

The background of the slide features a large, faint watermark of the Rutgers University seal. The seal is circular and contains the text "RUTGERS UNIVERSITY" around the perimeter and "STATE UNIVERSITY" at the bottom. In the center of the seal is a sunburst design.

RUTGERS

Edward J. Bloustein School
of Planning and Public Policy

Research Activities: Center for Energy, Economic and Environmental Policy

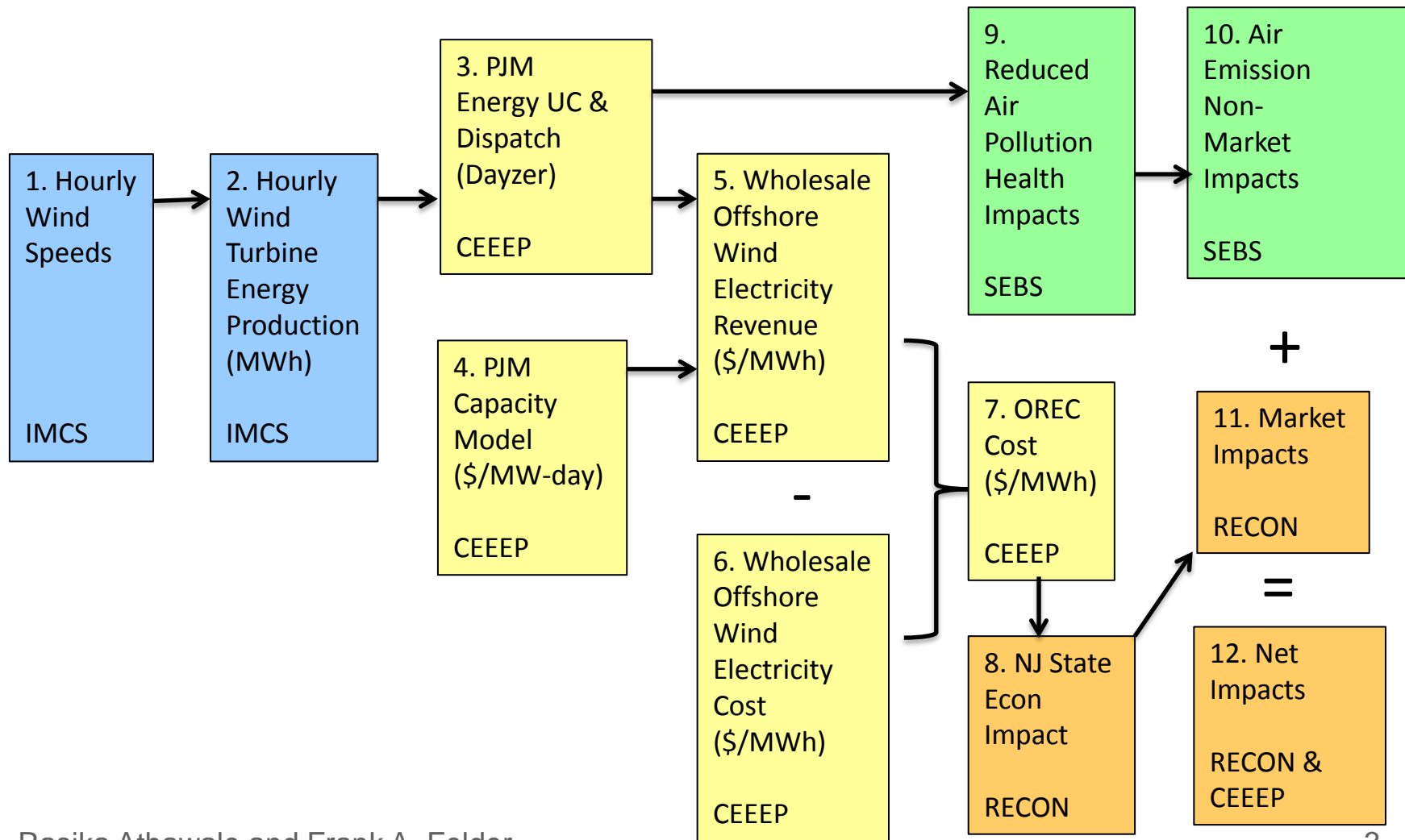
May 2015

Center for Energy, Economic and Environmental Policy,
Rasika Athawale and Frank A. Felder

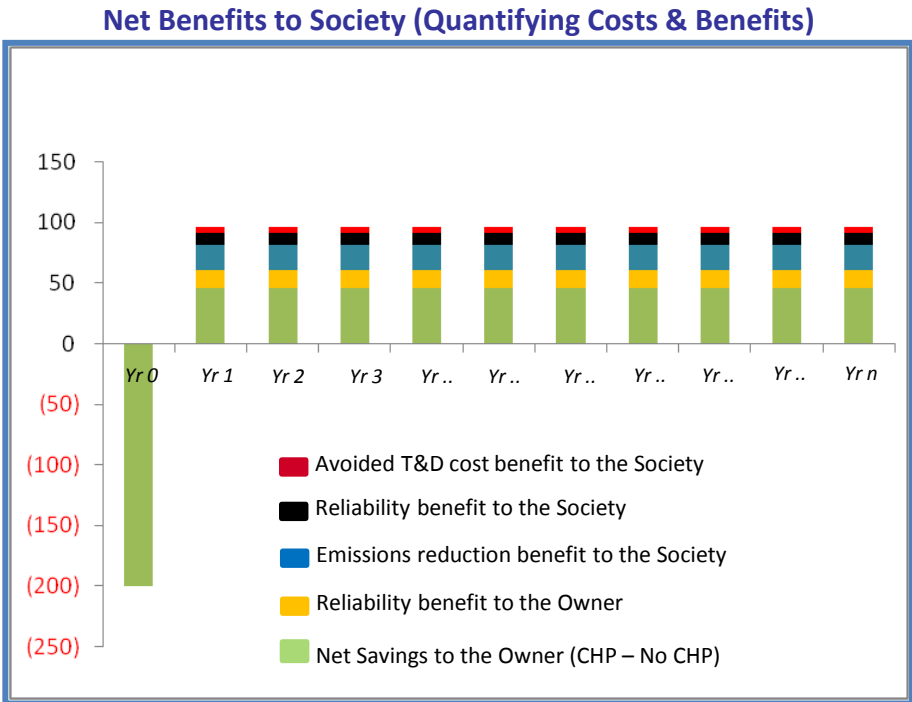
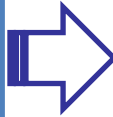
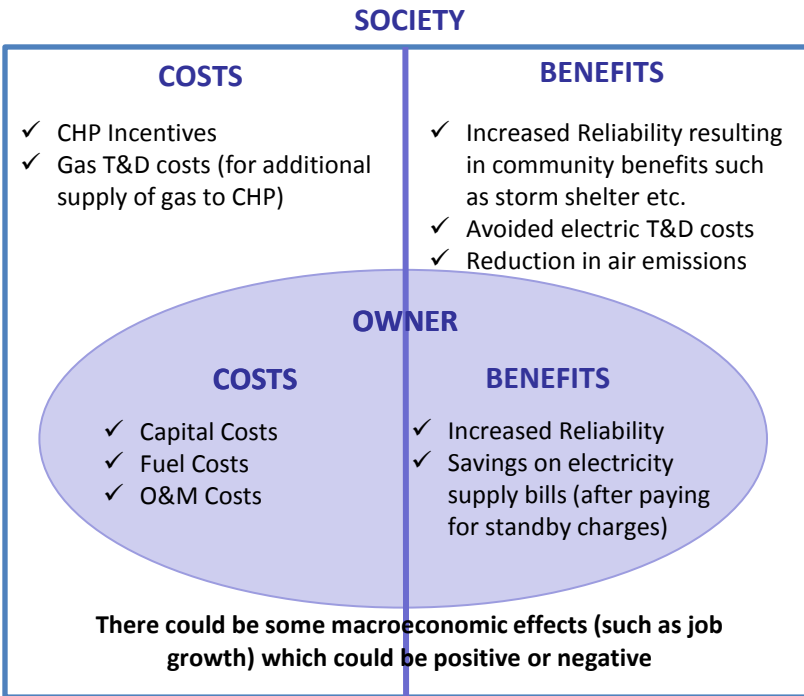
OVERVIEW OF RESEARCH ACTIVITIES

1. CEEEP integrates complex and sophisticated engineering, optimization and economic models to inform public policy regarding the implications of major public policy initiatives involving the electric power sector
2. On going projects include:
 1. Assessing the air quality, electricity price, and macroeconomic consequences of building large-scale off shore wind along the New Jersey coast
 2. Determining the social and private costs and benefits of distributed energy resources
 3. Evaluating the reliability and resiliency and the associated costs and benefits of grid hardening in the context of coastal power systems subject to severe weather

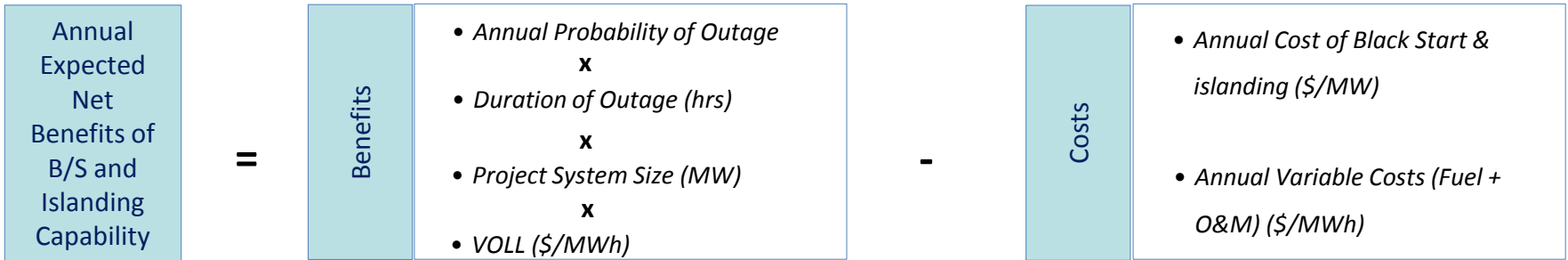
Offshore Wind Analysis: Integration of several technical and economic models



Cost-Benefit Analysis: Stylized Model for Combined Heat & Power Plant Application Screening



Reliability & Resiliency Studies: Building Data Sets and Quantifying Costs and Benefits



NPV of this annual expected net benefit can be allocated to project owner and society

Epistemic Uncertainty (uncertainty in our knowledge)

