

# Resilient Coastal Communities



Powering the Blue Economy: Exploring Opportunities  
for Marine Renewable Energy in Maritime Markets

April 2019



# Resilient Coastal Communities

---

Numerous applications and markets for marine energy show similarities and lend themselves to grouping. Many applications and markets displayed characteristics of being ideally suited to coastal development directly or indirectly supporting communities. These applications are grouped under “Resilient Coastal Communities” in this report. Commonalities among these applications include:

- Applications are nearshore or onshore and contribute to the resiliency of coastal communities in the face of extreme events, such as tsunamis, hurricanes, flooding, or droughts.
- Visual impacts are an important consideration in project location.
- Customers are typically more price sensitive because of a greater number of incumbent technologies capable of supplying power at competitive costs.
- Relatively easy access for installation and operations than the power-at-sea applications with more frequent maintenance intervals likely.

Within this theme, chapters are presented on seawater desalination, coastal resiliency and disaster recovery, and community-scale isolated power systems. Chapters are presented in the order of perceived relevance to marine energy as a viable near-term market.

