Marine Energy Social and Economic Data Collection Toolkit – Instructions

The Marine Energy Social and Economic Data Collection Toolkit is an online, searchable database that presents metrics for understanding social and economic impacts that have been used for current and previous marine energy projects. For each metric, the tool includes the following information:

- Category: whether the metric is social, economic, or both
- Metrics: identified in a literature review with definitions
- Synonyms or related metrics: similar metrics. Click on the blue text to jump to that metric.
- Methods: in what ways these metrics can be or have been measured in the literature
- Examples from marine energy: marine energy papers that have assessed these metrics
- Examples from other relevant industries, relevant papers from other industries such as offshore wind, fisheries management or coastal development that have assessed these metrics
- Tools: examples of existing tools that can be used to measure or provide information on each metric

	Category	Metrics	Synonyms or related metrics	Methods	Examples from marine energy	Examples from other relevant industries	Tools
Whether the metric is economic, social, or both	Economic	capacity a non-static aspect describing the human, technical, economic, or social resources available in a community to participate	adaptation resilience	case study, comprehensive vulnerability framework, economic analysis, focus group, fuzzy logic model, geospatial analysis, industry research, interviews, observations, participatory methodologies, scenarios, social capital analysis, structural equation modeling, survey	Marine Energy Wales 2020, Kazimierczuk et al. 2023	Tull et al. 2016 @	AEDG Community Metric Explorer ∉

Category	Metrics	Synonyms or related metrics	Methods	Examples from marine energy	Examples from other relevant industries	Tools
Metric name and definition passed on iterature eview	capacity a non-static aspect describing the human, technical, economic, or social resources available in a community to participate	adaptation resilience	case study, comprehensive vulnerability framework, economic analysis, focus group, fuzzy logic model, geospatial analysis, industry research, interviews, observations, participatory methodologies, scenarios, social capital analysis, structural equation modeling, survey	Marine Energy Wales 2020, Kazimierczuk et al. 2023	Tull et al. 2016 €	AEDG Community Metric Explorer ₽

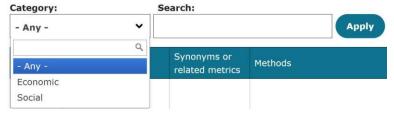
Category	Metrics	Synonyms or related metrics	Methods	Examples from marine energy	Examples from other relevant industries	Tools
The list clicked their re	r terms and metrics. ted metrics can be ton to bring the user to espective rows economic, or social resources available in a community to participate	adaptation resilience	case study, comprehensive vulnerability framework, economic analysis, focus group, fuzzy logic model, geospatial analysis, industry research, interviews, observations, participatory methodologies, scenarios, social capital analysis, structural equation modeling, survey	Marine Energy Wales 2020, Kazimierczuk et al. 2023	Tull et al. 2016 ₽	AEDG Community Metric Explorer ∉

Category	Metrics	Synonyms or related metrics	Methods	Examples from marine energy	Examples from other relevant industries	Tools
Economic	capacity a non-static aspect describing the human, technical, economic, or social resources available in a community to participate	Different ways of measuring the metric, derived from the literature	case study, comprehensive vulnerability framework, economic analysis, focus group, fuzzy logic model, geospatial analysis, industry research, interviews, observations, participatory methodologies, scenarios, social capital analysis, structural equation modeling, survey	Marine Energy Wales 2020, Kazimierczuk et al. 2023	Tull et al. 2016 🛭	AEDG Community Metric Explorer ₽

Category	Metrics	Synonyms or related metrics	Methods	Examples from marine energy		Examples from other relevant industries		Tools
	capacity a non-static aspect		case study, comprehensive vulnerability framework, economic analysis, focus			have used these in study is linked.		
Economic	describing the human, technical, economic, or social resources available in a community to participate	adaptation resilience	group, fuzzy logic model, geospatial analysis, industry research, interviews, observations, participatory methodologies, scenarios, social capital analysis, structural equation modeling, survey	Marine Energy Wales 2020, Kazimierczuk e al. 2023		Tull et al. 2016 &		AEDG Community Metric Explorer ₽

Category	Metrics	Synonyms or related metrics	Methods	Examples from marine energy	Examples from other relevant industries	Tools
Economic	capacity a non-static aspect describing the human, technical, economic, or social resources available in a community to participate	adaptation resilience	case study, comprehensive vulnerability framework, economic analysis, focus group, fuzzy logic model, geospatial analysis, industry research, interviews, observations, participatory methodologies, scenarios, social capital analysis, structural equation modeling, survey	Marine Energy Wales 2020, Kazimierczuk et al. 2023	Tools that use or measure these metrics from MRE or other related projects, from the literature. The tools are linked.	AEDG Community Metric Explorer &

At the top of the tool there is a filter with drop-down options to help narrow down your search. This filter includes the terms "Economic", "Social", and "Any". There is also an open search box to type in specific text to search. The search returns results that match <u>all words</u> in any of the displayed fields, so it is advised to limit searches to a single word or short phrase, and to try another search if no results are returned.



The online tool shows the main information available for each metric, however additional information is available by clicking on the reference links under the different columns. There are references available under the Examples and Tools columns.

For any remaining questions or difficulties with the tool, please contact deborah.rose@pnnl.gov.