# **Applicable measures**

**Action priority matrix**

Guidelines: Use the matrix to select measures for your strategic energy management plan. The measures are selected based on existing gaps. The list of all measures is given below by category. A description of each measure is provided in the guidance for strategic energy management plan development.



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|  | **METERS** |  | **ALTERNATIVE FUELS** |
|  | **HEATING** |  | **RENEWABLES** |
|  | **LIGHTING** |  | **EFFICIENCY** |
|  | **BUILDINGS** |  |  |

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| * “**METERS**”:

[ ]  ❶ ship environmental monitoring system[ ]  ❷ additional meters by port area and building[ ]  ❸ meters by port consumption: heating (electric and other) / water (hot and cold) / lighting / electric ventilation / fuel (benzine, diesel, gas)[ ]  ❹ installation of an online metering system | * “**HEATING**”:

 [ ]  ❶ district heating/cooling [ ]  ❷ seawater source heat pumps |
| * “**LIGHTING**”:

[ ]  ❶ LED lighting[ ]  ❷ adaptive lighting system[ ]  ❸ LED floodlights and walkway lights | * “**BUILDINGS**”:

[ ]  ❶ painting walls white/add windows[ ]  ❷ install air curtain[ ]  ❸ optimization of HVAC system[ ]  ❹ insulation[ ]  ❺ nearly zero energy building[ ]  ❻ demand-controlled ventilation system[ ]  ❼ adjusting air temperature[ ]  ❽ green roof |
| * “**ALTERNATIVE** **FUELS**”:

[ ]  ❶ onshore power supply (OPS)[ ]  ❷ LNG PowerPac[ ]  ❸ mobile LNG barge[ ]  ❹ LNG bunkering: truck to ship[ ]  ❺ LNG bunkering: shore to ship[ ]  ❻ LNG bunkering: ship to ship[ ]  ❼ LNG bunkering: local liquefaction plant[ ]  ❽ alternative fuels[ ]  ❾ automated mooring systems[ ]  ❿ hybrid power train[ ]  ⓫ hybrid power train (plug-in hybrid)[ ]  ⓬ electrification of power train | * “**RENEWABLES**”:

[ ]  ❶ obtain “green” energy[ ]  ❷ solar photovoltaics (PV)[ ]  ❸ wind power[ ]  ❹ hydropower[ ]  ❺ biogas[ ]  ❻ geothermal[ ]  ❼ microturbine |
| * “**EFFICIENCY**”:

[ ]  ❶ energy / emission target[ ]  ❷ energy management system[ ]  ❸ energy audits[ ]  ❹ smart grid applications[ ]  ❺ employee suggestion system[ ]  ❻ employee environment training[ ]  ❼ employee bus shuttle services[ ]  ❽ provision of bikes for commuting[ ]  ❾ bundling of power[ ]  ❿ cross-company use of waste heat[ ]  ⓫ heavy duty vehicle (HDV) emission control zone[ ]  ⓬ alternative HDV cooling: DTRU | [ ]  ⓭ alternative HDV cooling: grid feed[ ]  ⓮ green port fees[ ]  ⓯ slow steaming[ ]  ⓰ electrification of power train[ ]  ⓱ energy-saving tires[ ]  ⓲ tire pressure control[ ]  ⓳ regenerative drives[ ]  ⓴ emission control technologies[ ]  21 eco-driving lessons |

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| * “**HEATING**”:

[ ]  ❶ district heating/cooling[ ]  ❷ seawater source heat pumps |



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| * “**LIGHTING**”:

[ ]  ❶ LED lighting[ ]  ❷ adaptive lighting system[ ]  ❸ LED floodlights and walkway lights |



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| * “**BUILDINGS**”:

[ ]  ❶ painting walls white / add windows and skylights[ ]  ❷ install air curtain[ ]  ❸ optimization of HVAC system[ ]  ❹ insulation[ ]  ❺ nearly zero energy building[ ]  ❻ demand-controlled ventilation (DCV) system[ ]  ❼ adjusting air temperature[ ]  ❽ green roof |



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| * “**ALTERNATIVE** **FUELS**”:

[ ]  ❶ onshore power supply (OPS)[ ]  ❷ LNG PowerPac[ ]  ❸ mobile LNG barge[ ]  ❹ LNG bunkering: truck to ship (TTS)[ ]  ❺ LNG bunkering: shore to ship[ ]  ❻ LNG bunkering: ship to ship (STS)[ ]  ❼ LNG bunkering: local liquefaction plant[ ]  ❽ alternative fuels[ ]  ❾ automated mooring systems[ ]  ❿ hybrid power train[ ]  ⓫ hybrid power train (plug-in hybrid)[ ]  ⓬ electrification of power train (battery or fuel cell) |



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| “**RENEWABLES**”: [ ]  ❶ obtain “green” energy[ ]  ❷ solar photovoltaics (PV)[ ]  ❸ wind power[ ]  ❹ hydropower[ ]  ❺ biogas[ ]  ❻ geothermal[ ]  ❼ microturbine |





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| * “**EFFICIENCY**”:

[ ]  ❶ energy / emission target[ ]  ❷ energy management system (EMS)[ ]  ❸ energy audits[ ]  ❹ smart grid applications[ ]  ❺ employee suggestion system[ ]  ❻ employee environment training[ ]  ❼ employee bus shuttle services[ ]  ❽ provision of bikes for commuting[ ]  ❾ bundling of power[ ]  ❿ cross-company use of waste heat[ ]  ⓫ heavy duty vehicle (HDV) emission control zone[ ]  ⓬ alternative HDV cooling: DTRU | [ ]  ⓭ alternative HDV cooling: grid feed[ ]  ⓮ green port fees[ ]  ⓯ slow steaming[ ]  ⓰ electrification of power train[ ]  ⓱ energy-saving tires[ ]  ⓲ tire pressure control[ ]  ⓳ regenerative drives[ ]  ⓴ emission control technologies (ECTs)[ ]  21 eco-driving lessons |

