

OUTCOME EVALUATION STEP	5
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1

Define intended outcomes

2

Identify indicators, data sources, and collection methods

3

Gather evidence

4

Interpret results



Ow	tcomes

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

Small group work

- 1. Review cards with real ATE project goals
- 2. Make notes about
 - how each goal does or does not fit the definition of an intended outcome
 - how they could be reframed as outcomes, if necessary

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

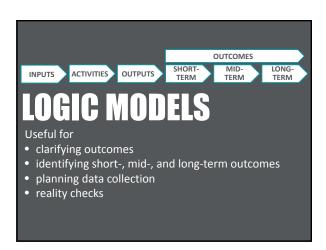


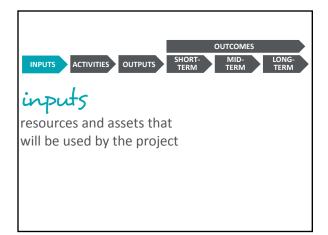


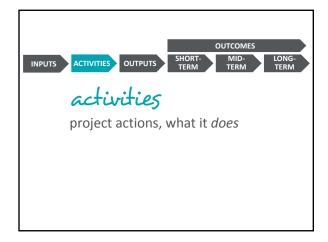


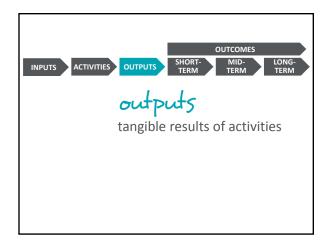


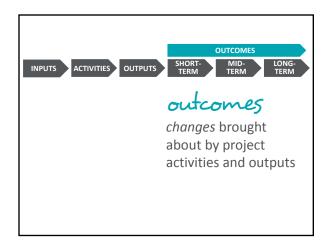
This project has the overarching goal of increasing awareness of opportunities in science, technology, engineering, and mathematics (STEM) disciplines for women and underrepresented minorities.



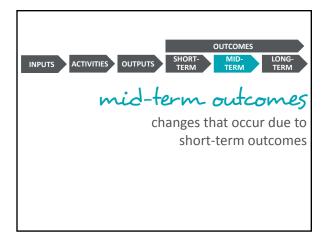


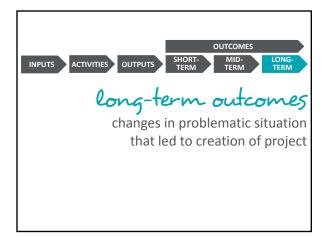




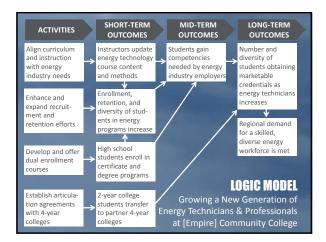


INDUTE ACTIVITIES QUITDUTS	DNG- ERM
short-term outcom immediate changes brought a by project activities and out	bout

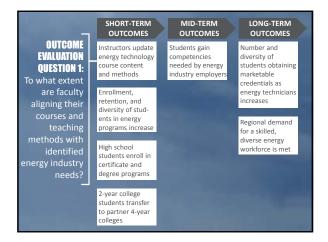


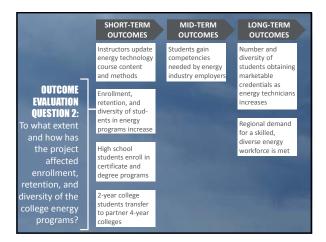


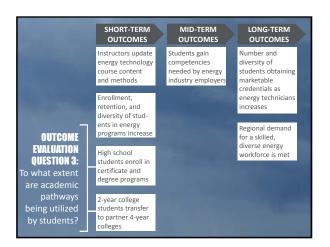


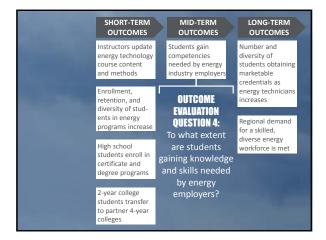


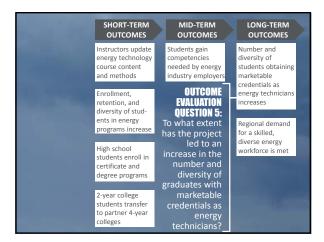












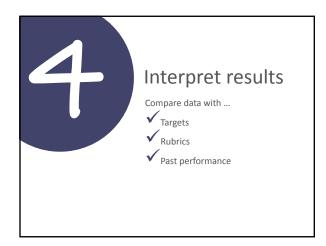
OUTCOME EVALUATION QUESTION 1: To what extent are faculty aligning their courses and teaching methods with identified energy industry needs? **DATA SOURCE & COLLECTION** INDICATOR **METHOD** Degree of alignment of course • Review of energy course syllabi by expert content with competencies panel (before 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 evaluator • Interviews with faculty by external evaluator

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

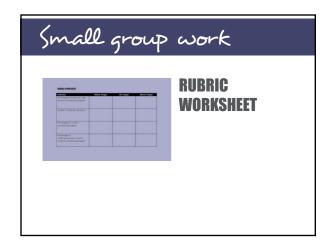
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NOME POSSIBLE DE SOUDERS IN Medical Control of the project field has become in the North Assembly Designation	number and discrete of graduates with market dis-	
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OUTCOME EVALUATION QUESTION 2: To what extent and how has the project affected enrollment, retention, and diversity of the college's energy programs?				
INDICATOR	DATA SOURCE & COLLECTION METHOD			

OUTCOME EVALUATION QUESTION 4: To what extent are students gaining knowledge and skills needed	
by energy employers? INDICATOR DATA SOURCE & COLLECTION METHOD	
DAIA SOURCE & COLLECTION METHOD	
OUTCOME EVALUATION QUESTION 5: To what extent has the project led to an increase in the number and diversity of graduates with marketable credentials as energy technicians?	
INDICATOR DATA SOURCE & COLLECTION METHOD	-
	-
Gather evidence ✓ Communicate early and often with human data sources about the	
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 instruments	

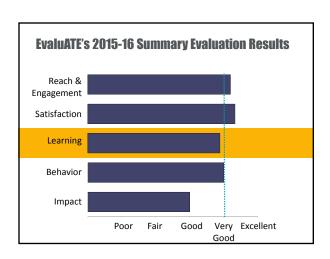


TARGETS from	n Ca	se, Obj	jectives 3.1-3.4
Indicator	Target	Result	Interpretation
Percentage of traditional- age students completing program	25%		
Number of veterans enrolled	5-10		
Percentage of women completing program	10%		
Percentage of underrepresented minority students completing program	10%		



RUBRIC To what extent and how has the project affected enrollment, retention, and DIVERSITY of the college's energy programs?					
Indicator	Below Target	On Target	Above Target		
Percentage of traditional- age students completing program					
Number of veterans enrolled					
Percentage of women completing program					
Percentage of underrepresented minority students completing program					

Real-world E.	xam	ple f	rom	Eval	uAT	E
INDICATOR	DATA POINT FOR '15-16	EXCELLENT (5)	VERY GOOD (4)	GOOD (3)	FAIR (2)	POOR (1)
Percentage of annual evaluation surv	ey respond	dents who ag	ree or strong	ly agree tha	t EvaluATE h	as 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



FINAL QUESTIONS?
Define intended outcomes
Identify indicators, data sources, and collection methods
Gather evidence
Interpret results

