The ocean city of Xiamen in southeastern China is home to 3.67 million people. Surrounded by 226 km of coastline and hosting one of the largest deepwater ports in the world, over 12% of the local GDP is estimated to come from the marine economy. Several years of strong economic growth in the late 1980s and early 1990s left Xiamen severely affected by pollution and sea-use conflicts. Poor urban infrastructure, shortage of financial capacity and lack of scientific knowledge led to a number of problems including discharge of untreated wastewater from domestic sewerage and local industry. These activities threatened not only the local ecosystems, including mangroves and Chinese White Dolphins, but it also put the economic gains of the previous years at risk.

In 1994, Xiamen became a demonstration site for integrated coastal management (ICM). The effort focused on constructing wastewater collection and treatment systems and expanding coastal management in dozens of sites across the region, PEMSEA has applied integrated coastal management in dozens of sites across the region, PEMSEA has applied integrated coastal management (ICM) in East Asia to foster and sustain healthy and resilient oceans, coasts, communities and economies across the region. For almost 25 years, PEMSEA has supported its partners in achieving their sustainable development targets and shared regional vision of healthy oceans, People and Economies.

Integrated Coastal Management Sites

According to the United Nations, an estimated 67% of the world’s total gross national product comes from areas within 100 kilometers of the coastline.

Case Study: Integrated Coastal Management in Xiamen, China

The case study of Xiamen in southeastern China is home to 3.67 million people. Surrounded by 226 km of coastline and hosting one of the largest deepwater ports in the world, over 12% of the local GDP is estimated to come from the marine economy. Several years of strong economic growth in the late 1980s and early 1990s left Xiamen severely affected by pollution and sea-use conflicts. Poor urban infrastructure, shortage of financial capacity and lack of scientific knowledge led to a number of problems including discharge of untreated wastewater from domestic sewerage and local industry. These activities threatened not only the local ecosystems, including mangroves and Chinese White Dolphins, but it also put the economic gains of the previous years at risk.

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For more information, please contact:
The Executive Director
PEMSEA Resource Facility
PO Box 2500
Quezon City 1101, Philippines
Ph: +632 528 9712
E: info@pemsea.org
www.pemsea.org

Integrated Solutions

PEMSEA pioneered integrated coastal management (ICM) in East Asia. It offers an holistic approach for addressing complex coastal issues by combining governance, management, economics and co-management to foster and sustain healthy and resilient oceans, coasts, communities and economies across the region.

In addition to its Country Partners, PEMSEA works with a network of Non-Country Partners including industry associations, international development organizations, scientific institutions and regional initiatives. The United Nations Development Program and the World Bank have recognized the effectiveness of PEMSEA and developed a Medium-Term Investment Plan using the SDS-SEA framework and PEMSEA as the regional coordinating mechanism.

Partnerships

PEMSEA was built on partnerships. It is the regional coordinating institution for the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA), a marine strategy adopted by 14 countries that harmonizes national development goals and provides a framework for planning, implementing and monitoring sustainable development of coasts and oceans across the region. PEMSEA has applied integrated coastal management (ICM) in dozens of sites across the region, impacting more than 42,000 km, or 17%, of the region’s coastline and over 146 million people living in coastal and watershed areas.
PEMSEA Services

PEMSEA delivers integrated solutions to its partners through a set of service offerings designed to cater to the unique needs of local and national government, international development organizations, companies, investors and others operating in the coastal zone environment.

Knowledge Services empower local governments and other organizations by building their institutional capacity and capacity to effectively and sustainably manage coastal and marine systems.

Supporting its Advisory and Project Services, PEMSEA has developed a comprehensive set of knowledge products and capacity development programs focused on integrated coastal management (ICM) and port safety, health and environmental management.

- Libraries with an extensive collection of coastal and ocean science publications, seminars, webinars, videos, and more. PEMSEA’s libraries are designed to support the capacity of local governments to plan, design and manage their coastal and ocean resources for sustainable development.
- The 2016 Asian Declaration on ICM (ADICM), an international agreement among coastal and marine stakeholders to strengthen collaborative capacity and resource mobilization for capacity development programs focused on integrated coastal management (ICM) and port safety, health and environmental management.
- ICM Learning Centers
- Online ICM Learning Center
- Marine Science Institute of the University of the Philippines (Philippines)
- King University of Prince (Cambodia)
- Chonburi University (Thailand)
- Bogor Agricultural University (Indonesia)
- Zhou Cheng University and Xiamen University (PR China)
- Ulsan National Institute of Science and Technology
- Marine Science Institute of Thailand
- Integrated coastal management (ICM) professional certification

A Strong Regional Network

PEMSEA Network of Local Governments (PNLG)

A network of over 45 local governments from across East Asia, PNLG is designed to enhance the capacity of local governments to plan, design and manage their coastal and ocean resources for sustainable development.

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PEMSEA Network of Learning Centers (PNLC)

Launched in 2014, PNLC provides a platform for universities and scientific institutes across the region to share information and expertise in the field of coastal and marine management.

Marine Economic and Scientific Services

Offering integrated programs and services including land and sea-use zoning, marine spatial planning, ecosystem services (EWS), and integrated coastal management (ICM) and port safety, health and environmental management.

- Marine Economic and Scientific Services
- Marine Ecosystem Services
- Marine Economic Services
- Marine Scientific Services
- Marine Management Services

Regional Centers of Excellence

- Center for Marine Environmental Research and Innovative Technology (Korea)
- Marine Science Institute of the University of the Philippines (Philippines)

Clean Water

Healthy Habitats and Biodiversity

Sustainable Development

PEMSEA’s East Asian Seas Sustainable Business Network is a community of forward-thinking companies focused on building a future where ecosystems and communities benefit from sustaining the health of the region’s coasts and oceans.

Sustainable Development Goals (SDGs)

The Sustainable Development Goals (SDGs), adopted by the UN in September 2015, provide 17 goals and 169 targets to help people and the planet thrive. By 2030, the world must come together to achieve a set of 17 ambitious goals on a range of issues, from poverty eradication to climate action.

PEMSEA Non-Country Partners

Alongside its government partners, PEMSEA network includes 23 non-governmental organizations — scientific institutions, universities, foundations, and regional programs — that are working together to support the implementation of the Sustainable Development Goals for the East Asia (SDG-SEA).

- Biennialทะเลทาง
- ICM Learning Centers
- Marine Science Institute of the University of the Philippines (Philippines)

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Contributing to the Sustainable Development Goals

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Business leaders, working together to positively impact the environment, communities, and economies region-wide.”

PEMSEA Services

PEMSEA delivers integrated solutions to its partners through a set of service offerings designed to cater to the unique needs of local and national government, international development organizations, companies, investors and others operating in the coastal zone environment.

Administered by three regional networks, PEMSEA’s network includes 23 non-governmental organizations — scientific institutions, universities, foundations, and regional programs — that are working together to support the implementation of the Sustainable Development Goals for the East Asia (SDG-SEA).

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The Seas of East Asia

- Support 30% of the world’s coral reefs
- Supply 40 million tons of annual fish catch
- Produce almost 80% of the world’s aquaculture
- Host 6 of the world’s 10 busiest container shipping seaports
- Home to some of the fastest growing economies in the world

Country that have adopted the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA)

- Brunei Darussalam
- Cambodia
- China
- DPR Korea
- Indonesia
- Japan
- Laos PDR
- Malaysia
- Philippines
- RO Korea
- Singapore
- Thailand
- Timor-Leste
- Vietnam

In 1980s and early 1990s Xiamen was severely affected by poor urban infrastructure, institutional arrangements, science-based decision-making and joint law enforcement across agencies. Ultimately, Xiamen’s success was based on its integrated coastal management (ICM). The effort focused on construction of wastewater collection and treatment systems and expanding the coastal lagoon area. At the same time, a Marine Functional Zoning Scheme was developed to address sea use conflicts. The Xiamen waterfront now serves as a model for ecological approach through public participation, innovative legislation, institutional arrangements, science-based decision-making and joint law enforcement across agencies.

According to one study on ICM in Xiamen, every dollar invested at the time returned 7 dollars in economic benefits.

Partnerships

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Integrated Solutions

PEMSEA pioneered integrated coastal management (ICM) in East Asia. ICM offers an holistic approach for addressing complex coastal issues by combining governance, management, economics and cross-sectoral science-based decision-making and joint law enforcement across agencies. ICM offers a proven, practical tool for operationalizing sustainable development and the principles of ecosystem-based management (EBM) of coasts and oceans.

PEMSEA has applied integrated coastal management in dozens of sites across the region, impacting more than 40,000 km, or 15%, of the region’s coastline and over 146 million people living in coastal and watershed areas.
PESMEDIA Services

PESMEDIA delivers integrated solutions to its partners through a suite of service offerings designed to support the unique needs of local and national government, international development organizations, companies, investors and others operating in the complex coastal environment.

Knowledge Services

Knowledge Services empower local governments and other organizations by building their knowledge, awareness and capacity to effectively and sustainably manage coastal and ocean resources.

Supporting its Advisory and Project Services, PESMEDIA has developed a comprehensive set of knowledge products and capacity development programs focused on integrated coastal management (ICM) and port safety, health and environmental management.

- Library with an extensive collection of coastal and ocean oriented publications, guidelines, best practices, and case studies documenting integrated coastal management and port safety, health and environmental management.
- Data of East Asia knowledge bank, an online platform providing access to knowledge, tools and guidelines for governance, management and State of Coasts reporting.
- National and regional tracking workshops on a variety of topics including ecosystem-based management, planning, vulnerability risk assessment, ecosystem valuation, economic approaches to fisheries management, integrated river basin and coastal area management.
- ICM solution case studies from sites around the region providing insights and lessons learned from on-ground experiences with successful project implementation.
- Internships, fellowship, training of trainers and study tours programs.

Certification Services

PESMEDIA offers an internationally recognized standard to guide coastal management and variation in practice and performance.

Through certification, governments, companies and other organizations gain recognition, enhance stakeholder confidence and establish proper guidance for reducing risk and supporting sustainable investments.

For organizations looking to institute a recognized standard in coastal or marine management, PESMEDIA offers the Integrated Coastal Management (ICM) system certification, along with a professional certification for ICM practitioners.

- ICM: quality, health, and environmental management (ICM) system certification
- Integrated coastal management (ICM) system certification
- Integrated coastal management (ICM) professional certification

A Strong Regional Network

PEMSERA Network of Local Governments (PNGL)

A network of over 40 local governments from across East Asia, PNGL is designed to enhance the capacity of local governments to plan, develop and manage their coastal and ocean resources for sustainable use.

PEMSERA Non-Country Partners

Alongside its government partners, PEMSEA network includes 23 non-governmental organizations – scientific institutions, academia, and regional programs – all working together to support the implementation of the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA).

- AASAN Centre for Biodiversity
- Marine Resource Management
- Conservation International Philippines
- International Environmental Management of Enclosed Coastal Seas Centre
- Tokyo University of Marine Science and Technology
- Intergovernmental Oceanographic Commission – Coordination and Promotion Unit for the Western Pacific
- PIFCA, the global oil and gas industry association for environmental and social issues
- Integrated Coastal Management for Conservation of Nature – Asia Regional Office
- Korea Marine Environment Institute
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- Korea Institute of Ocean Science and Technology
- Northeast Pacific Action Plan
- Ocean Policy and Research Institute, Seasave Peace Foundation (SPF)
- OGP/OSDP
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PEMSERA Non-Country Partners
**PEMSEA Services**

**PEMSEA delivers integrated solutions to its partners through a suite of service offerings designed to support the unique needs of local and national governments, international development organizations, companies, institutions and others operating in the complex coastal environment.**

**Knowledge Services**
- empower local governments and other organizations by building their institutional capability and capacity to effectively and sustainably manage coastal and ocean resources.
- Supporting its Advisory and Project Services, PEMSEA has developed a comprehensive set of knowledge products and capacity development programs focused on integrated coastal management (ICM) and port safety, health and environmental management (PSHEM).
- Library with an extensive collection of coastal and ocean science materials and access to a world of information covering integrated coastal management and port safety, health and environmental management.
- Jobs of East Asia Knowledge Bank, an online platform providing access to information, tools and guidelines for governance, management and State of Coasts reporting.
- National and regional training workshops on a variety of topics including, coastal zone planning, vulnerability/risk assessment, ecosystem valuation, approaches to fisheries management and integrated river and coastal area management.
- ICM solution-case studies from sites around the region providing insights and lessons learned from on-the-ground experiences with successful project implementation.
- Intership, fellowships, tracking of trainee and study tours programs.

**Certification Services**
- provide internationally recognized standards to guide coastal management and enhance value performance in sustainability.
- Through certification, governments, companies, and other organizations gain recognition, enhance stakeholder confidence and establish proper governance for reducing risk and encouraging investment.
- For organizations looking to institute a recognized standard to guide coastal management, PEMSEA offers two certification programs covering integrated coastal management and port safety, health and environmental management.
- Quality, health and environmental management (QHSEM) system certification
- Integrated coastal management (ICM) system certification
- Integrated coastal management (ICM) professional certification

**A Strong Regional Network**

**PEMSEA Network of Local Governments (PNGL)**
- A network of 45 local governments from across East Asia.
- PNGL is designed to enhance the capacity of local governments to plan, develop and manage their coastal and ocean resources for sustainable development.
- The PNGL is a forum for local governments to discuss through coordination with local, regional and national governments, international organizations and the private sector.
- Integrated coastal management (ICM) professionals and key issues in the coastal zone.
- PNGL is a network of more than 45 non-governmental organizations and includes key issues in the coastal zone.
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**Contributing to the Sustainable Development Goals**

The Sustainable Development Goals (SDGs), adopted by the UN in September 2015, provide 17 Goals and 169 targets to end poverty, protect the planet, and ensure that all people enjoy peace and prosperity by 2030. They reflect the urgent need of the SDGs to address the interconnected challenges of sustainability.

**PEMSEA’s Youth Program**
- engages and empowers youth with a strong background in the SDGs through partnerships, including with universities and youth organizations.
- It provides an ocean-focused forum for knowledge sharing, networking and collaboration among young leaders.
- PEMSEA’s East Asian Seas Sustainable Business Network is a community of forward-thinking companies focused on building a blue economy and improving the sustainability of our oceans and coasts.
- PEMSEA’s Youth Program engages and empowers young professionals to take leadership roles in the management of coasts and oceans.
- They are working together to support the implementation of the Sustainable Development Goals (SDGs) for the East Asian Seas (SDG-SEA).

There are several synergies between the SDGs and the PNGL, in particular the SDG Leave No One Behind, SDG 4: Ensure Water and Sanitation, SDG 11: Sustainable Cities and Communities, SDG 13: Climate Action, and SDG 17: Partnerships for the Goals.

**Blue Economy and Sustainable Ocean Investment**
- Blue economy offers a practical, science-based economic model for protecting our coasts and oceans while enhancing economic development.
- PEMSEA works to promote a blue economy growth in the region through research and programs focused on understanding blue economy, including development of a common regional framework for the assessment of blue economy, implementation of coasts and ocean strategies.
- Efforts are underway to catalyze sustainable investment strategies for blue economy, including development and financing of a pipeline of sustainable investment projects across a range of other ocean economies.

**East Asian Seas Congress**
- The East Asian Seas Congress (EAS Congress) has established its reputation as the premier regional event for coasts and oceans.
- It provides an ocean-focused forum for knowledge sharing, networking and collaboration among young leaders. Staying well over 1000 participants including national and local government officials, policymakers, scientists, NGO leaders, business leaders, universities and businesses.

**PEMSEA’s East Asian Seas Sustainable Business Network**
- a community of forward-thinking companies focused on building a blue economy and improving the sustainability of our oceans and coasts.
- It provides a forum for business leaders to engage with peers and link to science and best practices for managing coastal ecosystems, reducing risks and supporting sustainable blue economy growth aligned with the latest ocean policy.

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- a community of forward-thinking companies focused on building a blue economy and improving the sustainability of our oceans and coasts.
- It provides a forum for business leaders to engage with peers and link to science and best practices for managing coastal ecosystems, reducing risks and supporting sustainable blue economy growth aligned with the latest ocean policy.
The ocean city of Xiamen in southeastern China is home to 3.67 million people. Surrounded by 236 km of coastline and hosting one of the largest deepwater ports in the world, over 12% of the local GDP is estimated to come from the marine economy. Several years of strong economic growth in the late 1980s and early 1990s led Xiamen severely affected by pollution and sea use conflicts. Poor urban infrastructure, shortage of financial capacity and lack of scientific knowledge led to a number of problems including discharge of untreated wastewater from domestic sewerage and local industry. These activities threatened not only the local ecosystems, including mangroves and Chinese White Dolphins, but also put the economic gains of the previous years at risk.

In 1994, Xiamen became a demonstration site for integrated coastal management (ICM). The effort focused on constructing of wastewater collection and treatment systems and expanding the coastal lagoon area. At the same time, a Marine Functional Zoning Scheme was developed to address sea use conflicts. The ICM approach through public participation, innovative legislation, institutional arrangements, science-based decision-making and joint law enforcement across agencies. Xiamen’s waterfront now serves as a model for ecological sustainable development and the principles of ecosystem-based management (EBM) of coasts and oceans across the region.

According to one study on ICM in Xiamen, every dollar invested at the time returned 7 dollars in economic benefits. Ultimately, Xiamen’s success was based on its integrated approach through public participation, innovative legislation, institutional arrangements, science-based decision-making and joint law enforcement across agencies. Xiamen’s waterfront now serves as a model for ecological sustainable development and the principles of ecosystem-based management (EBM) of coasts and oceans across the region.

Partnerships PEMSEA was built on partnerships. It is the regional coordinating institution for the Sustainable Development Strategy for the Seas of East Asia (SDS-SEA), a marine strategy adopted by 14 countries that harmonizes national development goals and provides a framework for planning, implementing and monitoring sustainable development of coasts and oceans across the region.

In addition to its Country Partners, PEMSEA works with a network of Non-Country Partners including industry associations, international development organizations, scientific institutions and regional authorities.

The United Nations Development Program and the World Bank have recognized the effectiveness of PEMSEA and developed their respective regional medium-term investment plans using the SDS-SEA framework and PEMSEA in the regional coordinating mechanism.

Integrated Solutions PEMSEA pioneered integrated coastal management (ICM) in East Asia. It offers an holistic approach for addressing complex coastal issues by combining governance, management, institutional and cross-sectoral arrangements, science-based and participatory approaches to operationalizing sustainable development and the principles of ecosystem-based management (EBM) of coasts and oceans.

PEMSEA has applied integrated coastal management in dozens of sites across the region, impacting more than 42,000 km or 17% of the region’s coastline and over 146 million people living in coastal and watershed areas.

We must say before and after.

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