2014

5,985 Businesses

Increased Global Demand

100K Workers by 2015

2,000 Employers Surveyed

MASSACHUSETTS CLEAN ENERGY INDUSTRY REPORT

88,372 Jobs

Robust Innovation Ecosystem

2.5% of the state's total GSP

Strong Local Consumer Markets

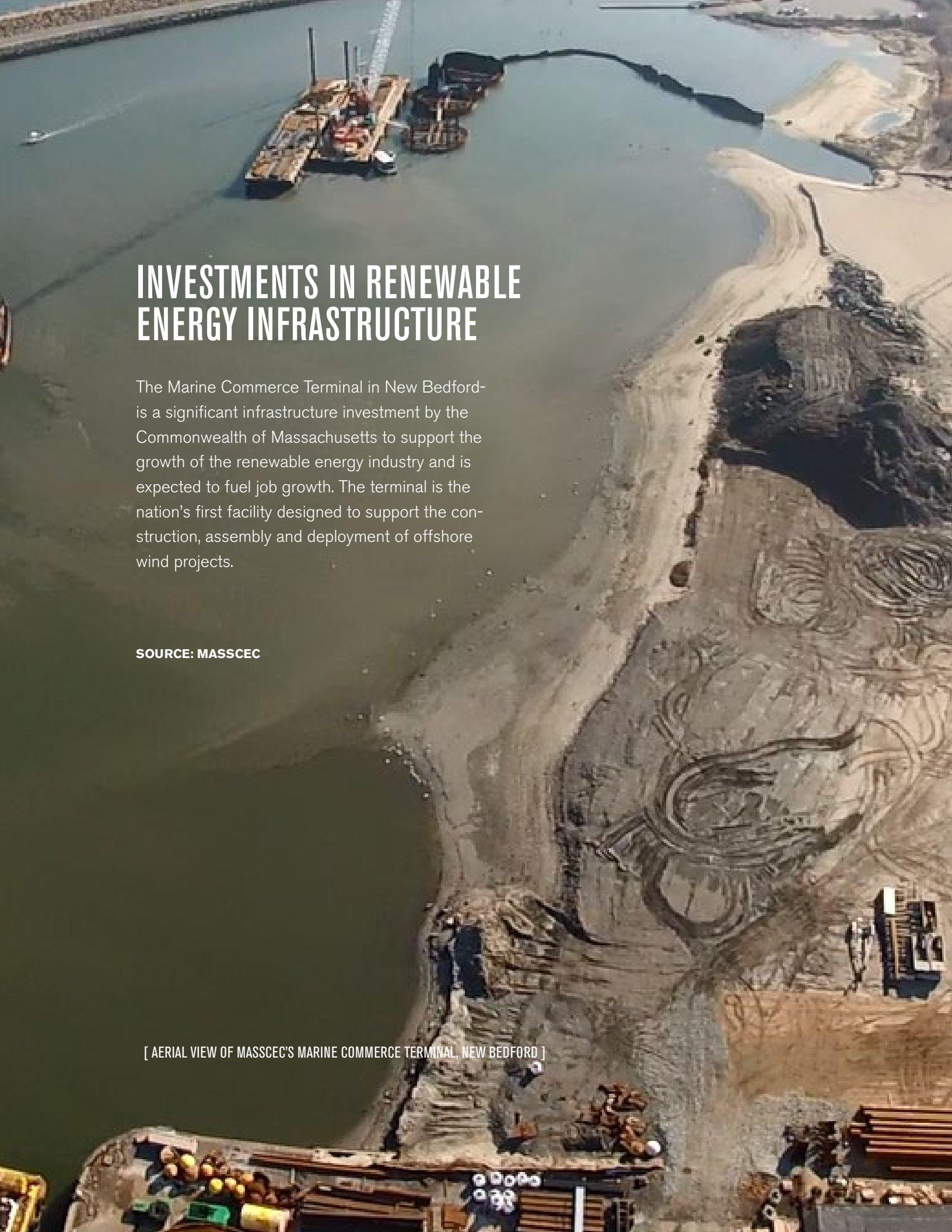
$10 Billion Industry

2014

INVESTMENTS IN RENEWABLE ENERGY INFRASTRUCTURE

The Marine Commerce Terminal in New Bedford- is a significant infrastructure investment by the Commonwealth of Massachusetts to support the growth of the renewable energy industry and is expected to fuel job growth. The terminal is the nation's first facility designed to support the construction, assembly and deployment of offshore wind projects.

SOURCE: MASSCEC

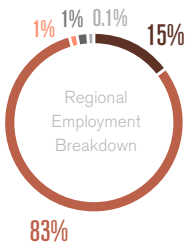


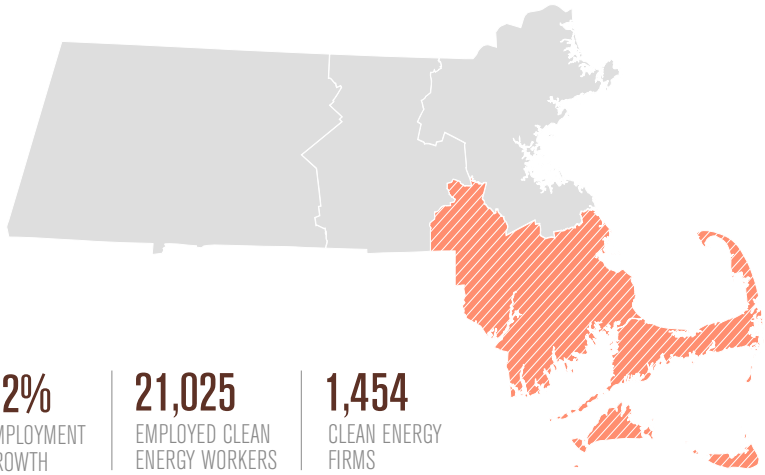
[AERIAL VIEW OF MASSCEC'S MARINE COMMERCE TERMINAL, NEW BEDFORD]

SUSAN NILSON, 43

LIVES IN: **Marion**
WORKS @: **CLE Engineering**
ROLE: **Civil Engineer, President**

SOUTHEASTERN MASSACHUSETTS





22% EMPLOYMENT GROWTH

21,025 EMPLOYED CLEAN ENERGY WORKERS

1,454 CLEAN ENERGY FIRMS

Renewable Energy | Energy Efficiency | Alternative Transportation | Greenhouse Gas Mgmt | Other

21.6% MANUFACTURING
7.3% ENGINEERING & RESEARCH
38.1% SALES & DISTRIBUTION
29.1% INSTALLATION
1.3% FINANCE, LEGAL, ETC.
2.6% OTHER

When deciding what type of engineering to focus on, Susan Nilson was drawn to civil engineering because of the different opportunities it presented. Recently, one of those opportunities was an interesting challenge – help design the Marine Commerce Terminal in New Bedford, the first facility in North America designed to support the construction, assembly and deployment of offshore wind projects. "It's such a unique project," Nilson said. "It's something I'm proud to be a part of."

Nilson, 43, played an integral role in the design and construction of the first-of-its-kind project through her role as President of CLE Engineering, which is headquartered in Marion and has offices across the country. "Our firm was the designer of the structure for the entire port. I worked to make sure calculations were correct, all the components were coming together, coming up with alternatives and vetting those out – a lot of research was done to prepare for this project," she said. In the end, they decided on steel, cellular coffer-dams to form the retaining wall – a design that could support the needs of the budding offshore wind industry in Massachusetts.

Nilson earned a bachelor's degree of science in civil engineering from University of Massachusetts Amherst and a master's degree of science in civil engineering from the University of Washington in Seattle. Though the New Bedford project is the first of its kind in North America, it isn't the first foray into clean energy for CLE Engineering. Previous endeavors for the company, which has roughly 50 employees working on projects across the country, have included things like the interconnection and transmission of electricity generated from renewable energy sources.

For Nilson, the excitement of working on a first-ever project is only eclipsed by the excitement of helping to launch a new U.S. industry near her Marion home. "You are rooting for New Bedford, to see something transform in your backyard," she said. "This is outstanding for the region, and especially exciting for me being a resident and business owner in this area."

About the Report

The 2014 Massachusetts Clean Energy Industry Report is the fourth annual report released by the Massachusetts Clean Energy Center (MassCEC) on the size, scope, and nature of the Commonwealth's clean energy industry.

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