



OUTC	OME EVALUATION STEPS
1	Define intended outcomes
2	Identify indicators, data sources, and collection methods
3	Gather evidence
4	Interpret results

Define intended outcomes	
changes or benefits resulting from project activities and outputs, especially changes in knowledge, skill, behavior, and social or economic conditions	

For evaluation purposes, outcome statements should be

specific about who will be affected and how

For evaluation purposes,	
outcome statements should	be

realistic

in relation to the scope and purpose of the project

Intended outcome

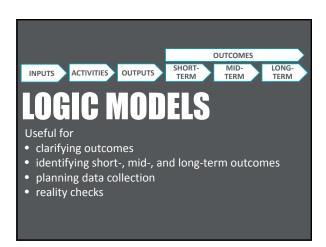
Specific, realistic statement about what is expected to **change** for individuals or groups other than the organization conducting the project

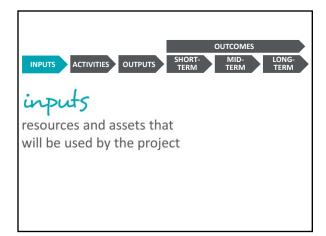
GOALS ≠ INTENDED OUTCOMES

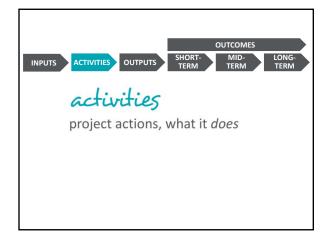


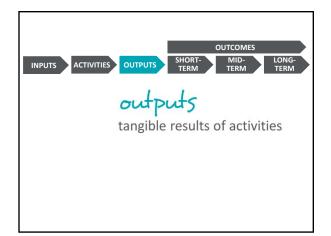


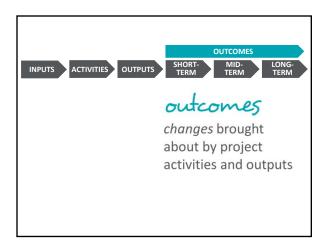
This project has the overarching goal of increasing awareness of opportunities in science, technology, engineering, and mathematics (STEM) disciplines for women and underrepresented minorities.



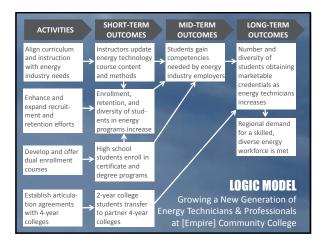


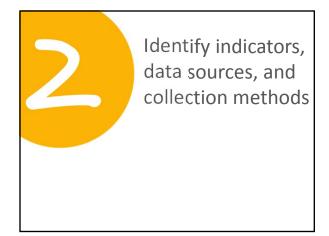






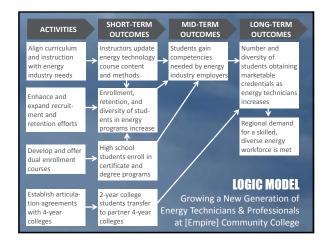






OUTCOME EVALUATION QUESTION 1: To what extent are faculty aligning their courses and teaching methods with identified energy industry needs? **DATA SOURCE & COLLECTION** INDICATOR METHOD Review of energy course syllabi by expert Degree of alignment of course content with competencies panel (before and after project) • Survey of enrolled students regarding perceptions of course content and learning Changes in teaching methods Comparison of energy course syllabi over time (pre and post project) by external • Interviews with faculty by external evaluator

OUTCOME EVALUATION OUESTION 3: To what extent are academic pathways being utilized by students? **DATA SOURCE & COLLECTION** INDICATOR METHOD Number and percentage of students • Survey of students in 2-year degree in 2-year programs who intend to programs, administered by faculty transfer to partner colleges Number and percentage of students • National Student Clearinghouse data who obtained 2-year degrees who enrolled in partner colleges Number of high school students in Institutional data dual enrollment courses Number and percentage of dual- Survey of dual-enrolled students, enrolled who intend to pursue degree administered by faculty and certificate programs Number and percentage of students • Institutional data obtaining dual credit who pursue



Gather evidence ✓ Communicate early and often with human data sources about the importance of their cooperation ✓ Ensure everyone understands their responsibilities related to data collection ✓ Pilot-test data collection instrument

4	Interpret results
	Compare data with ✓ Targets ✓ Rubrics ✓ Past performance

TARGETS from	r Cas	e, Obje	ectives 3.1-3.4
Indicator	Target	Result	Interpretation
Percentage of traditional- age students completing program	25%		
Number of veterans enrolled	5-10		
Percentage of women completing program	10%		
Percentage of underrepresented minority students completing program	10%		

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Indicator	Below Target	On Target	Above Target
Percentage of traditional- age students completing program	Less than 23%	23-27%	More than 27%
Number of veterans enrolled	Fewer than 5	5-10	More than 10
Percentage of women completing program	Less than 8%	8-12%	More than 13%
Percentage of underrepresented minority students completing program	Less than 8%	8-12%	More than 13%

RUBRIC To what extent and how has the project affected enrollment, retention, and DIVERSITY of the college's energy programs?						
Indicator	No or negligible extent	Minimal extent	Moderate extent	Great extent		
Percentage of traditional- age students completing program	12% or less (baseline)	13-19%	20-25%	26% or more		
Number of veterans enrolled	0	1-4	5-10	11 or more		
Percentage of women completing program	1% or less (baseline)	2-5%	6-10%	11% or more		
Percentage of under- represented minority students completing program	1% or less (baseline)	2-5%	6-10%	11% or more		

INDICATOR	DATA POINT FOR '15-16	EXCELLENT (5)	VERY GOOD (4)	GOOD (3)	FAIR (2)	POOR (1)
Percentage of annual evaluation survey respondents who agree or strongly agree that EvaluATE has improved their understanding of						
what should be included in an evaluation report	75%	90% or more	70%-89%	50%-69%	30-49%	29% or les
where to get information about evaluation	90%	90% or more	70%-89%	50%-69%	30-49%	29% or les
what NSF program officers expect from an evaluation	82%	90% or more	70%-89%	50%-69%	30-49%	29% or les
evaluation in general	83%	90% or more	70%-89%	50%-69%	30-49%	29% or les
how to incorporate evaluation into project planning	76%	90% or more	70%-89%	50%-69%	30-49%	29% or les
how to develop an evaluation plan	77%	90% or more	70%-89%	50%-69%	30-49%	29% or les
how to capture evidence of project impact	75%	90% or more	70%-89%	50%-69%	30-49%	29% or les
how to use evaluation results to inform project decision making	69%	90% or more	70%-89%	50%-69%	30-49%	29% or les
how to interpret results/draw conclusions	62%	90% or more	70%-89%	50%-69%	30-49%	29% or les

