Force on Housing and Foreclosure Prevention that is comprised of city officials, local banks and non-profit organizations. Brockton Housing Partnership, a consortium of 13 local banks, credit union, and non-profit agencies developed a foreclosure hotline (508) 586-6080 for homeowners to call and leave a message. A staff member who speaks the homeowner's language (English, Spanish, Portuguese and French) returns the message and the homeowner is referred to the counseling or financial services programs.

The Buy Brockton program, a public/private partnership between the City of Brockton, Brockton Housing Partnership and local businesses promote home ownership in the City of Brockton. Through a group of participating partner lenders, the Buy Brockton Mortgage Program offers financing up to 100% of the purchase price at a below-market fixed rate for one unit properties being sold as a result of foreclosure, short sale, or deed-in-lieu of foreclosure in the City of Brockton.

The Town of Plymouth Redevelopment Authority provides on going First Time Home Buyer programs, and administers variety of Affordable Housing Lottery Services for rental and ownership units in Plymouth and throughout the region.

City of Brockton: Residences at Centre and Main and Enterprise Building
OCPC worked with the City of Brockton in invest in this major downtown revitalization project. Construction is complete. This Trinity Capital project includes 52,000 square feet of commercial/office space, 10,200 square feet of retail and artist's exhibition space, 215 units of housing and 544 parking spaces.

City of Brockton Downtown Housing Development Zone: OCPC worked with the City of Brockton to successfully obtain State designation of the Downtown Brockton Housing Development Zone (HDIP). The objectives of the Downtown HDIP Zone and Plan is to leverage public and private investment to achieve the Commonwealth's goals to increase residential growth, expand the diversity of housing stock, support economic development and promote neighborhood stabilization.

District staff is working with the City of Brockton on the Brockton Housing Strategy. District staff worked on Housing Production Plans for Abington, Avon, Bridgewater, Halifax, Pembroke, Plymouth, Plympton, Stoughton and Whitman. District staff is working with the Town of Pembroke on zoning bylaws to promote housing development.

GOAL S: ENCOURAGE ECONOMIC RESILIENCY IN OUR REGIONAL ECONOMY

OBJECTIVES: (Long Term) Economic Diversification is both a recovery strategy and a tool for communities to increase their resiliency from economic downturns and future disasters by promoting entrepreneurship and small business within our area, (Goal C)

improving and supporting the local workforce, (Goal H) encouraging regional clusters, increasing export activity and economic downturn and disaster preparedness for businesses in our region.

QUALITATIVE MEASUREMENT: Promote entrepreneurship and small businesses, improving, building upon the local workforce, encouraging regional clusters, increasing exports and having economic downturns, and disaster preparedness plans in place.

QUANTITATIVE MEASUREMENT: Show support of entrepreneurship and small businesses, improving and building upon the local workforce, encouraging regional clusters, supporting exports and demonstrating economic downturn and disaster preparedness plans.

EVALUATION CRITERIA: Plans to support entrepreneurship and small businesses, efforts to improve and build the local workforce, economic downturn and disaster preparedness plans in place.

- 1.4 or more (Excellent)
2. 3-2 (Good)
3. Less than 1 (Needs Improvement)

FINDINGS: OCPC EDD Partners SEED Corporation and the Plymouth Area Chamber of Commerce provide workshops and training for entrepreneurs and small business. OCPC EDD partners MassHire Greater Brockton Workforce Board and MassHire Greater Brockton Career Center support and work at improving our regional workforce. The OCPC CEDS Committee, and its economic development partners in the region support entrepreneurship and small businesses, improving and building upon the local workforce, support exports, support and encourage business clusters and have worked with local authorities on disaster and climate change preparedness plans for our region.

The Old Colony Planning Council Hazard Mitigation Plan has been adopted by fifteen OCPC member communities: Abington, Avon, Bridgewater, Brockton, East Bridgewater, East Bridgewater, Easton, Halifax, Hanson, Kingston, Pembroke, Plymouth, Plympton, Stoughton, West Bridgewater and Whitman. Duxbury and Hanover, who belong to both OCPC and MAPC, have adopted hazard mitigation plans through MAPC. The term “Hazard Mitigation” describes actions that can help reduce or eliminate long-term risks caused by natural hazards or disaster, such as floods, hurricanes, wildfires, tornadoes and earthquakes. The implementation of such hazard mitigation actions now by state and local governments means building stronger, safer and smarter communities that will be able to reduce future injuries and future damage. Hazard mitigation plans are developed before a disaster strikes. The plans identify community policies, actions and tools for long-term implementation to reduce risk and potential for future losses. Adopted, implemented and maintained on an ongoing basis, these plans will lessen the impacts associated with hazard events in the Old Colony Region.

OCPC has participated in Brockton's, Easton's Kingston's and Plymouth's ongoing Municipal Vulnerability Preparedness Program preparations.

The Towns of Duxbury and Plympton have a joint Police/Fire dispatching center in Duxbury. They have signed an Inter Municipal Agreement (IMA) to run this facility. OCPC staff assisted Duxbury in applying for a \$160,000 grant they received from the Commonwealth of Massachusetts 911 Department to purchase new communications equipment to make this possible. The new center has the capability to handle up to 4 communities. OCPC staff assisted in obtaining \$25,000 in funding from the state for a study to consider the formation of a Regional Secondary Public Safety Answering Point (PSAP) regional dispatching center for the towns of Bridgewater, East Bridgewater and West Bridgewater. This study was completed in June 2014.

District Staff completed a Climate Change Transportation Impact Study in FFY 2010. The study is available on the OCPC webpage on the Reports page. This study, influenced by the effects of the March 2010 rainstorms that caused flooding throughout our region addresses at-risk areas in our region and makes recommendations for preventive measures to mitigate natural disasters caused by the effects of climate change and the range of possible effects that extreme weather events could have on the transportation infrastructure of our region. The study also discusses ways that the Old Colony Planning Council can reduce the effect of climate change. Related studies conducted by OCPC include the 2013 Town of Halifax Storm Water Mapping assistance Project, the 2012 Roadway Drainage and Run Off Study and the Upper Taunton River Regional Wastewater Evaluation Project, which addresses wastewater issues in the Upper Taunton River Basin.

To date, Bridgewater, Brockton, Easton, Halifax, West Bridgewater and Plymouth have completed the Economic Self-Assessment Tool (EDSAT) offered by the Dukakis Institute at Northeastern University. The EDSAT is a self-assessment tool for helping communities analyze their capacity for economic development. With over 250 questions, this rigorous examination helps community officials explore their community's economic strengths, weaknesses, opportunities and threats across ten assessment categories. Local officials receive specific feedback in each assessment category, and they can then use the results in their community's economic development strategy. OCPC has provided technical assistance to OCPC communities to help them complete EDSATs.

The Commonwealth of Massachusetts offers Coastal Resilience and Coastal Pollution Programs. In 2018 the following projects in the OCPC area were funded:

Town of Duxbury

Duxbury Beach Reservation, Inc.: Award amount: \$36,340

The Duxbury Beach Reservation will design and permit a 1,700 foot long dune restoration project between the first and second crossovers on Duxbury Beach to strengthen the resilience of the barrier beach dune system and protect the Duxbury Beach access road.

Town of Kingston

Gray's Beach Park Coastal Restoration, Retreat and Site Improvement Project: Award amount: \$497,725

The Town of Kingston restored Gray's Beach to a more natural environment by replacing a deteriorating stone revetment with a marsh and dune system and relocation a existing concession and restroom facility farther inland to accommodate future flooding, erosion and seal level impacts.

Other Measures

Seawall Restoration: Town of Duxbury: At the March, 2019 Town Meeting Duxbury residents agreed to spend \$5 million to rebuild a portion of the Duxbury Beach seawall that was damaged by Winter Storm Riley and has been temporarily repaired. Duxbury has received a \$1 million state grant and a \$2 million low interest loan towards the cost of the project. The town is also applying for money from the Federal Emergency Management Agency. The work entails replacing failing sections of the 65-year-old wall and building revetment to protect the remaining section. According to town officials, without the improvements, the wall would continue to deteriorate and cause erosion to private property and to public access roads leading to Duxbury Beach.